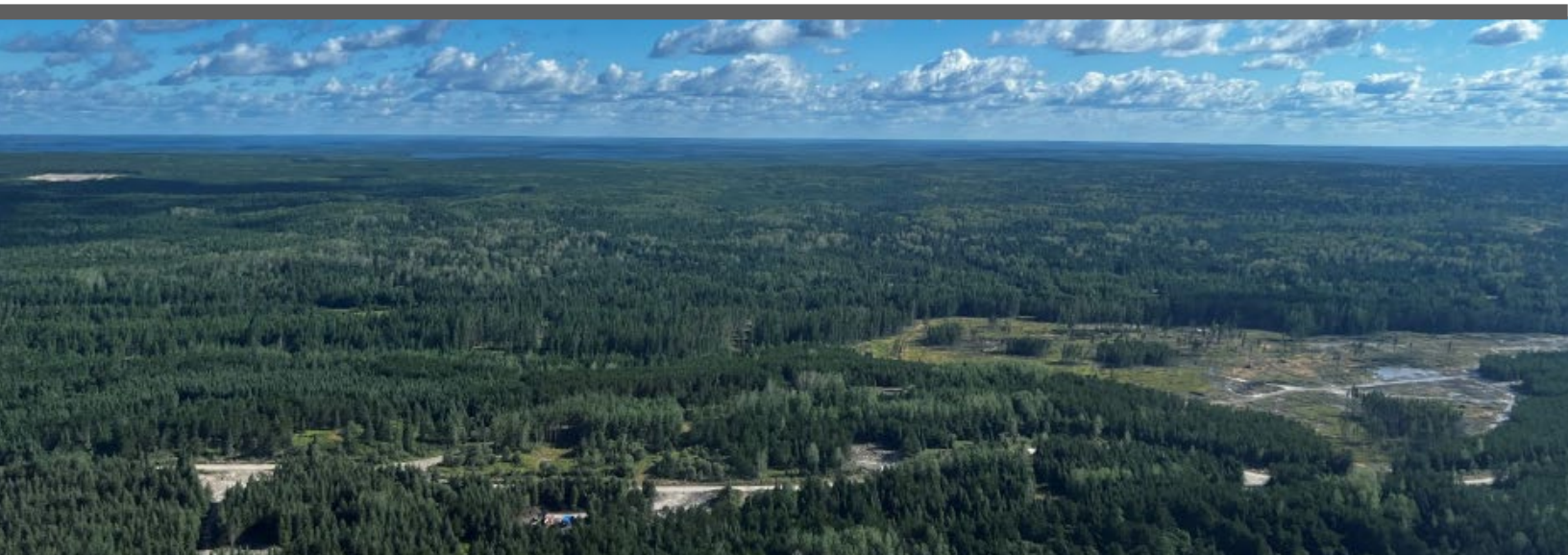
KINROSS Great Bear

# Great Bear Gold Project
# Impact Statement

## Appendix D-1:

### Air Quality Baseline Report



GREAT BEAR RESOURCES

# GREAT BEAR PROJECT

## FINAL AMBIENT AIR QUALITY BASELINE MONITORING REPORT

MARCH 2025

# GREAT BEAR PROJECT

## FINAL AMBIENT AIR BASELINE MONITORING REPORT

GREAT BEAR RESOURCES

PROJECT NO.: OMEMA2303
MARCH 2025

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# ABBREVIATIONS

| | |
|---|---|
| AAQC | Ontario Ambient Air Quality Criteria |
| ASTM | American Society for Testing and Materials |
| CAAQS | Canadian Ambient Air Quality Standards |
| CCME | Canadian Council of Ministers of the Environment |
| CO | Carbon monoxide |
| DPM | Diesel Particulate Matter |
| ECCC | Environment and Climate Change Canada |
| Hi-Vol | High Volume Sampler |
| Great Bear Resources | Great Bear Resources Ltd. |
| MECP | Ontario Ministry of the Environment, Conservation and Parks |
| NAPS | National Air Pollutant Surveillance |
| NIOSH | National Institute for Occupational Safety & Health |
| $NO_2$ | Nitrogen Dioxide |
| NO | Nitric Oxide |
| PAH | Polycyclic Aromatic Hydrocarbons |
| $PM_{2.5}$ | Particulate Matter less than 2.5 micrometres in diameter |
| $PM_{10}$ | Particulate Matter less than 10 micrometres in diameter |
| ppb | Parts per billion |
| PUF | Polyurethane Foam |
| $SO_2$ | Sulphur Dioxide |
| SPM | Suspended Particulate Matter |
| TD Tube | Thermal Desorption Tube |
| US EPA | United States Environmental Protection Agency |
| VOC | Volatile Organic Compound |
| $\mu g/m^3$ | Microgram per cubic metre |

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# 1 INTRODUCTION

## 1.1 PROJECT BACKGROUND

Great Bear Resources Ltd. (Great Bear Resources) a wholly owned subsidiary of Kinross Gold Corporation, is planning to develop, operate, and reclaim a gold mine (the Great Bear Project or Project) on the Great Bear Property (the Property). The Project is a high-grade deposit with a large exploration program ongoing. Currently, the Project is envisioned to have a high-grade open pit with potential for a longer term, sizable underground operation as well as an ore processing facility.

This Ambient Air Quality Baseline Monitoring Report is one of a series of documents prepared by WSP Canada Inc. (WSP) on behalf of Great Bear Resources to describe the baseline environmental conditions. The objective of the ambient air monitoring program is to characterize ambient air quality concentrations for the key parameters for which air emissions are anticipated from the Project, to establish baseline concentrations prior to mine development and operation.

This report is to provide a summary of the baseline air quality data collected between July 2022 and January 2025, in accordance with the Ambient Air Baseline Monitoring Plan (WSP 2023). Air quality is presented in comparison to Ministry of the Environment, Conservation and Parks (MECP 2023a) criteria; however, data related to elevated concentrations is presented only for informational purposes.

## 1.2 PROPERTY OVERVIEW

Baseline ambient air quality at the Property is influenced by natural and anthropogenic sources at the local and regional scales. Natural sources would include, but not be limited to, pollen from vegetation during spring and summer months and air pollutants associated with wildfires. Anthropogenic sources include road traffic, construction, building heating, wind-blown particulate from exposed area sources, mining and power generation activity in Red Lake, and contributions from transboundary or long-range transport of air contaminants.

With respect to the proposed future Project, the main sources of air emission during construction and operations would include fugitive dusts and Criteria Air Contaminants from fuel combustion.

The following communities are in the vicinity of Project:

- Red Lake (approximately 20 km to the northwest)
- Balmertown (approximately 20 km to the north)
- Ear Falls (approximately 40 km to the southeast).

Several fishing and hunting lodges, camps, dwellings, and a Provincial Park are also located in the vicinity of the Property.

See Figure 1-1 for a depiction of the Property location.

## 1.3 SCOPE OF WORK

This baseline air quality dataset for July 2022 to January 2025 includes the following components:

- A summary of the air monitoring and meteorological data collected at the Project site
- A summary of regional air quality and meteorological data, including that measured by Environment and Climate Change Canada (ECCC) at their National Air and Pollution Surveillance (NAPS) Network of stations (ECCC 2024).

The parameters sampled during the program are as follows:

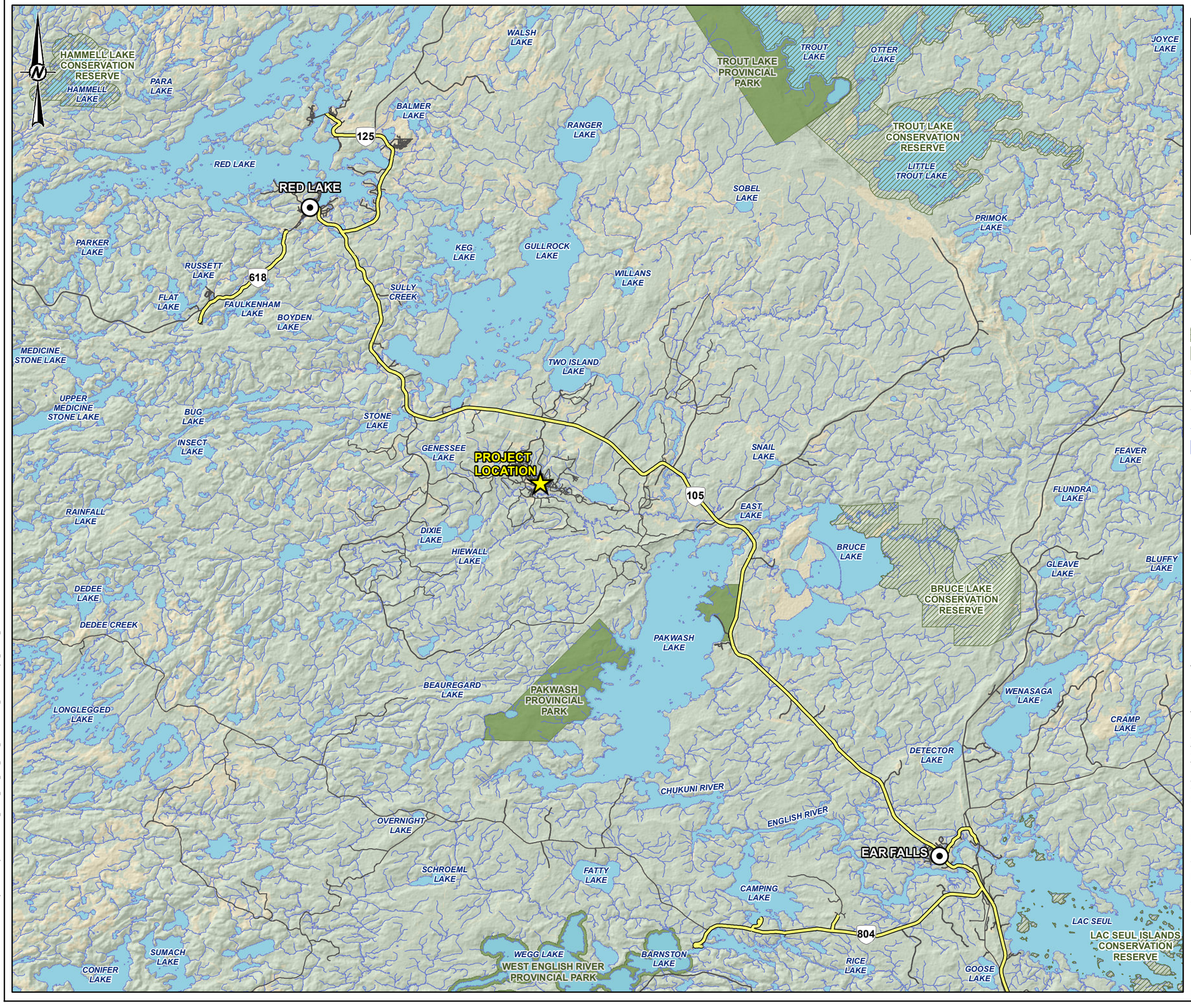
- Suspended particulate matter (SPM)
- Metals on the SPM size fraction
- Mercury vapour
- Particulate matter less than 10 micrometres in diameter ($PM_{10}$)
- Particulate matter less than 2.5 micrometres in diameter ($PM_{2.5}$)
- Volatile organic compounds (VOCs)
- Polycyclic aromatic hydrocarbons (PAHs)
- Diesel particulate matter (DPM)
- Nitrogen dioxide ($NO_2$)
- Sulphur dioxide ($SO_2$)
- Total dustfall.

## 1.4 REGULATORY CRITERIA AND GUIDELINES

The measured concentrations were compared to the respective MECP Ambient Air Quality Criteria (AAQC; MECP 2023a) and Canadian Ambient Air Quality Standards (CAAQS; CCME 2024).

The AAQC are established to be protective of potential effects on health, odour, vegetation, soiling, visibility, corrosion, or other effects; at concentrations below the AAQC adverse health and/or environmental effects would not be expected.

The CAAQS were developed as part of the Canadian Air Quality Management System. The CAAQS are not intended for the assessment of the effects of individual facilities at the fenceline, but rather, of ambient air quality at locations that are not overly influenced by specific industrial sources.




KEY MAP

SCALE 1:30,000,000

LEGEND

- PROJECT LOCATION
- TOWN
- CONSERVATION RESERVE
- PROVINCIAL PARK
- HIGHWAY
- LOCAL ROAD
- RESOURCE/ RECREATION ROAD
- WATERCOURSE
- WATERBODY

0 2.5 5 10

1:250,000 KILOMETRES

**NOTE(S)**

1. ALL LOCATIONS ARE APPROXIMATE

**REFERENCE(S)**

1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - ONTARIO
2. WATERCOURSES AND WATERBODY ACQUIRED FROM LAND INFORMATION ONTARIO (MNRF) AND MODIFIED TO MATCH AERIAL IMAGERY AND LIDAR.
3. ROADS INFORMATION PROVIDED BY KINROSS, AUGUST 2022.
4. COORDINATE SYSTEM: NAD 1983 UTM ZONE 15N

CLIENT
GREAT BEAR RESOURCES

PROJECT
GREAT BEAR PROJECT

TITLE
**PROJECT LOCATION**

CONSULTANT

wsp

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|---|---|
| YYYY-MM-DD | 2024-12-11 |
| DESIGNED | ---- |
| PREPARED | MD |
| REVIEWED | ---- |
| APPROVED | ---- |

| PROJECT NO. | CONTROL | REV. | FIGURE |
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# 2 MONITORING STATIONS

Three air quality monitoring stations have been established to measure local baseline air concentrations at the Project. Approximate installation times are noted as follows:

- Station 1 (Cell Towers): September 2022
- Station 2 (Tote Road): September 2022
- Station 3 (Unnamed Waterbody 1): June / July 2022.

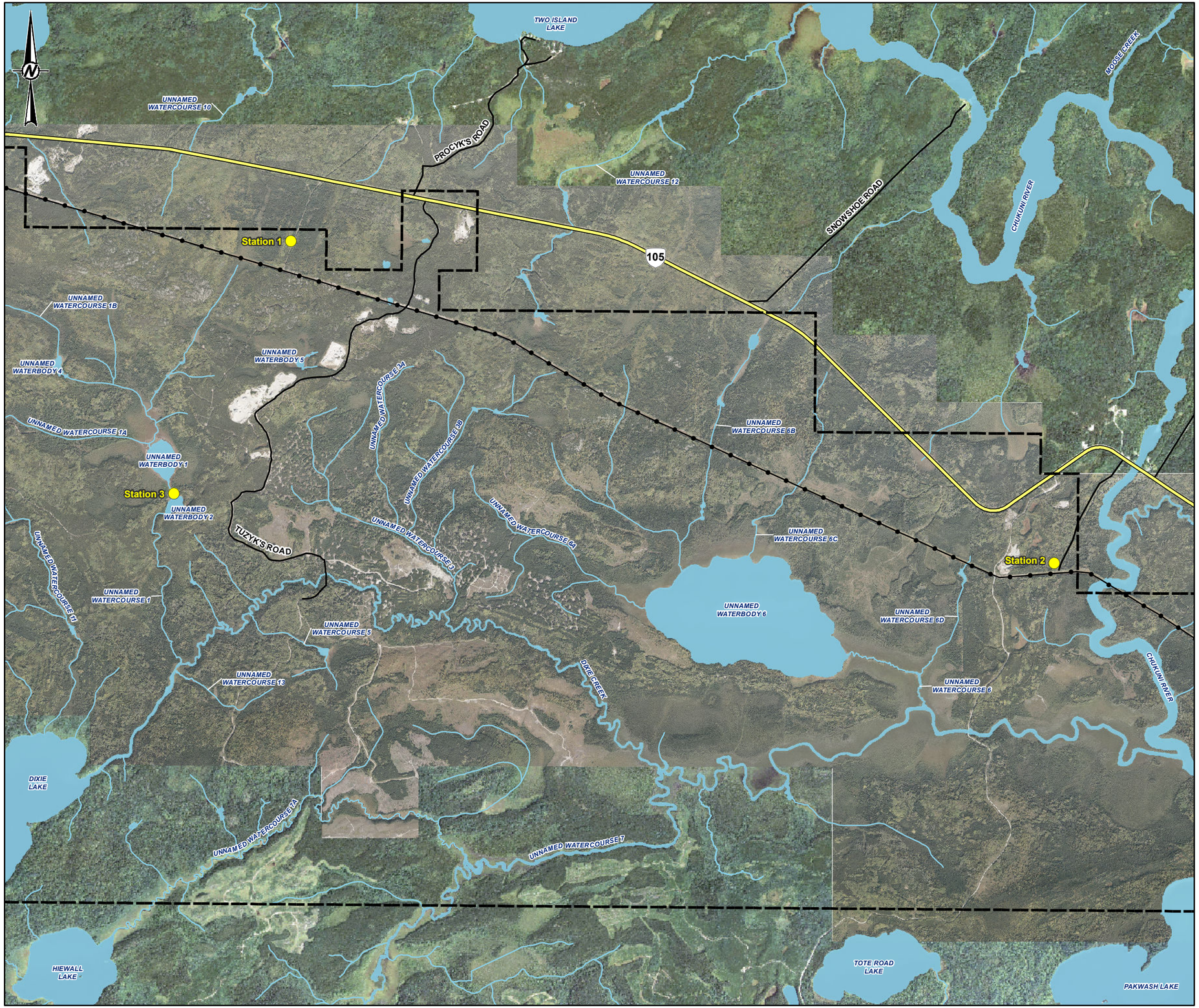
See Table 2-1 for station coordinates and parameters sampled with locations are shown in Figure 2-1. See Figures 2-2 through 2-4 for images of the sampling locations.

The monitoring locations were selected as per the Ambient Air Baseline Monitoring Plan (Rev 01) dated April 2023 (WSP 2023). Rationale for the selection of each location is provided below:

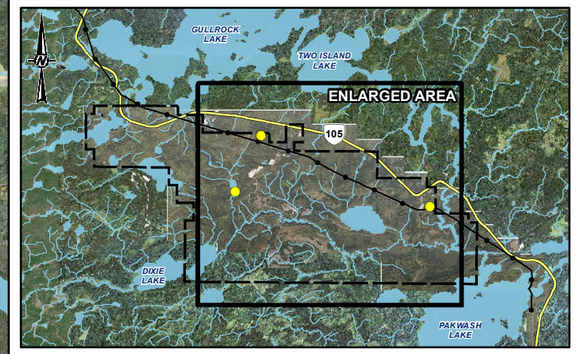
- Station 1: This location was selected as to be proximate to an electrical transmission line allowing the operation of grid-powered samplers, which is necessary for measurement of some parameters. Additionally, it is also located with significant setbacks from roads or other sources to minimize bias of measurements.
- Station 2: Selected to be representative of the private properties along the Chukuni River. Parameters measured here were selected that have health-based criteria ($PM_{2.5}$, nitrogen dioxide, sulphur dioxide).
- Station 3: Selected as a location central to where future operations are expected.

**Table 2-1: Location of Monitoring Stations and Monitored Contaminants**

| Station | General Location | Northing | Easting | Parameters to be Measured | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Discrete SPM / Metals / Mercury Vapour | Discrete PAHs | Continuous $PM_{10}$ | Continuous $PM_{2.5}$ | Discrete DPM | Discrete $PM_{10}$ / Silica | Discrete $PM_{2.5}$ | Dustfall | Continuous $NO_2$ | Continuous $SO_2$ | Passive $NO_2$ / $SO_2$ | VOCs (Summa Can and TD Tube) | Weather |
| 1 (Cell Towers) | Thunder Bay Mobility Tower | 5637832 | 455610 | X | X | | | | | | X | X | X | | | X |
| 2 (Tote Road) | Eastern 115 kV Corridor / Tote Road | 5634046 | 464319 | | | X | X | | | X | X | | | X | | |
| 3 (Unnamed Waterbody 1) | Unnamed Waterbody 1 | 5634889 | 454175 | | | X | X | X | X | | X | X | | X | X | X |




**KEY MAP**




SCALE 1:315,000

**LEGEND**

- PROPERTY BOUNDARY
- AIR QUALITY MONITORING LOCATION
- HIGHWAY
- LOCAL ROAD
- EXISTING TRANSMISSION LINE
- WATERCOURSE
- WATERBODY

0 0.5 1 2

1:45,000 KILOMETRES

**NOTE(S)**

1. ALL LOCATIONS ARE APPROXIMATE

**REFERENCE(S)**

1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - ONTARIO
2. AERIAL IMAGERY PROVIDED BY KINROSS (SCENE DATE: SEPTEMBER 2022).
3. PROPERTY BOUNDARY PROVIDED BY KINROSS, AUGUST 2024.
4. ROADS INFORMATION PROVIDED BY KINROSS, AUGUST 2022.
5. COORDINATE SYSTEM: NAD 1983 UTM ZONE 15N

CLIENT
GREAT BEAR RESOURCES

PROJECT
GREAT BEAR PROJECT

TITLE
# AIR QUALITY MONITORING LOCATIONS

CONSULTANT

wsp

| | |
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| YYYY-MM-DD | 2024-12-11 |
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| PREPARED | MD |
| REVIEWED | ---- |
| APPROVED | ---- |

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**Figure 2-2: Air Monitoring Station – Station 1 (Cell Towers)**

**Figure 2-3: Air Monitoring Station – Station 2 (Tote Road)**

**Figure 2-4: Air Monitoring Station – Station 3 (Unnamed Waterbody 1)**

# 3 SAMPLING APPROACH

## 3.1 AMBIENT AIR MONITORING

Great Bear Resources staff conducted the sample media changes, sample recovery, routine maintenance, and laboratory sample submission with support from WSP staff. WSP staff completed quarterly calibrations and maintenance.

### *3.1.1 SUSPENDED PARTICULATE MATTER*

SPM concentrations were measured at Station 1 using the standard gravimetric method with high volume (Hi-Vol) air samplers following the reference method cited in the MECP Operations Manual for Air Monitoring in Ontario (MECP 2023b).

SPM samples were collected from midnight to midnight on a 1-in-6-day sampling schedule that coincides with the standard NAPS sampling schedule (i.e., samples are collected for a continuous 24-hour period every 6 days).

The Hi-Vol actively samples at a rate of approximately 1,133 litres per minute (L/min) for a total sample volume of 1,632 $m^3$ over 24 hours. Samples were collected on quartz filters with analysis performed by reference Method IO-3.1. The quartz fibre filters have an approximate pore size of one micrometre and an average aerosol retention of 99.9% as per ASTM D 2986-95a (ASTM 1999).

### *3.1.2 METALS ON SUSPENDED PARTICULATE MATTER*

All SPM Hi-Vol filters collected were further analyzed, on a 1-in-6-day schedule, to determine the concentrations of the metal constituents. Inductively coupled plasma atomic emission spectroscopy, or other standard analytical methodology, is used for this analysis.

### *3.1.3 PARTICULATE MATTER <10 MICROMETRES*

Discrete $PM_{10}$ concentrations were measured at Station 3 using a Mesa Labs BGI PQ200 sampler following the reference method cited in the MECP Operations Manual. $PM_{10}$ samples were collected from midnight to midnight on a 1-in-6-day sampling schedule that coincided with the standard NAPS sampling schedule (i.e., samples are collected for a continuous 24-hour period every 6 days).

The PQ200 actively samples at a rate of approximately 16.7 L/min for a total sample volume of 24 $m^3$ over 24 hours. Samples were collected on PVC or Teflon filters with analysis performed by reference Method IO-3.1.

Equipment maintenance and calibration were carried out in accordance with the more stringent of the equipment manufacturer's operations manual and the MECP Operations Manual.

A near-reference Particle Profiler, demonstrating good precision and accuracy in the field when calibrated against reference methods was used to collect continuous $PM_{10}$ data (Table 3-1).

The particle profiler being used at Stations 2 and 3 was the Aeroqual Dust Sentry Pro/AQS1. Data collected by the particle profilers were compared to the discrete $PM_{10}$ data collected by the PQ200 at Station 3 to ensure accuracy and provide a correlation factor. The profiler operates and logs data continuously and has remote connectivity. The sampler is fitted with an inlet heater to help mitigate bias associated with high humidity. The manufacturer has tested units down to -40°C and concluded that the AQS operated adequately down to -40°C for short periods.

### 3.1.4 PARTICULATE MATTER <2.5 MICROMETRES

Discrete $PM_{2.5}$ concentrations were measured at Station 2 using a Mesa Labs BGI PQ200 sampler following the reference method cited in the MECP Operations Manual. $PM_{2.5}$ samples were collected from midnight to midnight on a 1-in-6-day sampling schedule that coincides with the standard NAPS sampling schedule (i.e., samples are collected for a continuous 24-hour period every 6 days).

The PQ200 actively samples at a rate of approximately 16.7 L/min for a total sample volume of 24 $m^3$ over 24 hours. Samples were collected on quartz or Teflon filters with analysis performed by reference Method IO-3.1. The quartz fibre filters have an approximate pore size of one micrometre and an average aerosol retention of 99.9% as per ASTM D 2986-95a (ASTM 1999).

Equipment maintenance and calibrations were carried out in accordance with the more stringent of the equipment manufacturer's operations manual and the Operations Manual.

The aforementioned particle profiler was used for continuous $PM_{2.5}$ measurements at Stations 2 and 3. Data collected by the particle profilers was compared to the discrete $PM_{2.5}$ data collected by the PQ200 at Station 2 to ensure accuracy and provide a correlation factor.

### 3.1.5 TOTAL DUSTFALL

Dustfall samples were collected using standard passive dustfall jars at each of three sample locations. The exposed sampling period is 30-days (±3 days). The Standard Method for the Collection and Analysis of Settleable Particulate, as suggested by ASTM Method D1739-98 (2017) was followed. The water soluble and insoluble portions of dustfall were determined using ASTM method D-1739-98 or the MECP method DF-E3043A.

Beginning in April 2024, metals analyses were added to the dustfall samples using EPA Methods 6020B and 7470A.

### 3.1.6 SILICA

Respirable silica was measured by a modified NIOSH 7500 method, using the low-volume $PM_{10}$ PQ200. Air is drawn through the $PM_{10}$ sampler onto a 47 mm PVC filter (during the silica sampling the quartz filters were switched to PVC). Approximately 24 $m^3$ was collected over a 24-hr sample period which achieves a minimum detection limit of 0.4 $\mu g/m^3$ (<10% of the AAQC).

### 3.1.7 NITROGEN DIOXIDE

Continuous $NO_2$ data were recorded by near-reference AQM65 and AQS1 monitors at Stations 1 and 3, respectively. These monitors use a gas sensitive semiconductor sensor with a tuned microstructure for $NO_2$ detection. The air is actively sampled by pump and travels through a glass and Teflon coated inlet system to the analyzer module. A thermal scrubber removes the effect of ambient ozone and a zero cycle compensates for sensor drift and interference effects from humidity and VOCs. The AQM65 at Station 1 was heated and is fitted with a calibration system for increased accuracy and precision.

Passive air monitors for $NO_2$ were deployed at Stations 2 and 3 in order to monitor monthly mean concentrations. The passive monitors were handled and analyzed in accordance with the methodology stipulated by Bureau Veritas for a Passive Air Sampling System. The samples were shipped in a re-sealable plastic bag as supplied with the sampler, and protective container with Teflon liner. The passive $NO_2$ monitors were exposed at the beginning of each month for a sampling period of 30 days (+/-3 days).

### 3.1.8 SULPHUR DIOXIDE

At Station 1 continuous data were recorded by a near-reference monitor which uses gas sensitive electrochemical sensors which incorporate next generation electrochemical cells with nanocatalyst coated working electrodes that provide higher sensitivities. The lowest possible detection limits are achieved by proprietary signal processing, integration of a zero-cycle scrubber, and maintaining a constant enclosure temperature.

Passive air monitors for $SO_2$ were deployed at Stations 2 and 3 in order to monitor monthly mean concentrations. The passive monitors were handled and analyzed in accordance with the methodology stipulated by Bureau Veritas for a Passive Air Sampling System. The samples were shipped in a re-sealable plastic bag as supplied with the sampler, and protective container with Teflon liner. The passive $SO_2$ monitors were exposed at the beginning of each month for a sampling period of 30 days (+/- 3 days).

### 3.1.9 VOLATILE ORGANIC COMPOUNDS

Passive sampling for VOCs used both EPA Method 325 thermal desorption tubes and Summa Cannisters in accordance with EPA Method TO-15.

EPA Method 325 method involves setting up and exposing the TD tubes for 14-day periods. Following exposure, the tubes are thermally desorbed and analyzed using low-level gas chromatography mass spectrometry which allows for industry-leading detection limits. Sampling was initiated at Station 3 in July 2022 and was moved to Station 1 in July 2023 to avoid potential bias from vehicular traffic.

The 24-hour VOC sampling method is comprised of evacuated cannisters (SUMMA Cannisters) in accordance with United States Environmental Protection Agency (US EPA) Method TO-15. Six litre SUMMA Cannisters are fitted with 24-hour flow regulators and will sample approximately one sample per month for the duration of the program. Sampling was initiated at Station 3 in October 2022 and sampling was moved to Station 1 in July 2023 to avoid potential bias from vehicular traffic.

### 3.1.10 POLYCYCLIC AROMATIC HYDROCARBONS

Beginning in November 2022 at Station 1, a high-volume Polyurethane Foam (PUF) sampler was used in accordance with US EPA Method TO-13A to measure PAHs.

PAH samples were collected from midnight to midnight on a 1-in-12-day sampling schedule that coincided with the standard NAPS sampling schedule (i.e., samples are collected for a continuous 24-hour period every 12 days).

The PUF sampler was set to run at its highest flow rate to reduce detection limits

### 3.1.11 DIESEL PARTICULATE MATTER

DPM was measured, using a modified NIOSH 5040 method for elemental carbon. This method samples at 4 L/min using a 37 mm quartz filter cassette. Flame ionization or other standard analytical methodology was used for this analysis.

Sampling was initiated in June 2023 and samples were collected to reflect seasonal variability.

### 3.1.12 MERCURY VAPOUR

Mercury vapour was sampled with NIOSH method 6009, which uses a filter and sorbent tube to measure both gaseous and particulate mercury fractions.

Sampling was initiated in September 2024 and continued to January 2025.

### 3.1.13 METEOROLOGICAL STATION

At Station 1, a 10 metre high meteorological tower is connected to a Campbell Scientific CR1000X datalogger to record wind speed and direction, barometric pressure, humidity, precipitation, evaporation, temperature, and solar radiation logging at five minute intervals.

At Station 3, the continuous monitor is fitted with a Vaisala meteorological sensor which measured wind speed, wind direction, temperature, and pressure.

## 3.2 PUBLISHED AIR QUALITY DATA

Existing published air quality data were obtained from the NAPS Network (ECCC, 2024). The NAPS Network operates monitoring stations across Canada. The Network reports background air chemistry data that is collected for: various gases, PM, as well as various VOCs and semi-volatile organic compounds. The closest relevant NAPS stations to the site are located in Experimental Lakes Area and Thunder Bay, Ontario and Winnipeg, Manitoba. See Table 3-2 for information regarding the NAPS stations, and Figure 3-1 for their locations.

Ozone ($O_3$) concentrations measured by the NAPS network from the closest station have been included in this report. Releases of ozone are not expected from mining operations; however, ozone data are used to estimate the extent of atmospheric conversion of NO to $NO_2$.

## 3.3 QUALITY ASSURANCE AND QUALITY CONTROL PROTOCOLS

The ambient air quality monitoring program was carried out in accordance with defined quality assurance and quality control (QA/QC) protocols to ensure that the basic elements outlined in the MECP Operations Manual are adhered to, which include:

- Strategic site selection to minimize interferences and obstacles that may affect airflow
- Sampling system requirements
- Site and analyzer operation
- Frequency of sampler flow checks and equipment calibrations
- Performance and system audits
- Data validation, editing, and reporting
  - A quality control protocol for comparing continuous $NO_2$ and $SO_2$ concentrations to passive concentrations to qualify lower detection limits that are not more than 10 times below the AAQC
- Documentation of field notes
- Personnel training.

Field staff were trained in the operation of the air monitoring equipment, sample recovery, transport, and shipment to the laboratory.

Blank discrete filters and passive sample cassettes were submitted to the laboratories for analysis on a routine basis. For the passive samplers, one duplicate of $NO_2$ or $SO_2$ samples were sent to the lab each month, as well as a travel blank.

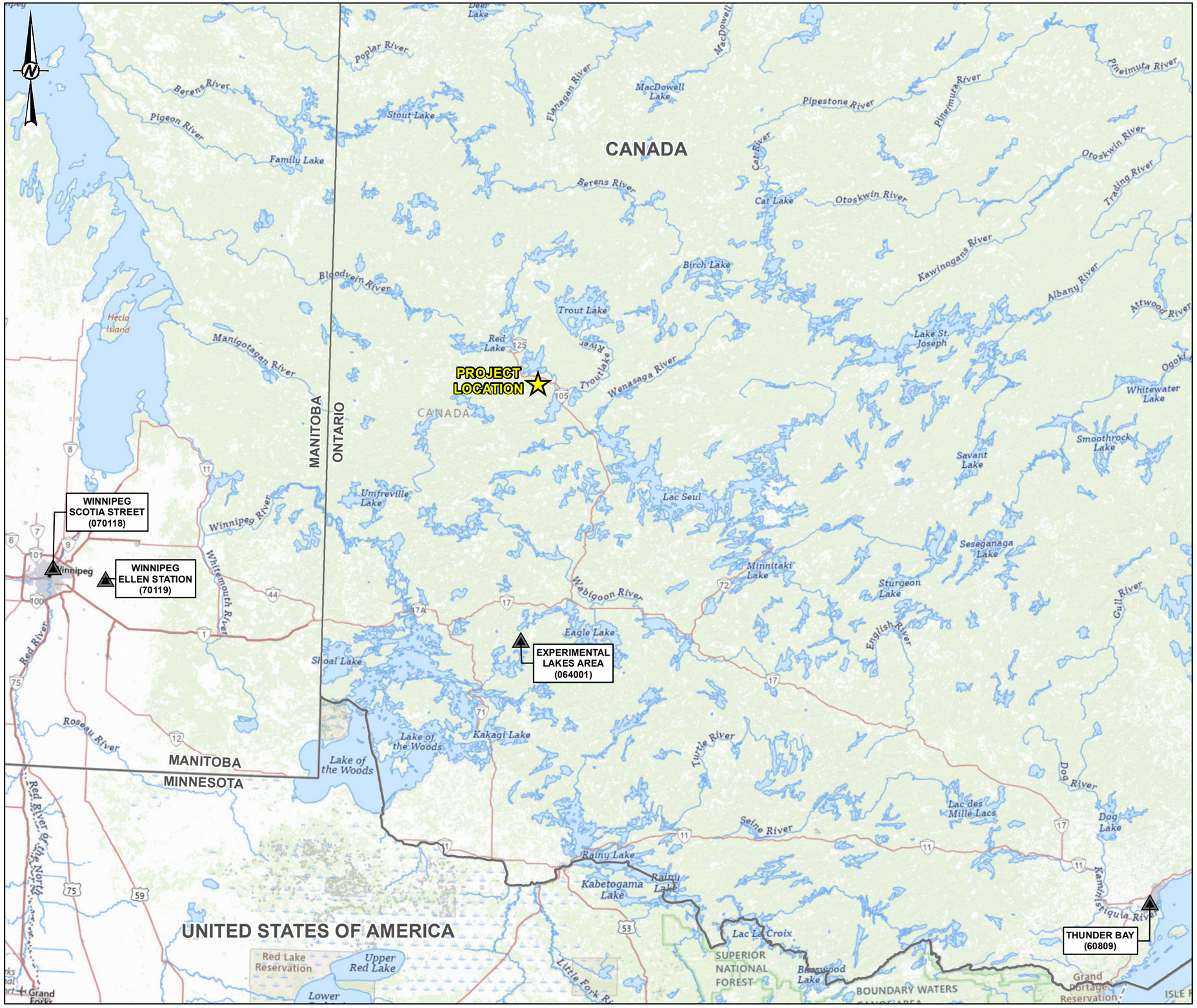
The laboratories followed their internal QA/QC protocols that may include tasks such as spiked sample recovery and duplicate analysis of some samples for the metals analyses.

**Table 3-1: Specification of the Aeroqual Particle Counter**

| Particle Module | Sizes | Range | Resolution | Lower Detectable Limit | Accuracy |
|---|---|---|---|---|---|
| Profiler (Optical Particle Counter) | $PM_1$, $PM_{2.5}$, $PM_{10}$, and TSP | $PM_1$ 200 µg/m$^3$<br>$PM_{2.5}$ 2000 µg/m$^3$<br>$PM_{10}$ 5000 µg/m$^3$<br>TSP 5000 µg/m$^3$ | 0.1 µg/m$^3$ | <1 µg/m$^3$ | +/- (5 µg/m$^3$<br>+15% of reading) |

**Table 3-2: NAPS Monitoring Station Locations**

| Station | Station ID | Latitude | Longitude | Approximate Distance from Property (km) | Relevant Contaminants Measured |
|---|---|---|---|---|---|
| Thunder Bay | 060809 | 48.3794 | -89.2902 | 420 | $SO_2$, $O_3$, $PM_{2.5}$ |
| Experimental Lakes Area | 064001 | 49.6639 | -93.7211 | 135 | $O_3$ |
| Winnipeg – Scotia Street | 070118 | 49.9321 | -97.1132 | 270 | $NO_2$, NO, $O_3$, $PM_{2.5}$ |
| Winnipeg – Ellen Street | 070119 | 49.8980 | -97.1465 | 270 | $SO_2$, $NO_2$, NO, $O_3$, $PM_{2.5}$ |




**LEGEND**

- PROJECT LOCATION
- REGIONAL AMBIENT AIR MONITORING STATION

0 25 50 100

1:2,000,000 KILOMETRES

**NOTE(S)**

1. ALL LOCATIONS ARE APPROXIMATE

**REFERENCE(S)**

1. TOPOGRAPHIC BASEMAP: USGS THE NATIONAL MAP: NATIONAL BOUNDARIES
2. COORDINATE SYSTEM: NAD 1983 UTM ZONE 15N

CLIENT
GREAT BEAR RESOURCES

PROJECT
GREAT BEAR PROJECT

TITLE
**REGIONAL AMBIENT AIR MONITORING STATIONS**

CONSULTANT

wsp

| | |
|---|---|
| YYYY-MM-DD | 2025-01-10 |
| DESIGNED | ---- |
| PREPARED | MD |
| REVIEWED | ---- |
| APPROVED | ---- |

| PROJECT NO. | CONTROL | REV. | FIGURE |
|---|---|---|---|
| OMEMA2303 | 0001 | A | 3-1 |

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

PATH: X:\CA\CAOAK300-OAKMIS-FS1-Projects$\2023\Projects\OMEMA2303_Kinross_Great_Bear_Env\7_GIS\AirBaseline_2024\MXD\Regional_Ambient_Air_Stations_2.mxd PRINTED ON: 2025-01-10 AT: 1:07:13 PM

# 4 AIR QUALITY DATA SUMMARY

Statistical summaries of the data collected at the baseline stations were prepared in accordance with the MECP Operations Manual for Air Monitoring in Ontario. The relevant air quality criteria are also provided, which include the federal CAAQs and the Ontario AAQC.

Data summary plots are provided in Appendix A and the complete set of results is included in Appendix B for the discrete data. The laboratory raw data with analytical methodologies and detection limits are included in the Appendix C laboratory reports.

For the purpose of performing statistical analyses, and in keeping with a commonly accepted practice, a value of half the detection limit was substituted for concentrations less than the detection limit.

Continuous data were summarized from the raw 1-minute data and hourly means were calculated by averaging the 1-minute data in accordance with the MECP 75% minimum validity requirement.

Site-specific correlation factors were developed from the discrete $PM_{10}$ and $PM_{2.5}$ data which were used to correct the continuous $PM_{2.5}$ and $PM_{10}$ data per manufacturer guidance.

## 4.1 SUSPENDED PARTICULATE MATTER

The SPM sampler was operated at Station 1 from September 2022 to August 2024. A total of 115 SPM discrete samples were collected, with a 90$^{th}$ percentile concentration of 21.4 µg/m$^3$, a geometric mean of 4.5 µg/m$^3$, and an arithmetic mean of 8.0 µg/m$^3$. The 90$^{th}$ percentile was 18% of the 24-hour AAQC of 120 µg/m$^3$. At the beginning of the sampling program the sampler flow rate experienced deviances from the minimum flow rate however these were included in the summary statistics for completeness and when comparing data from 2022 to 2023 there was no meaningful difference.

In terms of seasonal variation, SPM concentrations were generally higher in the summer than in winter, see the plot Figure 4-1. No concentrations above the 24-hour AAQC of 120 µg/m$^3$ were measured.

A summary of the SPM sampling results is provided in Table 4-1.

A box plot, depicted as Figure A-1 in Appendix A, shows the data distribution of the three size fractions of particulate.

## 4.2 METALS ON SUSPENDED PARTICULATE MATTER

Metallic analysis was performed on each SPM filter, with the majority of the metals present in concentrations below the laboratory's detection limit. Notably, arsenic, cadmium, chromium, cobalt, nickel, and mercury were detected at most one time above the detection limit over the entire program.

Statistics for the metal concentrations are displayed in Table 4-2. Box plots, time-series plots, and histograms are also depicted in Appendix A as Figures A-2, A-3, and A-4.

## 4.3 FINE PARTICULATE MATTER <10 MICROMETRES

The discrete $PM_{10}$ sampler was operated at Station 3 from June 2022 to August 2024. The sampler was temporarily moved from Station 3 to Station 1 in the winter of 2023, at which point it temporarily operated on a three-day sample schedule. A total of 134 $PM_{10}$ discrete samples were analyzed, a small number were invalidated due to sample volume variances. The 90$^{th}$ percentile concentration was 18.3 µg/m$^3$ and the arithmetic mean was 9.6 µg/m$^3$. The 90$^{th}$ percentile was 37% of the 24-hour Interim AAQC of 50 µg/m$^3$. Four concentrations above the 24-hour Interim AAQC of 50 µg/m$^3$ were measured, two in May 2023, one in August 2023, and one in September 2023. A small number of collected samples were ineligible for analysis due to insufficient sample volumes. See Figures 4-1 and A-1.

Additionally, $PM_{10}$ was measured continuously at Stations 2 and 3.

At Station 2 the continuous $PM_{10}$ sampler operated from September 2022 to May 2024, with the following notable data gap resulting from power failure:

- No data from November 25, 2022 to May 15, 2023.

At Station 3 the continuous $PM_{10}$ sampler operated from June 2022 to May 2024, with the following notable data gaps resulting from power failure:

- No data from June 22, 2022 to August 24, 2022
- No data from December 9, 2022 to March 9, 2023.

There were additional minor data losses that are not mentioned above.

To address these gaps, Great Bear Resources were able to enhance the power supply system to these monitors, resulting in improved uptime in late 2023 when comparing to the winter of 2022/2023. The overall length of time of the program was extended to collect additional information and accommodate the unexpected power failure.

For the continuous data, the 90$^{th}$ percentile $PM_{10}$ concentration was 16.2 µg/m$^3$ at Station 2 and 28.2 µg/m$^3$ at Station 3, the arithmetic means for the total sampling period were 7.2 µg/m$^3$ and 10.7 µg/m$^3$, respectively.

Several concentrations above the 24-hour $PM_{10}$ AAQC were measured during the summer of 2023 (seven at Station 2 and 21 at Station 3). Concentrations were higher in the summer than in winter as illustrated in Table 4-5.

A reduction in data collection in the winter months of 2022-2023 as well as influence from wildfires in the summer of 2023 likely contributed to elevated concentrations. A summary of the measured discrete and continuous $PM_{10}$ concentrations is provided in Table 4-3. The continuous data are presented visually in Figure 4-2.

## 4.4 FINE PARTICULATE MATTER <2.5 MICROMETRES

The discrete $PM_{2.5}$ sampler was operated at Station 2 from September 2022 to June 2024. The sampler was temporarily moved from Station 2 to Station 1 in the winter of 2023, when it was temporarily operated on a three-day sample schedule. In June 2024 it was moved to Station 1 until it was decommissioned in August 2024. A total of 107 $PM_{2.5}$ discrete samples were collected, with a 90$^{th}$ percentile concentration of 10.0 µg/m$^3$ and an arithmetic mean of 5.8 µg/m$^3$. The 90$^{th}$ percentile was 37% of the 24-hour AAQC of 27 µg/m$^3$. Two concentrations above the 24-hour AAQC of 27 µg/m$^3$ were measured, one on August 17, 2023 and one on September 3, 2023 which were likely influenced by the significant 2023 wildfire season.

The continuous $PM_{10}$ samplers at Stations 2 and 3 were also capable of simultaneously measuring $PM_{2.5}$. The aforementioned notes regarding downtime mentioned in Section 4.3 are applicable to the $PM_{2.5}$ sampling. The 90$^{th}$ percentile $PM_{2.5}$ concentration was 14.7 µg/m$^3$ at Station 2 and 21.7 µg/m$^3$ at Station 3, the arithmetic means for the total sampling period were 6.4 µg/m$^3$ and 8.7 µg/m$^3$, respectively. Station 2 measured 14 concentrations above of the 24-hour AAQC while Station 3 measured 35 concentrations above the 24-hour AAQC between May and September 2023 which were likely influenced by the significant wildfire season. No other elevated 24-hour were measured.

A reduction in data collection in the winter months of 2022/2023 as well as influence from wildfires in the summer of 2023 likely contributed to elevated concentrations.

A summary of the $PM_{2.5}$ sampling results is provided in Table 4-4. These data are presented visually in Figures 4-1 and 4-3.

## 4.5 TOTAL DUSTFALL

Dustfall samples were initially taken in July 2022 at Station 3 (Unnamed Waterbody 1) and progressively began sampling at the other stations as they became commissioned. Dustfall sampling was discontinued at Station 2 in May 2024. While Great Bear Resources may continue to operate the remaining dustfall stations, this baseline study concluded in January 2025.

All monthly dustfall values were below the respective AAQC of 7 g/m$^2$/30-days. The arithmetic mean was 0.98 g/m$^2$/30-day across the entire at the Project Site, while the corresponding 90$^{th}$ percentile value was 2.4 g/m$^2$/30-day which correlates to 34% of the AAQC.

The dustfall results are summarized in Table 4-7 and presented visually in Figure 4-4.

The dustfall samples were analyzed for metals beginning in April 2024. Notably, mercury was not detected in any of the 17 samples. Metallic deposition results are summarized in Table 4-8.

## 4.6 SULPHUR DIOXIDE AND NITROGEN DIOXIDE

Passive $NO_2$ and $SO_2$ sampling was initialized in July 2022 at Station 3 (Unnamed Waterbody 1) and progressively began sampling at the other stations as they became commissioned. Measured concentrations of $NO_2$ and $SO_2$ were either extremely low or non-detect. These results are consistent with regional background concentrations.

The continuous $NO_2$ monitor operated at Station 1 from September 2022 to July 2024, with down periods for power loss, maintenance, repairs, etc., measuring a maximum hourly concentration of 25.3 ppb and an arithmetic mean for the period of 0.4 ppb. In total, 14218 sampling hours were measured.

The continuous $SO_2$ monitor operated at Station 1 from September 2022 to July 2024, with down periods for power loss, maintenance, repairs, etc., measuring a maximum 10-minute concentration of 17.9 ppb and an arithmetic mean for the period of 0.4 ppb. In total, 13923 sampling hours were measured.

Significant down periods for the Station 1 continuous monitor included December 19, 2022 to January 16, 2023 due to a power failure, and June 8, 2023 to July 17, 2023 due to equipment maintenance and repair.

The continuous $NO_2$ monitor operated at Station 3 from June 2022 to May 2024, with down periods for power loss, maintenance, repairs, etc., measuring a maximum hourly concentration of 19.5 ppb and an arithmetic mean for the period of 0.3 ppb. In total, 10647 sampling hours were measured.

The continuous $NO_2$ data are summarized in Table 4-9, the continuous $SO_2$ data are summarized in Table 4-10, and Table 4-11 summarizes the passive $NO_2$ and $SO_2$ data collected. The continuous data are summarized in Figures 4-5 and 4-6.

## 4.7 VOLATILE ORGANIC COMPOUNDS

From June 2022 to June 2024, 22 passive (Method TO-15) 14-day VOC samples were collected. Additionally, 25 passive (Method 325) 24-hour VOC samples were collected. Most VOC concentrations were below the detection limit.

A summary of the data collected for select VOCs is presented in Table 4-12 and Table 4-13. The 14-day day averaged VOC samples were converted to 24-hour averages using the methodology indicated in Guideline A-10: Procedure for Preparing an Emission Summary and Dispersion Modelling Report (MECP 2023c). The entire VOC data summary is included in Appendix B. The data are presented visually in Appendix A, Figures A-5 through A-8.

## 4.8 RESPIRABLE SILICA

Respirable silica was sampled for at Station 3 beginning in June 2022 and continued to August 2024. The analytes were cristobalite, quartz, and tridymite forms of silica.

A modified NIOSH method 7500 employing a BGI PQ200 was used to achieve lower detection limits than the standard NIOSH method by increasing the sample volumes collected. A total of 28 silica samples were obtained during the sample period. Quartz had the highest 90$^{th}$ percentile concentration for a silicate mineral at 18% of its AAQC for the 24-hour averaging period.

The silica results to date are summarized in Table 4-14. The data are presented visually in Figure 4-7.

## 4.9 POLYCYCLIC AROMATIC HYDROCARBONS

Sampling for PAHs was initiated in November 2022 and continued on a 1-in-12 day sample schedule, where possible to July 2024. A total of 47 samples were collected and analyzed. Benzo(a)pyrene, as a surrogate for PAHs, had a 90$^{th}$ percentile concentration that was 25% of its AAQC for the 24-hour averaging period. PAH sample results are summarized in Table 4-15. Benzo(a)pyrene data are presented in Figure 4-8. The measured data are presented visually in Appendix A as Figure A-9, histograms and box and whisker plots are shown as Figures A-10 and A-11, respectively.

## 4.10 DIESEL PARTICULATE MATTER

Sampling for DPM began in June 2023 at Station 1 and continued to July 2024. A total of 34 DPM samples were collected. Of the 34 samples, 11 were above the detection limit of elemental carbon. The mean elemental carbon concentration was measured to be 0.089 µg/m3. DPM results are summarized in Table 4-16. The data are presented visually as Figure 4-9.

## 4.11 MERCURY VAPOUR

Sampling for mercury vapour began in September 2024 at Station 1 and was completed in January 2025. A total of 6 samples were collected. None of the samples collected were above the detection limit for the vapour fraction. The mercury vapour results are summarized in Table 4-17.

## 4.12 METEOROLOGICAL DATA

Meteorological data were collected at the Project site between September 2022 to present at Station 1 and June 2022 to May 2024 at Station 3.

On-site meteorological data are summarized in Table 4-18 and Table 4-19. See Figures 4-10 through 4-12 and Appendix A Figures A-12 through A-21 for visualization of the data including a wind rose, and comparisons to local ECCC meteorological stations.

**Table 4-1: Suspended Particulate Matter Summary Statistics**

| Statistic | Station 1 (Cell Towers) |
|---|---|
| Geometric Mean SPM Concentration (µg/m$^3$) | 4.5 |
| Arithmetic Mean SPM Concentration (µg/m$^3$) | 8.0 |
| 90$^{th}$ percentile (µg/m$^3$) | 21.4 |
| Maximum 24-hour Concentration (µg/m$^3$) | 68.5 |
| 90$^{th}$ percentile as percent of 24-hour AAQC | 18% |
| Ontario AAQC (24-hour, µg/m$^3$) | 120 |
| Ontario AAQC (Annual, µg/m$^3$) | 60 |
| Number of sampling days | 115 |
| Number of samples > AAQC (SPM) | 0 |

**Table 4-2: Metals on SPM Summary Statistics**

| Metal | AAQC (µg/m$^3$) | Number of Detections | Number of samples | Mean (µg/m$^3$) | 90$^{th}$ Percentile (µg/m$^3$) | Maximum (µg/m$^3$) | 90$^{th}$ Percentile as Percent AAQC |
|---|---|---|---|---|---|---|---|
| Arsenic (As) | 0.3 | 1 | 115 | 2.0E-03 | 2.8E-03 | 4.3E-03 | 3% |
| Cadmium (Cd) | 0.025 | 0 | 115 | 6.5E-04 | 9.2E-04 | 1.1E-03 | 4% |
| Chromium (Cr) | 0.5 | 1 | 115 | 1.6E-03 | 2.3E-03 | 3.4E-03 | 0.5% |
| Cobalt (Co) | 0.1 | 0 | 115 | 6.5E-04 | 9.2E-04 | 1.1E-03 | 1% |
| Copper (Cu) | 50 | 113 | 115 | 6.1E-02 | 9.5E-02 | 2.6E-01 | 0.2% |
| Iron (Fe) | 4 | 75 | 115 | 6.3E-02 | 1.3E-01 | 4.0E-01 | 3% |
| Lead (Pb) | 0.5 | 3 | 115 | 1.0E-03 | 1.4E-03 | 5.0E-03 | 0.3% |
| Lithium (Li) | 20 | 0 | 115 | 8.7E-03 | 1.2E-02 | 1.5E-02 | 0.1% |
| Manganese (Mn) | 0.4 | 100 | 115 | 3.1E-03 | 7.1E-03 | 3.2E-02 | 2% |
| Nickel (Ni) | 0.2 | 1 | 115 | 1.0E-03 | 1.4E-03 | 9.5E-03 | 1% |
| Selenium (Se) | 10 | 0 | 115 | 3.2E-03 | 4.6E-03 | 5.5E-03 | 0.05% |
| Sulphur (S) | - | 115 | 115 | 2.2E-01 | 3.8E-01 | 6.0E-01 | — |
| Vanadium (V) | 2 | 0 | 115 | 1.6E-03 | 2.3E-03 | 2.8E-03 | 0.1% |
| Zinc (Zn) | 120 | 108 | 115 | 7.3E-03 | 1.3E-02 | 2.7E-02 | 0.01% |
| Total Mercury (Hg) | 2 | 1 | 115 | 6.5E-06 | 9.3E-06 | 1.1E-05 | 0.0005% |

*Notes:*
*1 Mercury analysis only includes the particulate-bound fraction.*
*2 AAQC are for the 24-hour Averaging Period.*

**Table 4-3: $PM_{10}$ Summary Statistics**

| Statistic | Station 2 (Tote Road) Continuous | Station 3 (Unnamed WB1) Continuous | Station 3 (Unnamed WB1) Discrete |
|---|---|---|---|
| Mean $PM_{10}$ Concentration (µg/m$^3$) | 7.2 (1) | 10.7 (1) | 9.6 |
| 90$^{th}$ percentile Concentration (µg/m$^3$) | 16.2 (1) | 28.2 (1) | 18.3 |
| Maximum 24-hour Concentration (µg/m$^3$) | 263 (2) | 291 (2) | 100 |
| 90$^{th}$ percentile as percent of 24-hour AAQC | 32% | 56% | 37% |
| Ontario Interim AAQC (24-hour Averaging Period, µg/m$^3$) | 50 | | |
| Number of sampling days (3) | 398 | 487 | 134 |
| Number of samples > Interim AAQC ($PM_{10}$) | 7 | 21 | 4 |

*Notes:*
*1 Calculated from 1-minute data.*
*2 Rolling mean.*
*3 75% requirement for a valid calendar day.*

**Table 4-4: $PM_{2.5}$ Summary Statistics**

| Statistic | Station 2 (Tote Road) Continuous | Station 3 (Unnamed WB1) Continuous | Station 2 Discrete (Tote Road) |
|---|---|---|---|
| Mean $PM_{2.5}$ Concentration (µg/m$^3$) | 6.4 (1) | 8.7 (1) | 5.8 |
| 90$^{th}$ percentile Concentration (µg/m$^3$) | 14.7 (1) | 21.7 (1) | 10.0 |
| Maximum 24-hour Concentration (µg/m$^3$) | 162 (2) | 176 (2) | 71.8 |
| 90$^{th}$ percentile as percent of 24-hour AAQC | 55% | 80% | 37% |
| Ontario AAQC (24-hour Averaging Period, µg/m$^3$) | 27 | | |
| Number of sampling days (3) | 398 | 487 | 107 |
| Number of samples > Interim AAQC ($PM_{2.5}$) | 14 | 35 | 2 |

*Notes:*
*1 Calculated from 24-hour calendar means.*
*2 Calendar mean.*
*3 75% requirement for a valid calendar day.*

**Table 4-5: Mean Particulate Matter by Month (Continuous Sampling)**

| Month (1) | $PM_{2.5}$ (µg/m$^3$) | $PM_{10}$ (µg/m$^3$) |
|---|---|---|
| January | 4.9 | 5.3 |
| February | 3.1 | 3.5 |
| March | 2.2 | 2.7 |
| April | 1.2 | 1.7 |
| May | 8.4 | 17.4 |
| June | 20.7 | 22.6 |
| July | 14.2 | 15.8 |
| August | 22.9 | 24.8 |
| September | 12.3 | 14.1 |
| October | 2.7 | 3.6 |
| November | 1.5 | 1.9 |
| December | 4.6 | 5.0 |

*Notes:*
*1 Multi-year data grouped by month.*

**Table 4-6: Mean Particulate Matter by Month (Discrete Sampling)**

| Month (1) | $PM_{2.5}$ (µg/m$^3$) | $PM_{10}$ (µg/m$^3$) | SPM (2) (µg/m$^3$) |
|---|---|---|---|
| January | 2.8 | 4.2 | 3.8 |
| February | 2.2 | 5.3 | 1.8 |
| March | 2.6 | 5.2 | 2.6 |
| April | 3.1 | 4.1 | 3.0 |
| May | 6.5 | 25.7 | 15.2 |
| June | 7.6 | 11.0 | 13.9 |
| July | 6.2 | 11.6 | 7.3 |
| August | 16.9 | 11.0 | 16.7 |
| September | 20.3 | 14.8 | 25.5 |
| October | 4.2 | 6.7 | 9.5 |
| November | 3.9 | 5.6 | 5.1 |
| December | 2.4 | 3.1 | 1.9 |

*Notes:*
*1 Mult-year data grouped by month.*
*2 By definition, $PM_{2.5}$ is a subset of $PM_{10}$ and $PM_{10}$ is a subset of SPM. Instances contradicting this definition are a result of samplers not being co-located and measurement variability inherent in the methods used. The similarities between the size fractions are an indication that for example most of the $PM_{10}$ is $PM_{2.5}$.*

**Table 4-7: Total Dustfall Summary Statistics**

| Statistic | Station 1 (Cell Towers) | Station 2 (Tote Road) | Station 3 (Unnamed Waterbody 1) | All Stations |
|---|---|---|---|---|
| Arithmetic mean dustfall (g/m$^2$/30d) | 0.92 | 0.78 | 1.16 | 0.98 |
| 90$^{th}$ percentile dustfall (g/m$^2$/30d) | 2.46 | 1.56 | 2.57 | 2.36 |
| Maximum dustfall (g/m$^2$/30d) | 4.49 | 2.06 | 4.24 | 4.49 |
| 90$^{th}$ percentile as percent of AAQC | 35% | 22% | 37% | 34% |
| 30-day AAQC (g/m$^2$/30d) | 7 | | | |
| Annual AAQC (g/m$^2$/30d) | 4.6 | | | |
| Number of samples | 27 | 19 | 29 | 75 |

**Table 4-8: Metal Deposition Summary Statistics**

| Metal | Number of Detections | Number of samples | Mean (µg/m$^2$/30day) | 90$^{th}$ Percentile (µg/m$^2$/30day) | Maximum (µg/m$^2$/30day) |
|---|---|---|---|---|---|
| Aluminum (Al) | 16 | 17 | 1.9E+03 | 4.6E+03 | 7.2E+03 |
| Antimony (Sb) | 12 | 17 | 2.0E+03 | 9.0E+01 | 1.6E+02 |
| Arsenic (As) | 0 | 17 | 5.0E+01 | 2.2E+01 | 1.2E+02 |
| Barium (Ba) | 13 | 17 | 1.6E+01 | 5.6E+03 | 6.2E+03 |
| Beryllium (Be) | 0 | 17 | 1.1E+03 | 8.6E+00 | 4.9E+01 |
| Bismuth (Bi) | 0 | 17 | 6.5E+00 | 2.2E+01 | 1.2E+02 |
| Boron (B) | 0 | 17 | 1.6E+01 | 2.2E+02 | 1.2E+03 |
| Cadmium (Cd) | 1 | 17 | 1.6E+02 | 1.9E+00 | 1.1E+01 |
| Calcium (Ca) | 15 | 17 | 1.5E+00 | 7.9E+04 | 1.1E+05 |
| Chromium (Cr) | 0 | 17 | 2.5E+04 | 1.1E+02 | 6.2E+02 |
| Cobalt (Co) | 0 | 17 | 8.1E+01 | 1.1E+01 | 6.2E+01 |
| Copper (Cu) | 8 | 17 | 8.1E+00 | 7.9E+01 | 1.1E+02 |
| Iron (Fe) | 10 | 17 | 2.8E+01 | 5.7E+03 | 1.2E+04 |
| Lead (Pb) | 0 | 17 | 2.7E+03 | 1.1E+01 | 6.2E+01 |
| Lithium (Li) | 0 | 17 | 8.1E+00 | 1.1E+02 | 6.2E+02 |
| Magnesium (Mg) | 15 | 17 | 8.1E+01 | 1.1E+04 | 1.5E+04 |
| Manganese (Mn) | 15 | 17 | 4.6E+03 | 5.2E+02 | 8.4E+02 |
| Molybdenum (Mo) | 0 | 17 | 2.3E+02 | 1.1E+01 | 6.2E+01 |
| Nickel (Ni) | 1 | 17 | 8.1E+00 | 2.6E+01 | 1.2E+02 |
| Phosphorus (P) | 5 | 13 | 1.7E+01 | 3.2E+04 | 6.9E+04 |
| Potassium (K) | 7 | 17 | 1.0E+04 | 3.7E+04 | 7.9E+04 |
| Selenium (Se) | 0 | 17 | 1.3E+04 | 4.3E+01 | 2.5E+02 |
| Silicon (Si) | 14 | 17 | 3.2E+01 | 5.3E+04 | 1.5E+05 |
| Silver (Ag) | 0 | 17 | 1.8E+04 | 1.9E+00 | 1.1E+01 |
| Sodium (Na) | 9 | 17 | 1.5E+00 | 2.0E+05 | 2.2E+05 |
| Strontium (Sr) | 13 | 17 | 3.8E+04 | 2.4E+02 | 4.5E+02 |
| Tellurium (Te) | 0 | 17 | 8.1E+01 | 2.2E+01 | 1.2E+02 |
| Thallium (Tl) | 0 | 17 | 1.6E+01 | 1.1E+00 | 6.2E+00 |
| Tin (Sn) | 4 | 17 | 8.1E-01 | 6.4E+01 | 2.2E+02 |
| Titanium (Ti) | 8 | 17 | 2.9E+01 | 3.3E+02 | 6.2E+02 |
| Tungsten (W) | 0 | 17 | 1.3E+02 | 2.2E+01 | 1.2E+02 |
| Uranium (U) | 0 | 17 | 1.6E+01 | 2.2E+00 | 1.2E+01 |
| Vanadium (V) | 3 | 17 | 1.6E+00 | 1.3E+01 | 6.2E+01 |
| Zinc (Zn) | 6 | 17 | 8.6E+00 | 3.8E+02 | 3.4E+03 |
| Zirconium (Zr) | 0 | 17 | 3.0E+02 | 2.2E+01 | 1.2E+02 |
| Mercury (Hg) | 0 | 17 | 9.7E-01 | 1.9E+00 | 2.4E+00 |

**Table 4-9: Continuous $NO_2$ Summary Statistics**

| Statistic | Station 1 (Cell Towers) | Station 3 (Unnamed Waterbody 1) |
|---|---|---|
| Arithmetic mean concentration (ppb, 1-minute data) | 0.39 | 0.31 |
| 90th percentile concentration (ppb, from rolling 1-hr mean) | 2.4 | 1.5 |
| 90th percentile concentration (ppb, from rolling 24-hr mean) | 2.0 | 0.95 |
| Maximum 1-hour concentration (ppb, rolling mean) | 25.4 | 19.5 |
| Maximum 24-hour concentration (ppb, rolling mean) | 9.0 | 4.9 |
| 90th percentile as percent of 1-hour AAQC | 1.2% | 0.8% |
| 90th percentile as percent of 24-hour AAQC | 2.0% | 0.9% |
| Number of valid sampling hours | 14218 | 10647 |
| Number of sample hours > AAQC (100 ppb, 24-hr rolling mean) | 0 | 0 |
| Number of sample hours > AAQC (200 ppb, 1-hr mean) | 0 | 0 |

**Table 4-10: Continuous $SO_2$ Summary Statistics**

| Statistic | Station 1 (Cell Towers) |
|---|---|
| Arithmetic mean concentration (ppb, 1-minute data) | 0.4 |
| 90th percentile concentration (ppb, from rolling 10-minute mean) | 1.9 |
| 90th percentile concentration (ppb, from rolling 1-hour mean) | 1.5 |
| 90th percentile concentration (ppb, from rolling 24-hour mean) | 1.2 |
| Maximum 10-minute concentration (ppb, rolling mean) | 17.9 |
| Maximum 1-hour concentration (ppb, rolling mean) | 15.2 |
| 90th percentile as percent of 10-minute AAQC | 3% |
| 90th percentile as percent of 1-hour AAQC | 3% |
| Arithmetic mean as percent of annual AAQC | 10% |
| Number of valid sampling hours | 13923 |
| Number of sample hours > AAQC (67 ppb, 10-minute rolling mean) | 0 |
| Number of sample hours > AAQC (40 ppb, 1-hour mean) | 0 |

**Table 4-11: Passive $NO_2$ and $SO_2$ Summary Statistics**

| Statistic | $NO_2$ | $SO_2$ |
|---|---|---|
| Arithmetic mean concentration (ppb) | 0.17 | 0.11 |
| 90th percentile concentration (ppb) | 0.40 | 0.20 |
| Maximum 30-day concentration (ppb) | 0.70 | 0.60 |
| Number of samples (1) | 63 | 63 |

*Note:*
*1 Includes duplicates*

**Table 4-12: Summa VOCs Summary Statistics (Method TO-15)**

| VOC [1] | 24-hr AAQC (µg/m$^3$) | Number of samples | Number of Detections | Typical Detection Limit (µg/m$^3$) | Mean (µg/m$^3$) | 90$^{th}$ Percentile (µg/m$^3$) | Maximum (µg/m$^3$) | 90$^{th}$ Percentile as Percent AAQC |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene | 10 | 25 | 0 | 0.5 | 0.56 | 0.56 | 6 | 6% |
| Benzene | 2.3 | | 21 | 0.2 | 0.34 | 0.55 | 0.63 | 24% |
| Ethylbenzene | 1000 | | 2 | 0.2 | 0.13 | 0.11 | 0.59 | 0.0% |
| o-Xylene | 730 | | 2 | 0.4 | 0.13 | 0.11 | 0.38 | 0.0% |
| m & p-Xylene | 730 | | 3 | 0.2 | 0.27 | 0.37 | 0.98 | 0.0% |
| Toluene | 2000 | | 11 | 0.2 | 0.35 | 0.93 | 1.90 | 0.0% |

*Note:*
*1 Select VOCs provided, entire list of VOCs can be found in Appendix B*

**Table 4-13: Passive VOCs Summary Statistics, corrected to 24-hour (Method 325)**

| VOC | 24-hr AAQC (µg/m$^3$) | Number of samples | Number of Detections | Typical Detection Limit (µg/m$^3$) | Mean (µg/m$^3$) | 90$^{th}$ Percentile (µg/m$^3$) | Maximum (µg/m$^3$) |
|---|---|---|---|---|---|---|---|
| 1,3-Butadiene | 10 | 22 | 0 | 6 | 6.2 | 6.3 | 12.6 |
| Benzene | 2.3 | | 3 | 0.5 | 0.70 | 1.1 | 2.3 |
| Ethylbenzene | 1000 | | 6 | 0.5 | 9.5 | 3.2 | 152 |
| m & p-Xylene | 730 | | 4 | 2.5 | 21.5 | 23.3 | 328 |
| o-Xylene | 730 | | 3 | 0.60 | 3.9 | 2.9 | 57 |
| Toluene | 2000 | | 5 | 6.0 | 5.5 | 3.5 | 84 |

**Table 4-14: Silica Summary Statistics**

| Compound | AAQC (µg/m³) | Number of samples | Number of Detections | Typical Detection Limit (1) (µg/m³) | Mean (µg/m³) | 90th Percentile (µg/m³) | Maximum (µg/m³) | 90th Percentile as Percent AAQC |
|---|---|---|---|---|---|---|---|---|
| Cristobalite | 5 | 28 | 0 | 0.2 | 0.10 | 0.10 | 0.22 | 2% |
| Quartz | 5 | | 17 | 0.2 | 0.50 | 0.92 | 1.87 | 18% |
| Total (Quartz and Cristobalite) | - | | 14 | 0.4 | 0.53 | 0.92 | 1.87 | — |
| Tridymite | 5 | | 0 | 0.4 | 0.21 | 0.21 | 0.43 | 4% |

*Note:*

*1 Concentrations are for the 24-hour Averaging Period using a PQ200 modified method to reduce detection limits.*

**Table 4-15: Polycyclic Aromatic Hydrocarbon Summary Statistics**

| PAH | AAQC (µg/m³) | Number of Samples | Measured Concentration | | | |
|---|---|---|---|---|---|---|
| | | | Mean (µg/m³) | 90th Percentile (µg/m³) | Maximum (µg/m³) | 90th Percentile as Percent AAQC |
| 1-Methyl Naphthalene | | 47 | 4.5E-04 | 8.7E-04 | 4.2E-03 | |
| 2-Methyl Naphthalene | | | 5.7E-04 | 1.2E-03 | 5.0E-03 | |
| Acenaphthene | | | 4.2E-04 | 7.2E-04 | 8.0E-03 | |
| Acenaphthylene | | | 4.7E-05 | 7.1E-05 | 6.4E-04 | |
| Anthracene | | | 4.9E-05 | 1.4E-04 | 4.9E-04 | |
| Benz(a)anthracene | | | 7.9E-06 | 1.1E-05 | 8.7E-05 | |
| Benzo(a)pyrene | 0.00005 (1) | | 5.0E-06 | 1.3E-05 | 4.1E-05 | 25% |
| Benzo(b)fluoranthene | | | 1.0E-05 | 2.4E-05 | 7.9E-05 | |
| Benzo(e)pyrene | | | 6.2E-06 | 1.4E-05 | 3.6E-05 | |
| Benzo(ghi)perylene | | | 5.4E-06 | 1.1E-05 | 3.0E-05 | |
| Benzo(k)fluoranthene | | | 8.8E-06 | 1.4E-05 | 7.8E-05 | |
| Chrysene | | | 2.5E-05 | 4.9E-05 | 1.8E-04 | |
| Dibenzo(ah)anthracene | | | 3.3E-06 | 6.9E-06 | 7.4E-06 | |
| Fluoranthene | | | 1.1E-04 | 2.9E-04 | 5.4E-04 | |
| Fluorene | | | 2.1E-04 | 4.3E-04 | 1.2E-03 | |
| Indeno(1,2,3 cd)pyrene | | | 5.8E-06 | 9.8E-06 | 3.1E-05 | |
| Naphthalene | 22.5 | | 2.7E-03 | 5.6E-03 | 3.3E-02 | 0.025% |
| Perylene | | | 4.0E-06 | 7.2E-06 | 2.2E-05 | |
| Phenanthrene | | | 5.9E-04 | 1.5E-03 | 3.2E-03 | |
| Pyrene | | | 1.2E-04 | 3.3E-04 | 5.9E-04 | |

*Note:*

*1 The AAQC for benzo(a)pyrene is used as a surrogate of total PAHs (MECP 2020).*

**Table 4-16: Diesel Particulate Matter Summary Statistics**

| Statistic | Criterion (µg/m³) (1) | Number of samples | Number of Detections | Mean (µg/m³) | 90th Percentile (µg/m³) | Maximum (µg/m³) | 90th Percentile as Percent Criterion |
|---|---|---|---|---|---|---|---|
| Elemental Carbon | 5 | 34 | 11 | 0.089 | 0.19 | <0.52 | 3.8% |

Note:

*1 Health Canada Chronic Exposure Criteria (HC, 2016).*

**Table 4-17: Mercury Vapour Summary Statistics**

| Statistic[(1)] | Criterion (µg/m$^3$) | Number of samples | Number of Detections | Mean (µg/m$^3$) | 90$^{th}$ Percentile (µg/m$^3$) | Maximum (µg/m$^3$) | 90$^{th}$ Percentile as Percent Criterion |
|---|---|---|---|---|---|---|---|
| Mercury Vapour | — | 6 | 0 | 0.043 | 0.067 | <0.16 | — |

**Table 4-18: Station 1 On-site Meteorological Data Summary**

| Parameter | Jan | Feb | Mar | Apr | May | June | Jul | Aug | Sept | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mean Temperature (°C) | -13.1 | -12.2 | -8.9 | 1.1 | 11.1 | 16.0 | 17.4 | 16.5 | 12.9 | 4.5 | -3.8 | -10.7 |
| Mean Daily High (°C) | -10.3 | -6.7 | -3.0 | 7.0 | 17.9 | 22.6 | 23.9 | 22.4 | 18.6 | 9.3 | -0.64 | -7.4 |
| Mean Daily Low (°C) | -16.4 | -17.9 | -14.8 | -4.3 | 4.5 | 10.0 | 11.5 | 11.2 | 7.9 | 0.5 | -7.1 | -14.3 |
| Maximum Temperature (°C) | 5.2 | 4.0 | 12.5 | 19.4 | 31.0 | 33.8 | 31.9 | 30.2 | 31.1 | 24.5 | 17.7 | 3.8 |
| Minimum Temperature (°C) | -33.6 | -34.7 | -26.1 | -15.7 | -2.3 | 1.8 | 5.0 | 6.2 | -3.5 | -9.7 | -22.8 | -33.2 |
| Precipitation (mm) (3) | 3.7 | 20.7 | 21.1 | 43.4 | 68.6 | 144.5 | 88.3 | 123.8 | 79.4 | 39.3 | 36.2 | 22.1 |
| Mean Daily Evaporation (mm) (2) | — | — | — | — | 4.3 | 4.6 | 4.5 | 2.7 | 2.2 | 1.8 | — | — |
| Mean Wind Speed (km/h) | 4.2 | 5.9 | 6.4 | 6.5 | 6.6 | 5.2 | 4.8 | 4.6 | 5.4 | 5.5 | 6.2 | 5.8 |
| Most Frequent Wind Direction | NW | NW | NW | E | E | S | NW | NW | S | W | NW | S |
| Maximum Wind Speed (km/h) | 19.5 | 21.2 | 24.6 | 26.0 | 25.3 | 23.3 | 21.0 | 20.8 | 24.3 | 23.8 | 22.3 | 21.9 |
| Direction of Maximum Wind Speed | W | SW | E | E | SE | E | W | S | SW | SW | NW | NW |
| Mean Solar Irradiance ($W/m^2$) (4) | 18.1 | 58.6 | 118.0 | 157.5 | 187.4 | 169.7 | 173.9 | 158.0 | 108.5 | 67.9 | 27.6 | 13.7 |
| Maximum Solar Irradiance ($W/m^2$) (4) | 407.1 | 726.0 | 887.0 | 1045.0 | 1121.0 | 983.0 | 970.0 | 948.0 | 951.0 | 755.3 | 538.8 | 221.1 |
| Mean Barometric Pressure (mmHg) (1) | 721.4 | 719.6 | 722.7 | 721.6 | 722.0 | 720.8 | 721.2 | 723.1 | 722.4 | 721.1 | 718.8 | 721.1 |
| Mean Relative Humidity (%) | 87.6 | 78.2 | 68.0 | 63.8 | 65.2 | 74.4 | 75.0 | 80.3 | 84.2 | 83.9 | 85.6 | 86.9 |

*Notes: From 5-minute averaging source data. Data from September 2022 – November 2024.*

*1 Barometer experienced abnormally low readings in November 2023*

*2 Class A Evaporation, only 2023 evaporation data is included, gauge experienced unreliable measurements in 2024.*

*3 Precipitation gauge heater failed in autumn of 2023, was temporarily replaced in January 2024, temporary gauge measured high precipitation values in August and September 2024 when compared to Ear Falls (Figure A-25). Temporary gauge was replaced in October 2024.*

*4 Solar irradiance sensor was replaced in summer of 2024.*

**Table 4-19: Station 3 On-site Meteorological Data Summary**

| Parameter | Jan | Feb | Mar | Apr | May | June | Jul | Aug | Sept | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mean Temperature (°C) | -14.2 | -9.5 | -8.8 | 1.4 | 13.2 | 18.3 | 16.2 | 16.4 | 12.2 | 4.4 | -3.9 | -8.8 |
| Maximum Temperature (°C) | 7.8 | 5.0 | 13.6 | 20.0 | 30.2 | 33.6 | 29.7 | 28.1 | 31.4 | 25.8 | 18.5 | 5.3 |
| Minimum Temperature (°C) | -36.2 | -35.8 | -30.0 | -23.7 | -1.3 | 1.4 | 2.6 | 3.0 | -4.0 | -11.0 | -26.5 | -37.7 |
| Mean Wind Speed (km/h) | 5.4 | 8.6 | 11.9 | 9.3 | 6.4 | 4.1 | 5.2 | 4.2 | 4.4 | 7.4 | 10.0 | 9.3 |
| Maximum Wind Speed (km/h) | 24.9 | 27.3 | 35.6 | 33.3 | 22.2 | 31.9 | 43.6 | 24.0 | 27.2 | 26.6 | 32.1 | 26.5 |

*Notes:*
*From 5-minute averaging source data; Data from June 2022 to April 2024; Minimal data collected in winter of 2022/2023.*

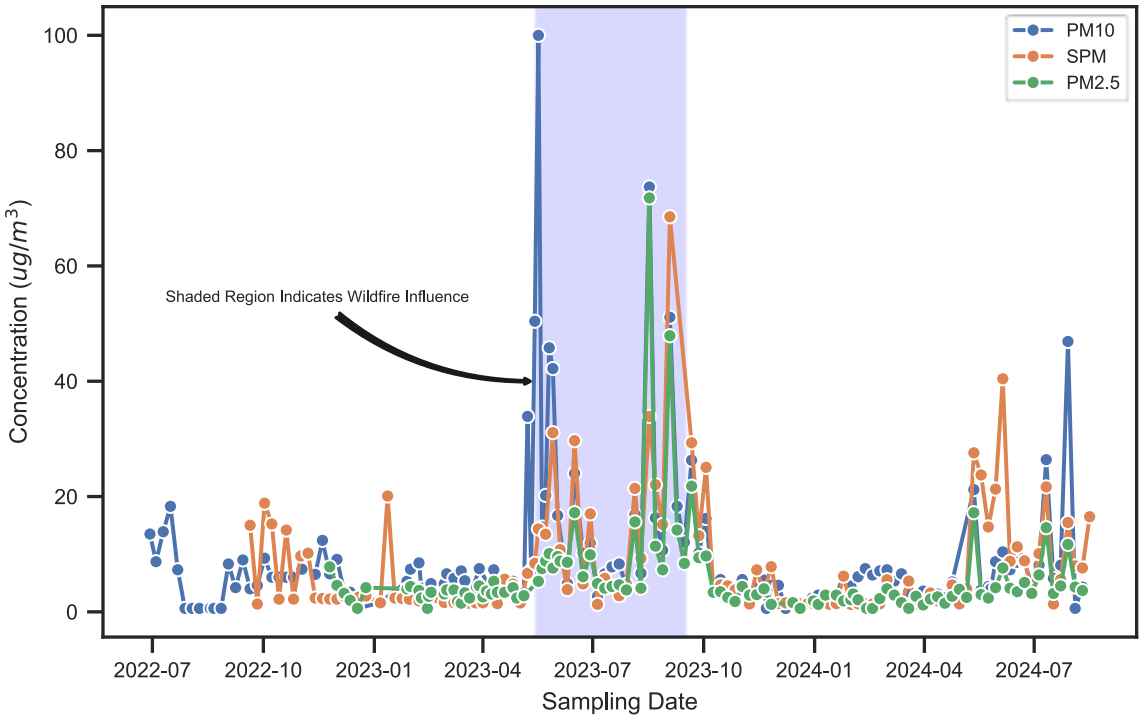



**Figure 4-1: Discrete Particulate Data**

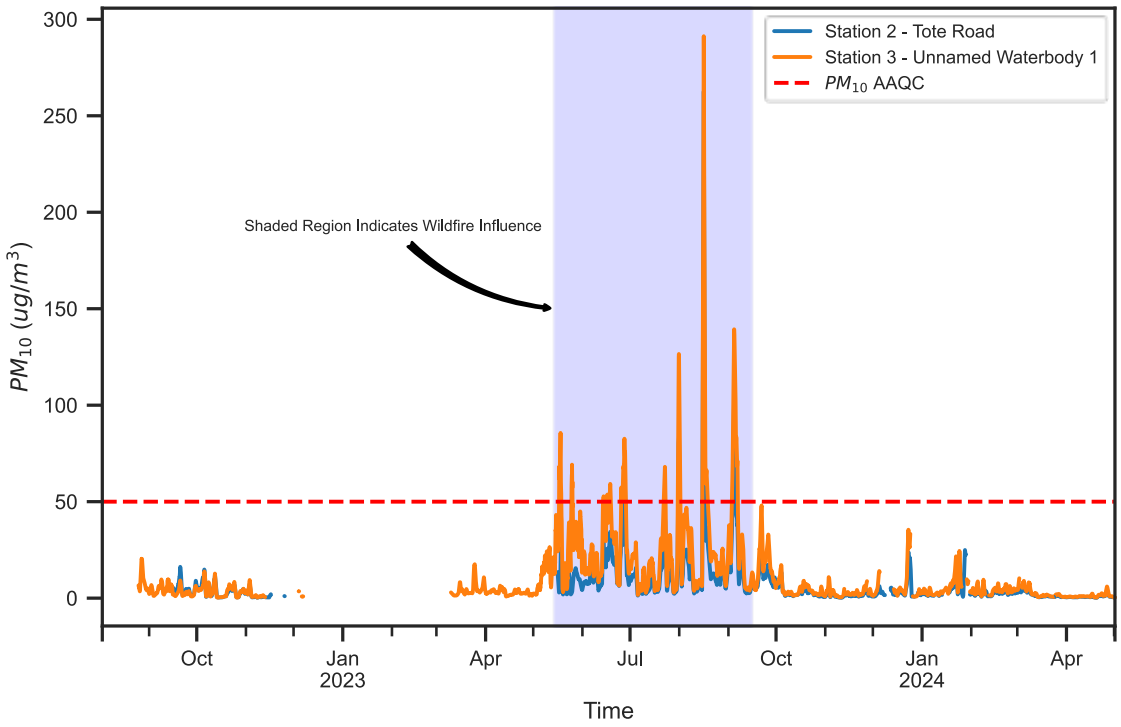



**Figure 4-2: $PM_{10}$ 24-hour Rolling Mean**

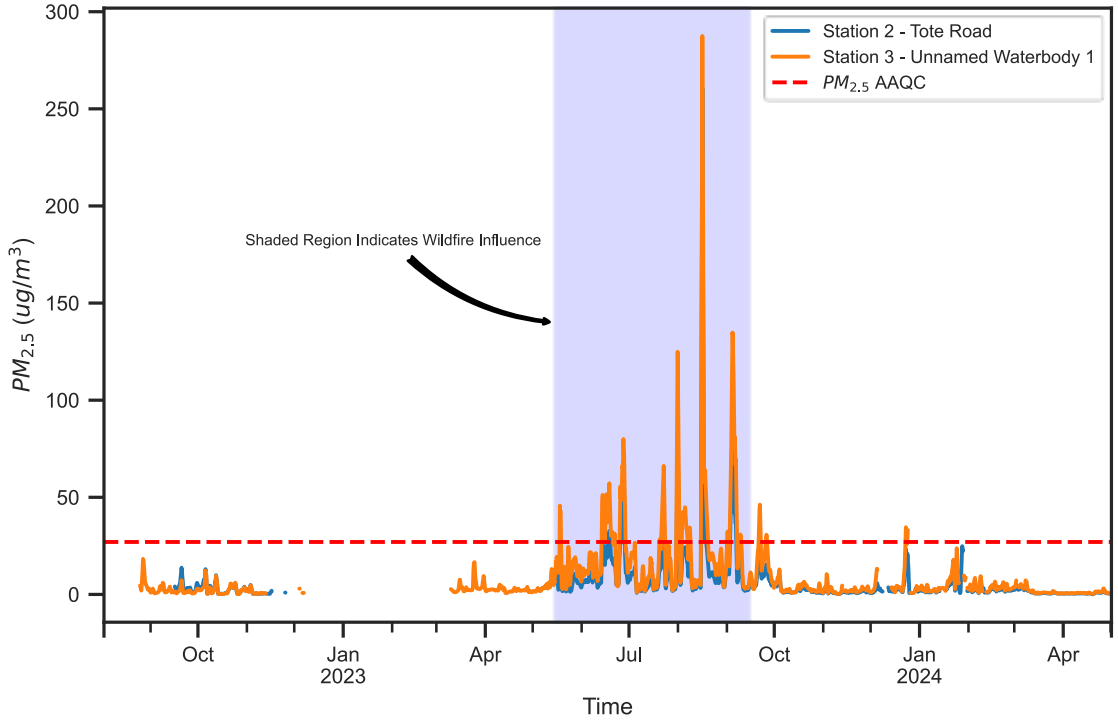



**Figure 4-3: $PM_{2.5}$ 24-hour Rolling Mean**

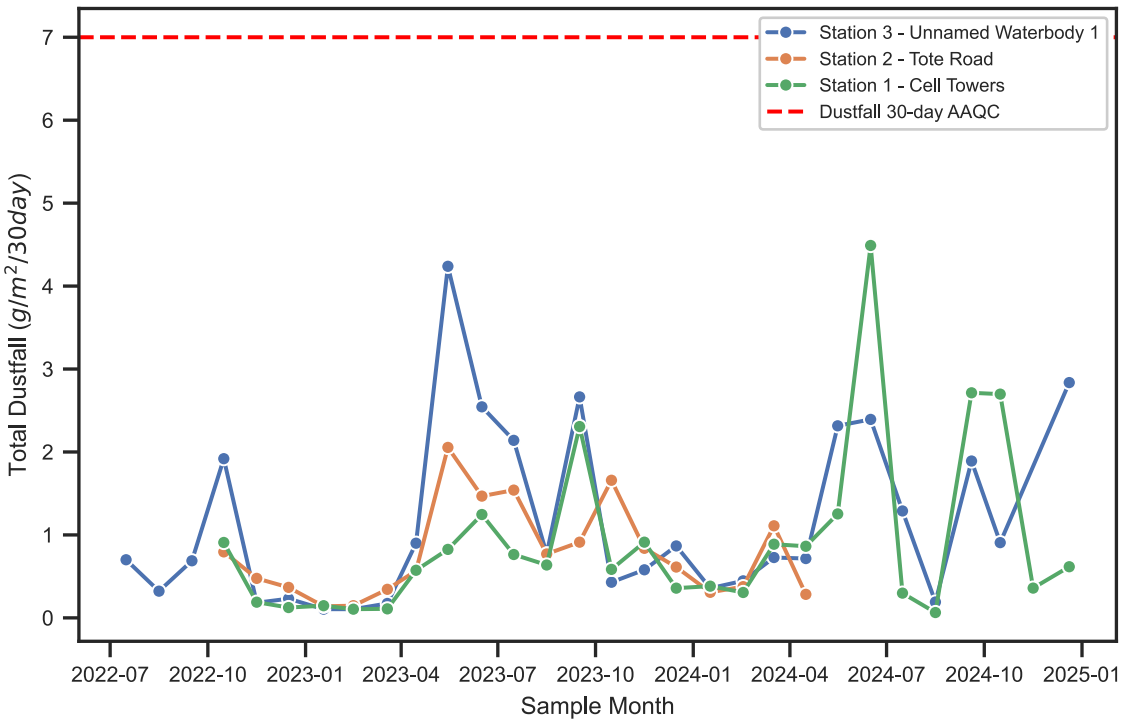



**Figure 4-4: Dustfall Data**

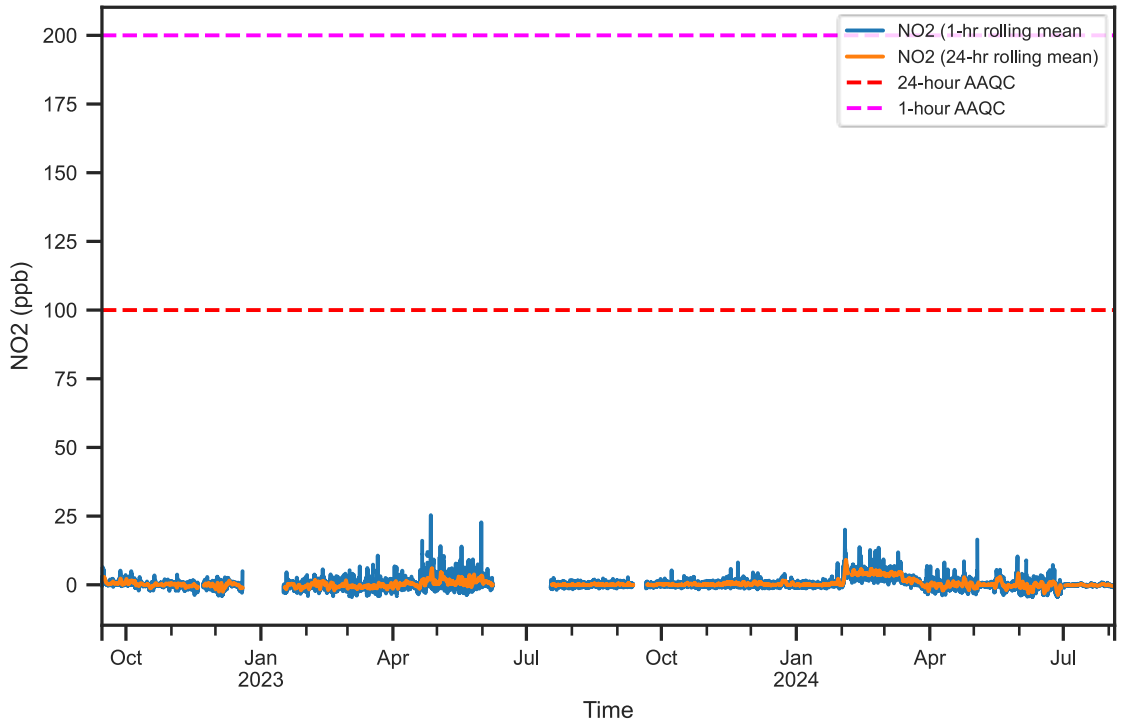



**Figure 4-5: Station 1 $NO_2$**

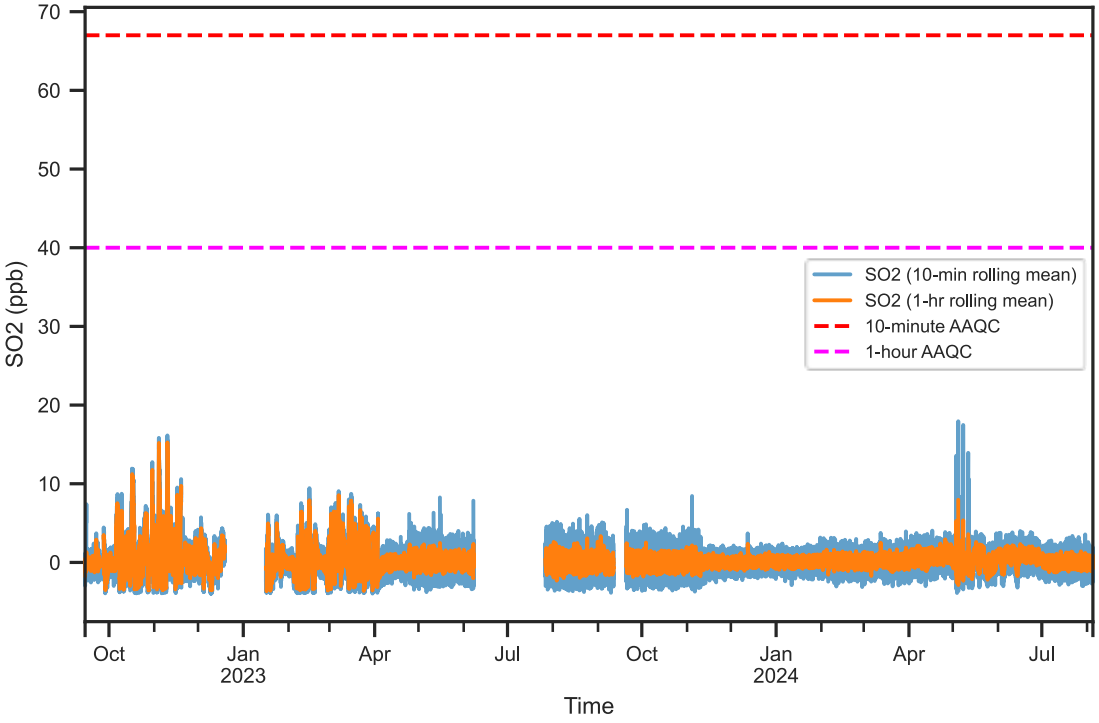



**Figure 4-6: Station 1 $SO_2$**

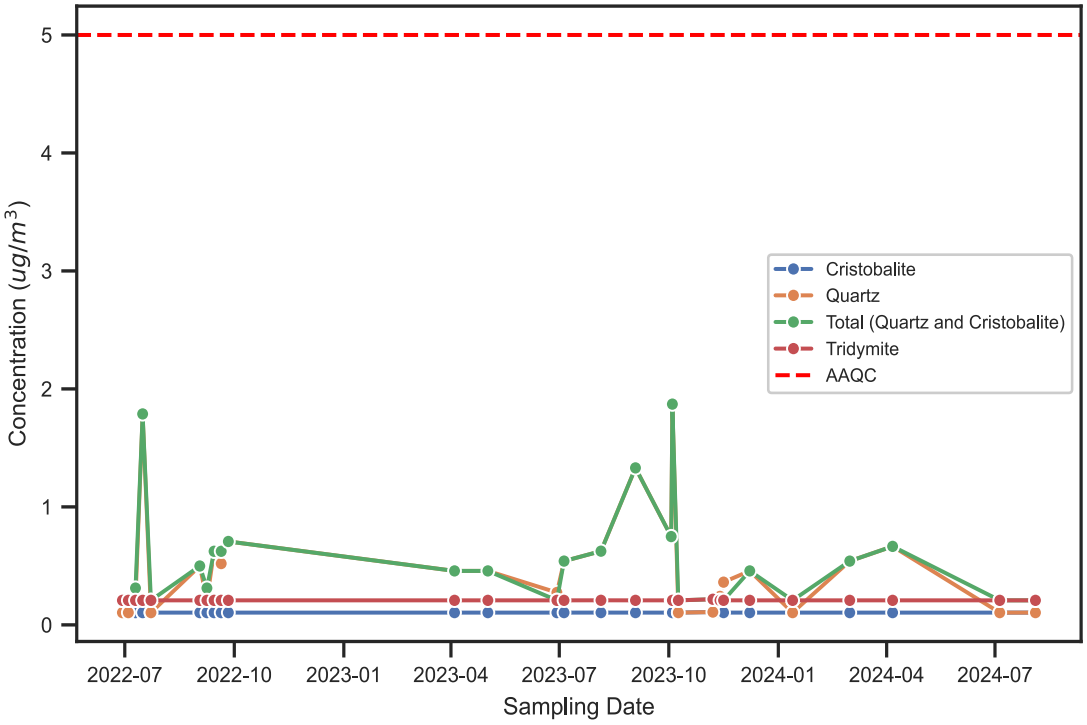



**Figure 4-7: Silica Data**

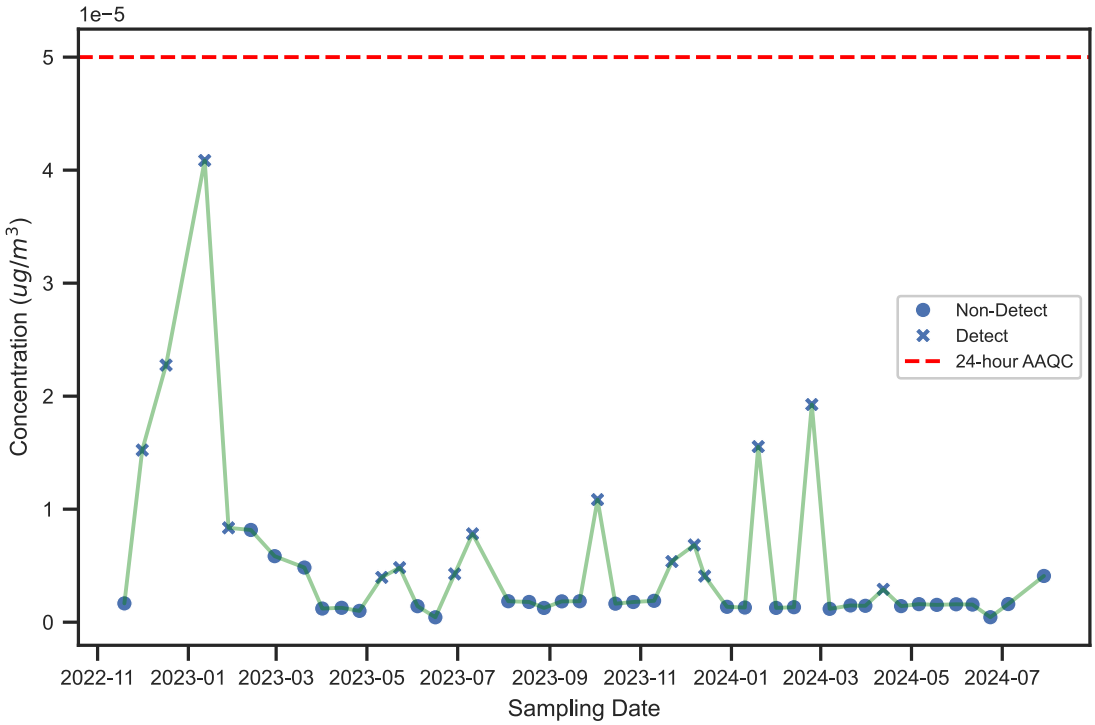



**Figure 4-8: Benzo(a)pyrene data**

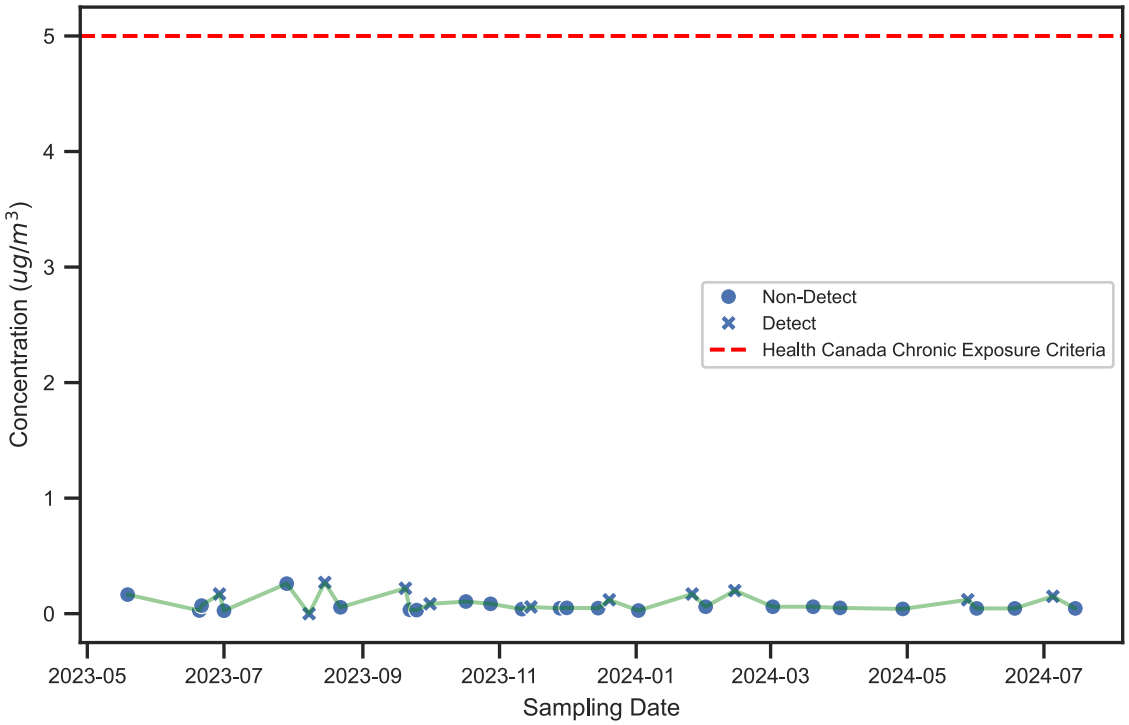



**Figure 4-9: DPM (as elemental carbon) Data**

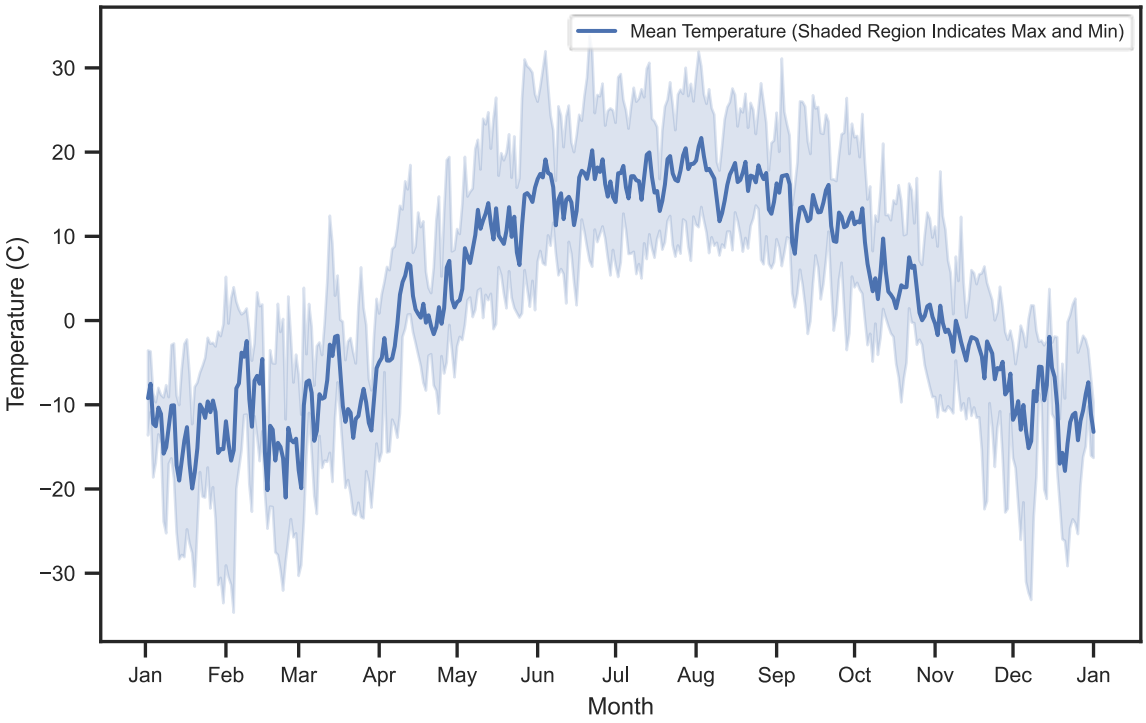



**Figure 4-10: Station 1 Temperature (2022-2024)**

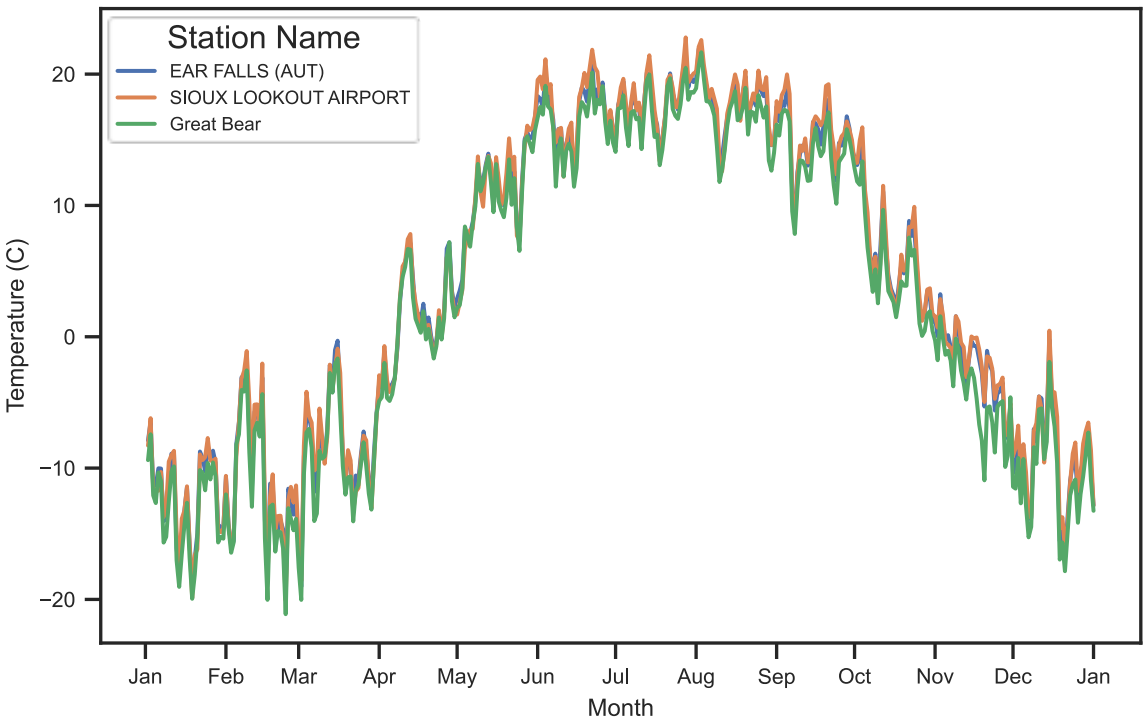



**Figure 4-11: Station 1 Mean Temperature Comparison (2022-2024)**

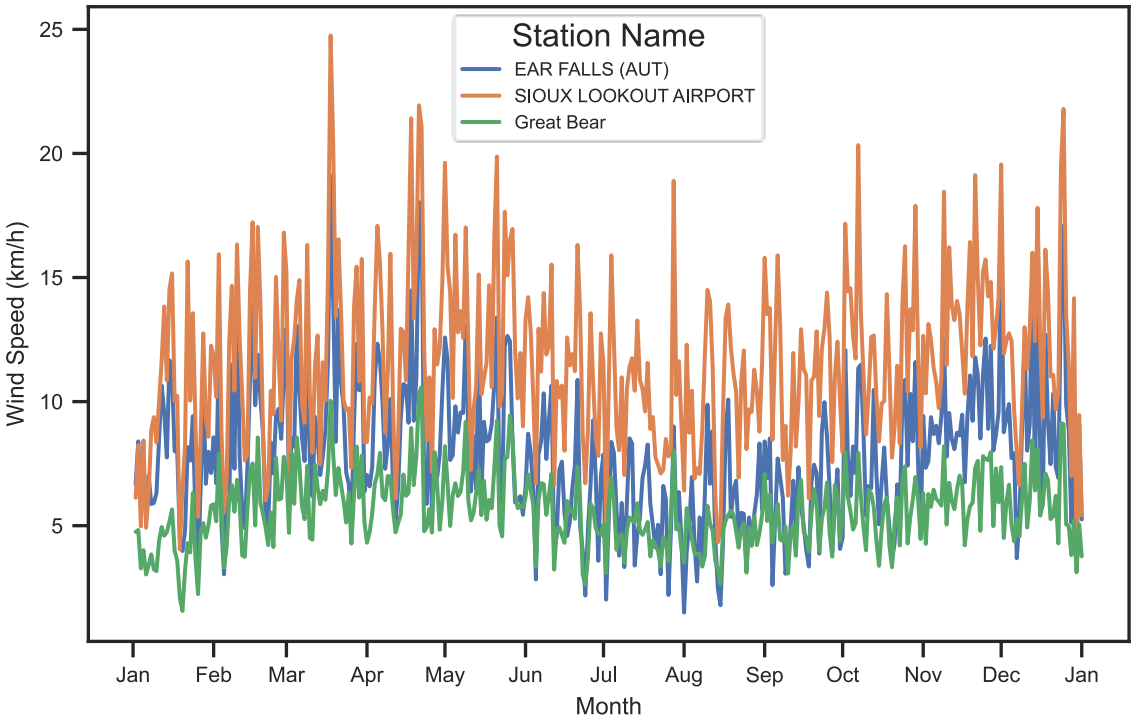



**Figure 4-12: Station 1 Mean Wind Speed Comparison (2022-2024)**

# 5 PUBLISHED AIR QUALITY DATA

Regional background air quality is monitored at stations operated as part of ECCC NAPS Network, which includes monitoring stations across Canada. The NAPS Network reports background air chemistry data that are collected for various gases, PM, VOCs, and semi-volatile VOCs.

NAPS Stations located at Thunder Bay, and Pickle Lake, Ontario as well as Winnipeg, Manitoba were chosen as representative of regional air data to supplement the baseline data collected at the Project.

Table 5-1 through Table 5-5 provide summaries of regional air quality data obtained for this study.

## 5.1 FINE PARTICULATE MATTER <2.5 MICROMETRES

The Project concentrations measured on site are reasonably consistent with the means and 90$^{th}$ percentiles at the NAPS stations for the discrete sampler; the 90$^{th}$ percentile measured on site of 10.0 µg/m$^3$ is within the range of the 90$^{th}$ percentiles of approximately 9 to 12 µg/m$^3$ reported at nearby NAPS Stations. The arithmetic mean of 5.8 µg/m$^3$ is similar to the means measured at the nearby NAPS Stations. The continuous monitors measured higher means and 90$^{th}$ percentiles than the NAPS stations; this can be attributed to a reduced data collection in the winter months of 2022/2023 as well as influence from forest fires in the summer of 2023 which is not captured in the historical NAPS data.

The $PM_{2.5}$ statistics from Thunder Bay and Winnipeg are provided in Table 5-1.

## 5.2 NITROGEN DIOXIDE

The continuous $NO_2$ monitors at the Property measured much lower means (0.4 and 0.3 ppb) and 90$^{th}$ percentile (0.95 to 2.4 ppb) concentrations (Table 5-2) than those of the Thunder Bay and Winnipeg NAPS monitors.

The passive $NO_2$ samplers on the Property also measured much lower mean (0.17 ppb) and 90$^{th}$ percentile (0.4 ppb) concentrations than those of the Thunder Bay and Winnipeg NAPS monitors (Table 5-2). The NAPS monitors measured 4 ppb to 17 ppb as the 90$^{th}$ percentile concentrations depending on the station and the year.

These differences may be attributed to the remote location of the on-site monitor and urban locations of the NAPS stations.

## 5.3 SULPHUR DIOXIDE

The passive $SO_2$ monitoring passive samplers measured 30-day mean concentrations (0.1 ppb) similar to the mean hourly concentrations at (Table 5-3) measured at the Winnipeg Station (0 ppb to 0.1 ppb). The continuous $SO_2$ monitor measured slightly higher values (90$^{th}$ percentile of 1.5 ppb) than the Winnipeg NAPS Station (90$^{th}$ percentile of 0.5 ppb).

The background $SO_2$ statistics from the Winnipeg station is displayed in Table 5-3

## 5.4 OZONE

Regional ozone concentrations from the Experimental Lakes Area, Thunder Bay, and Winnipeg stations are displayed in Table 5-4.

## 5.5 CARBON MONOXIDE

There are 66 NAPS stations across Canada that are currently monitoring for carbon monoxide (CO), of which 21 are in British Columbia; none of these stations are proximate to the Project site, with the closest in Ottawa more than 400 kilometres to the southeast. For these reasons, CO was estimated from a larger set of data.

The data collected at 45 NAPS stations are presented in Table 5-5 and are considered to be a reasonable depiction of regional CO concentrations. The data from British Columbia were excluded to avoid introducing a bias to the mean and 90$^{th}$ percentile statistics.

**Table 5-1: Regional $PM_{2.5}$ Statistics for Thunder Bay and Winnipeg (µg/m³)**

| Station | Averaging Period | CAAQS | Measurement | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
|---|---|---|---|---|---|---|---|---|---|
| Thunder Bay | 1-hour | N/A | 90th percentile | 10 | 12 | 10 | 10 | 12 | 9 |
| | | | Mean | 5 | 6 | 5 | 5 | 7 | 5 |
| | 24-hour | 27 µg/m³ | 90th percentile | 9 | 11 | 9 | 9 | 11 | 8 |
| | | | Mean | 5 | 6 | 5 | 5 | 7 | 5 |
| Winnipeg (Scotia Street) | 1-hour | N/A | 90th percentile | 9 | 10 | 10 | 11 | 25 | — |
| | | | Mean | 4 | 5 | 5 | 6 | — | — |
| | 24-hour | 27 µg/m³ | 90th percentile | 8 | 10 | 9 | 10 | 27 | — |
| | | | Mean | 4 | 5 | 5 | 6 | — | — |
| Winnipeg (Ellen Street) | 1-hour | N/A | 90th percentile | 12 | 12 | 10 | 10 | 15 | 10 |
| | | | Mean | 6 | 7 | 6 | 5 | 8 | 6 |
| | 24-hour | 27 µg/m³ | 90th percentile | 11 | 12 | 9 | 9 | 16 | 10 |
| | | | Mean | 6 | 7 | 6 | 5 | 8 | 6 |

**Table 5-2: Regional $NO_2$ Statistics for Thunder Bay and Winnipeg (ppb)**

| Station | Averaging Period | Standard / AAQC | Measurement | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
|---|---|---|---|---|---|---|---|---|---|
| Thunder Bay | 1-hour | 200 ppb (400 µg/m³) | 90th percentile | 14.2 | 16.4 | 14.6 | 14 | 14.6 | 16.6 |
| | | | Mean | 6.7 | 7.5 | 6.6 | 6.1 | 6.5 | 7 |
| | 24-hour | 100 ppb (200 µg/m³) | 90th percentile | 11.7 | 13.9 | 12.6 | 11.8 | 12.9 | 13.9 |
| | | | Mean | 6.7 | 7.5 | 6.6 | 6.1 | 6.5 | 7 |
| Winnipeg (Ellen Street) | 1-hour | 200 ppb (400 µg/m³) | 90th percentile | 15.6 | 16.4 | 16.3 | 13.8 | 11.9 | 8.7 |
| | | | Mean | 7.5 | 8.6 | 9.8 | 8 | 6.7 | 3.7 |
| | 24-hour | 100 ppb (200 µg/m³) | 90th percentile | 13.3 | 14.3 | 14.7 | 12.2 | 10.7 | 7.9 |
| | | | Mean | 7.5 | 8.6 | 9.8 | 8 | 6.8 | 3.8 |

**Table 5-3: Regional $SO_2$ Statistics for Winnipeg (ppb)**

| Station | Averaging Period | Criteria | Measurement | 2018 | 2019 to 2022 (2) |
|---|---|---|---|---|---|
| Winnipeg (Ellen Street) | 1-hour | 40 ppb | 90th percentile | 0.4 | — |
| | | | Mean | 0.1 | — |
| | 24-hour | 100 ppb (275 µg/m³ (1) | 90th percentile | 0.5 | — |
| | | | Mean | 0.1 | — |

*Notes:*
*1 There is no 24-hour AAQC for SO2, Ontario Regulation 419/05 Standard used (Government of Ontario, 2023).*
*2 ECCC removed the data for unknown reasons.*

**Table 5-4: Regional $O_3$ Statistics for Thunder Bay and Pickle Lake (ppb)**

| Station | Averaging Period | Criteria | Measurement | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
|---|---|---|---|---|---|---|---|---|---|
| Thunder Bay | 1-hour | 0.08 ppm (165 µg/m$^3$) | 90th percentile | 37 | 39 | 37 | 36 | 39 | 38 |
| | | | Mean | 23 | 24 | 24 | 23 | 24 | 25 |
| | 24-hour | N/A | 90th percentile | 33 | 35 | 34 | 32 | 34 | 35 |
| | | | Mean | 23 | 24 | 24 | 23 | 24 | 25 |
| Experimental Lakes Area | 1-hour | 0.08 ppm (165 µg/m$^3$) | 90th percentile | 42 | 46 | 42 | 40 | 43 | 42 |
| | | | Mean | 30 | 32 | 30 | 29 | 30 | 30 |
| | 24-hour | N/A | 90th percentile | 41 | 45 | 42 | 39 | 41 | 41 |
| | | | Mean | 30 | 32 | 30 | 29 | 30 | 30 |

**Table 5-5: Canadian CO Statistics (ppb)**

| Stations | Averaging Period | Criteria | Measurement | 2018 | 2019 | 2020 |
|---|---|---|---|---|---|---|
| 45 Canadian NAPS Stations | 1-hour | 30 ppm (36,200 µg/m$^3$) | Mean | 0.20 | 0.19 | 0.20 |
| | | | 90th percentile | 0.30 | 0.30 | 0.31 |
| | 8-hour | 13 ppm (15,700 µg/m$^3$) | Mean | 0.20 | 0.19 | 0.20 |
| | | | 90th percentile | 0.31 | 0.30 | 0.31 |

*Notes:*

*1 A factor of 1,208 ppm per µg/m³ was used for conversion of CO concentrations.*

*2 The Canadian dataset used excludes the stations in British Columbia to avoid biasing the data with the number of stations located in the Metro Vancouver area.*

*3 The 90$^{th}$ percentile values cited were the maximum 90$^{th}$ percentiles of the 45 stations across Canada, excluding British Columbia*

# 6 DATA MANAGEMENT AND REPORTING

## 6.1 DATA VALIDATION

### *6.1.1 DISCRETE SAMPLERS*

Data validation for the discrete samples (SP, $PM_{10}$ and $PM_{2.5}$) is carried out when the results are reported by the laboratory. Validation includes, at minimum, verification that the sample volume collected is within 10% of the target sample volume (e.g., 1,632 actual $m^3$, for the high-volume sampler), that the Laboratory Certificate of Analysis and Chain of Custody forms are in agreement, there are no signs of sample spoiling (i.e., missing filter pieces, droppings, etc.), and the data are reasonable (e.g., investigate and verify extreme values).

### *6.1.2 CONTINUOUS SAMPLERS*

Data validation for the Aeroqual continuous monitors includes routine data QA/QC checks and regular monitoring of concentrations and investigations into suspect data is undertaken as applicable.

# 7 QA/QC PROTOCOLS

The ambient air baseline monitoring program is carried out in accordance with defined QA/QC protocols to ensure that the basic elements outlined in the MECP Operations Manual are adhered to, which include:

- Strategic site selection to minimize interferences and obstacles that may affect airflow
- Sampling system requirements
- Site and analyzer operation
- Frequency of sampler flow checks and equipment calibrations
- Performance and system audits
- Data validation, editing, and reporting
- Documentation of field notes
- Personnel training.

Field staff were appropriately trained in the operation of the air monitoring equipment, sample recovery, transport, and shipment to the laboratory.

Blank Hi-Vol filters, 47 mm filters, and passive sample cassettes were submitted to the laboratories for analysis on a routine basis.

# 8 CONCLUSION

An ambient air quality baseline monitoring program was initiated in 2022 and completed in 2025 at the Project site to establish baseline air concentrations for the Project.

The monitoring data are generally consistent with what would be expected for baseline conditions at a more remote location, and with the regional data. Regional data for $PM_{2.5}$, $NO_2$, $SO_2$, $O_3$, and CO, collected as part of the federal NAPS network, were also provided.

The baseline concentrations for SPM, $NO_2$, $SO_2$, VOCs, PAHs, silica, diesel particulate matter, and metals were measured at low concentrations or below detectable levels.

There were baseline concentrations above the 24-hour AAQC measured for $PM_{2.5}$ and the 24-hour AAQC for $PM_{10}$. Reduced data collection in the winter months of 2022/2023 as well as influence from wildfires in the summer of 2023 likely contributed to elevated concentrations.

# 9 CLOSING

This Interim Ambient Air Quality Baseline Monitoring Report was prepared for Great Bear Resources by WSP. The quality of information, conclusions and scheduling estimates contained herein is consistent with the level of effort involved in WSP's services and based on: i) information available at the time of preparation; ii) data supplied by outside sources; and iii) the assumptions, conditions and qualifications set forth in this report.

# 10 REFERENCES


- American Society for Testing and Materials (ASTM). 1999. D2986-95A Standard Practice for Evaluation of Air Assay Media by the Monodisperse DOP.
- American Society for Testing and Materials (ASTM). 2017. D1739-98 Standard Test Method for Collection and Measurement of Dustfall (Settleable Particulate Matter).
- Canadian Council of Ministers of the Environment (CCME). 2024. Canadian Ambient Air Quality Standards.
- Environment and Climate Change Canada (ECCC). 2024. National Air Pollution Surveillance Program.
- Government of Ontario. Ontario Regulation 419/05: Air Pollution – Local Air Quality (O.Reg. 419/05).
- Health Canada (HC). 2016. Human Health Risk Assessment for Diesel Exhaust.
- Ministry of Environment, Conservation and Parks (MECP). 2023a. Standards Development Branch, Ontario's Ambient Air Quality Criteria, PIBs 6570e01.
- Ministry of Environment, Conservation and Parks (MECP). 2023b. Operations Manual for Air Quality Monitoring in Ontario.
- Ministry of Environment, Conservation and Parks (MECP). 2023c. Guideline A-10: Procedure for Preparing an Emission Summary and Dispersion Modelling Report.
- WSP Canada (WSP). 2023. Ambient Air Baseline Monitoring Plan (Rev 01).

# Appendix A
# Data Plots

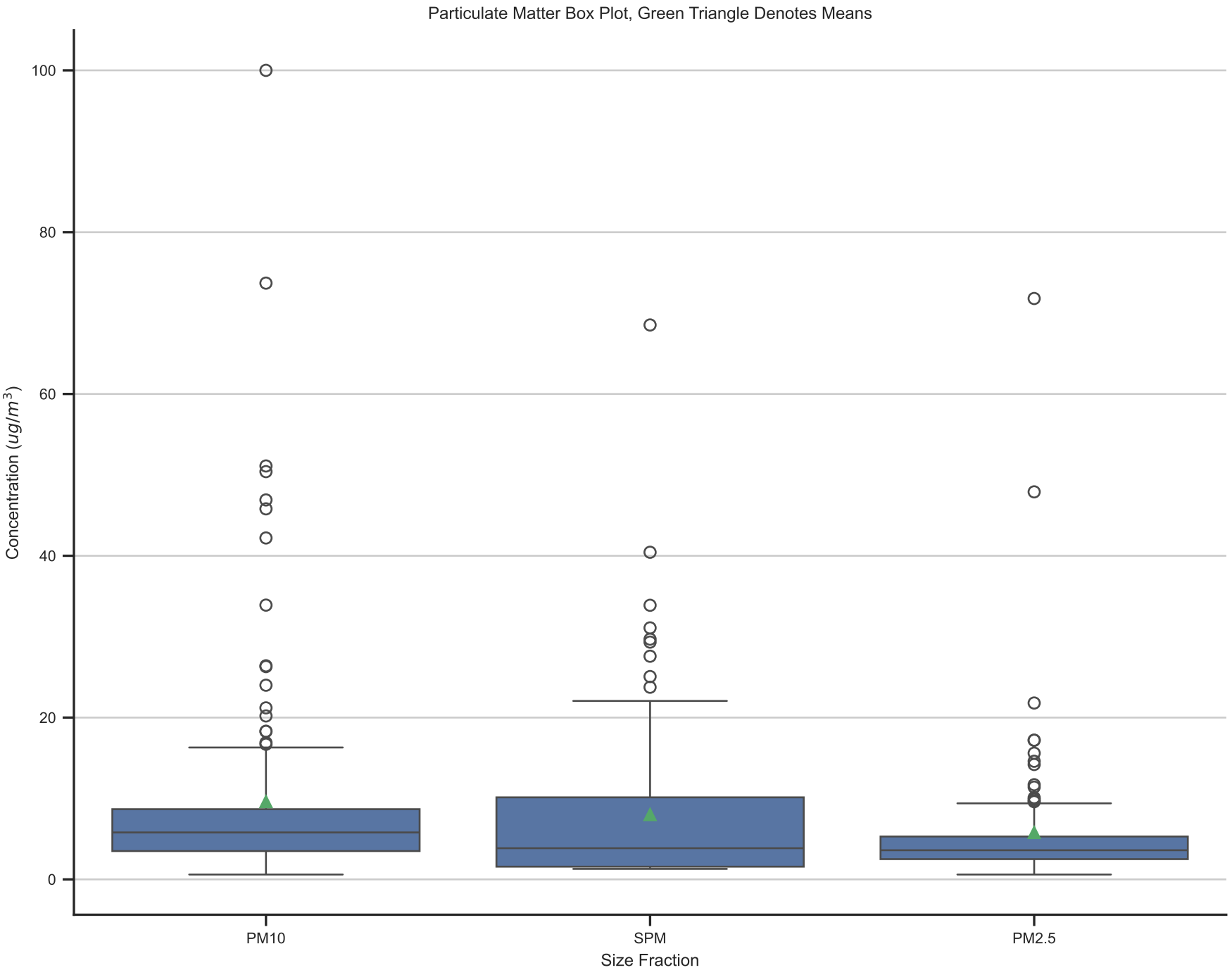
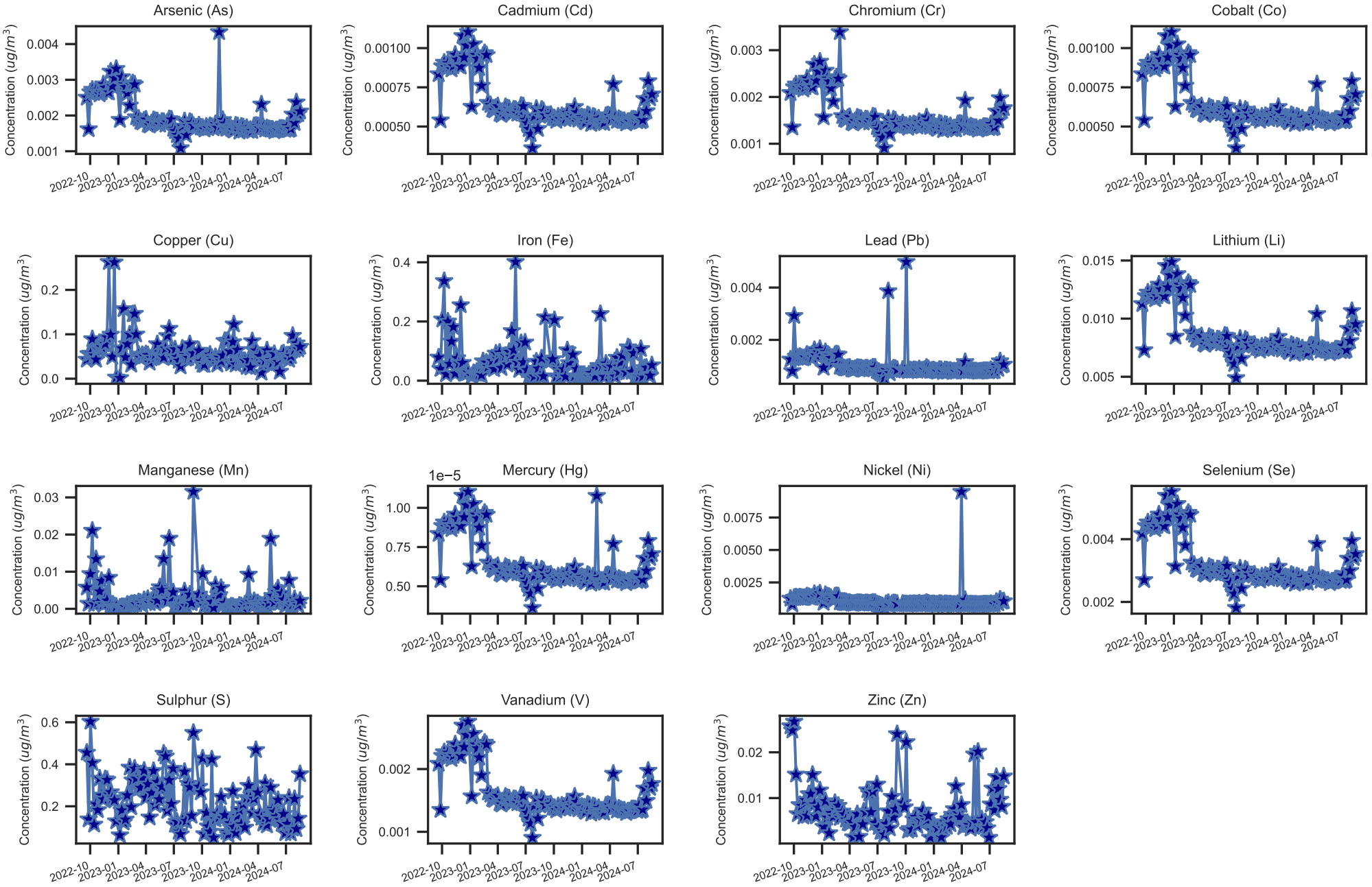

Particulate Matter Box Plot, Green Triangle Denotes Means
Concentration ($ug/m^3$)
100
80
60
40
20
0
PM10
SPM
PM2.5
Size Fraction

Figure A-2 Metal Concentrations



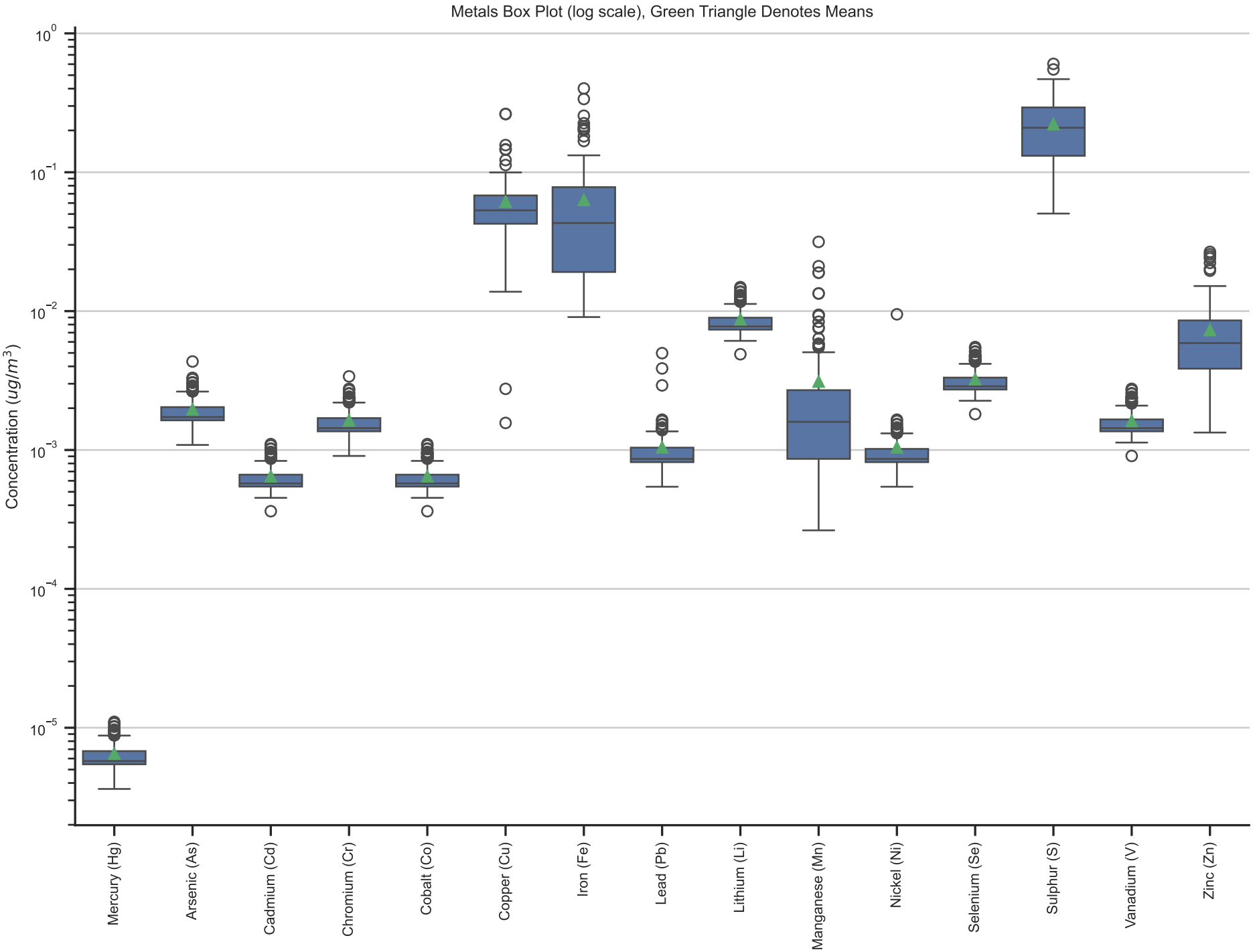

Metals Box Plot (log scale), Green Triangle Denotes Means
Concentration (ug/m3)
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
Mercury (Hg)
Arsenic (As)
Cadmium (Cd)
Chromium (Cr)
Cobalt (Co)
Copper (Cu)
Iron (Fe)
Lead (Pb)
Lithium (Li)
Manganese (Mn)
Nickel (Ni)
Selenium (Se)
Sulphur (S)
Vanadium (V)
Zinc (Zn)

Figure A-4: Metal Histograms

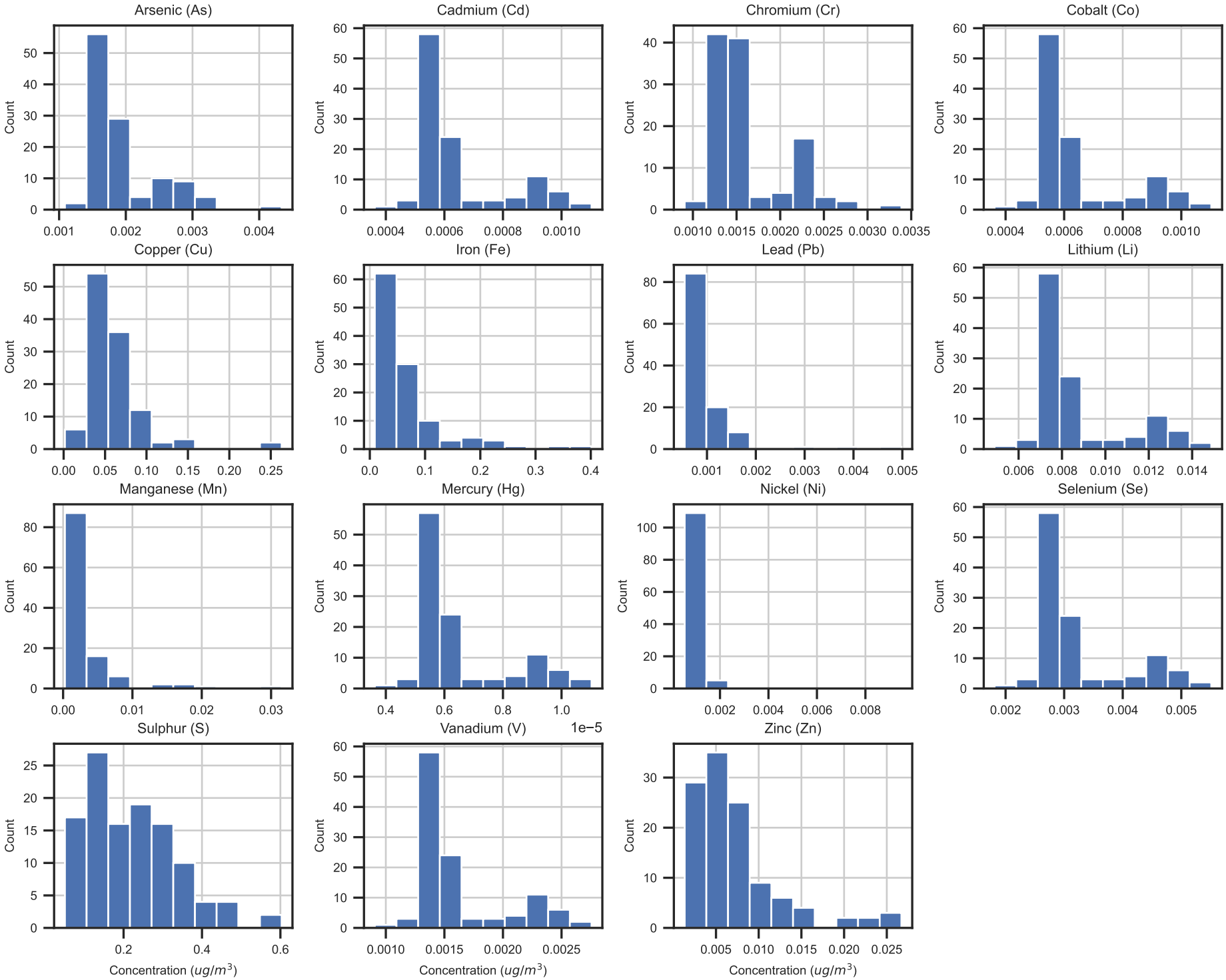


Figure A-5: Select VOC Line Plots, Method TO-15

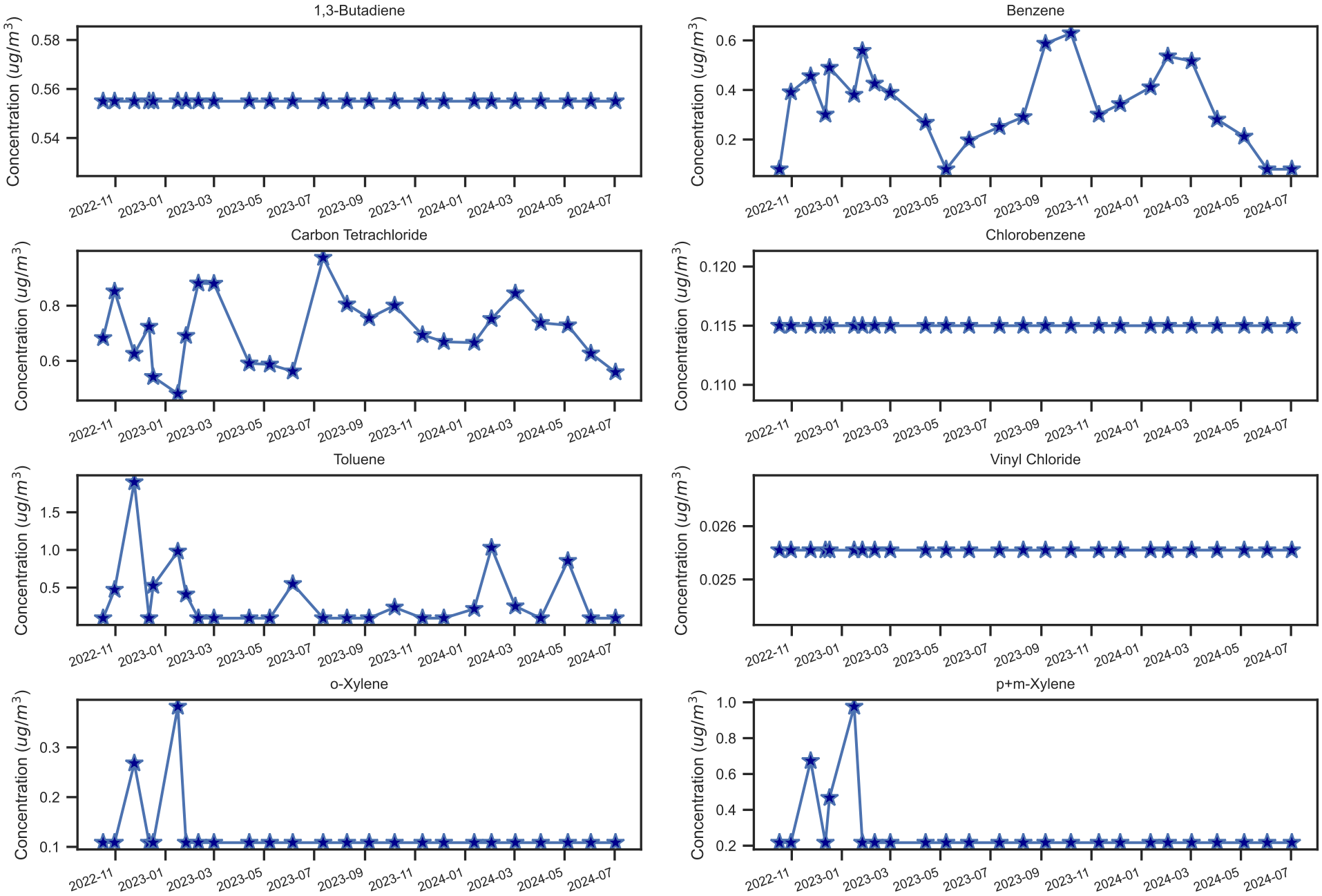


Figure A-6: Select VOC Histograms, Method TO-15

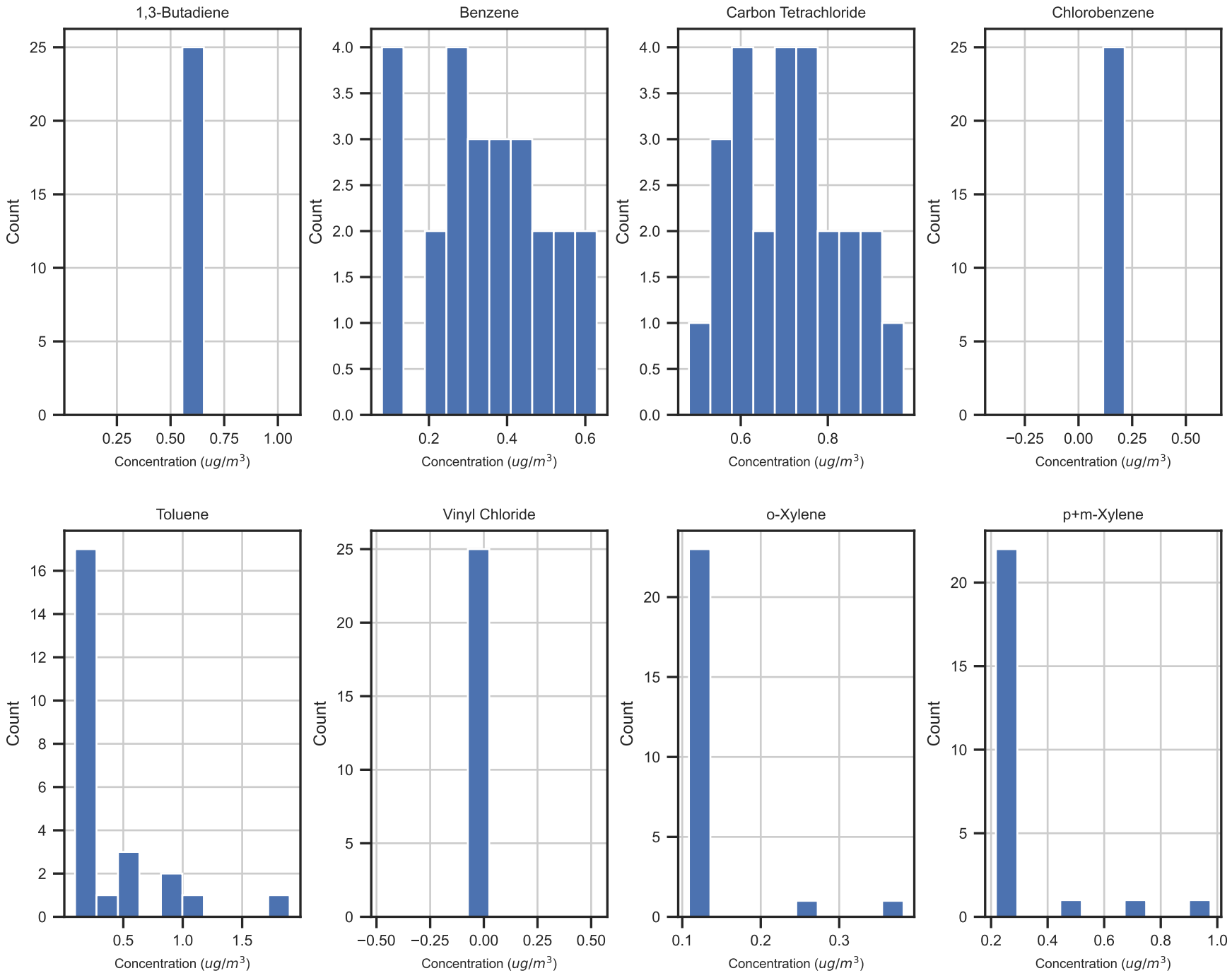
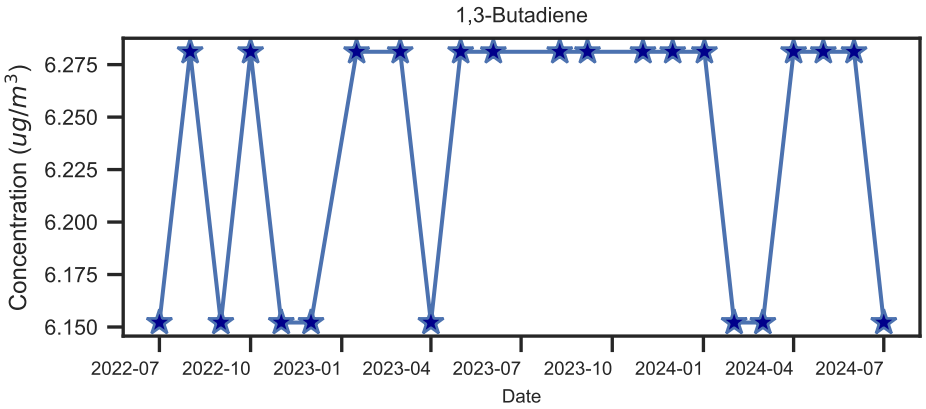
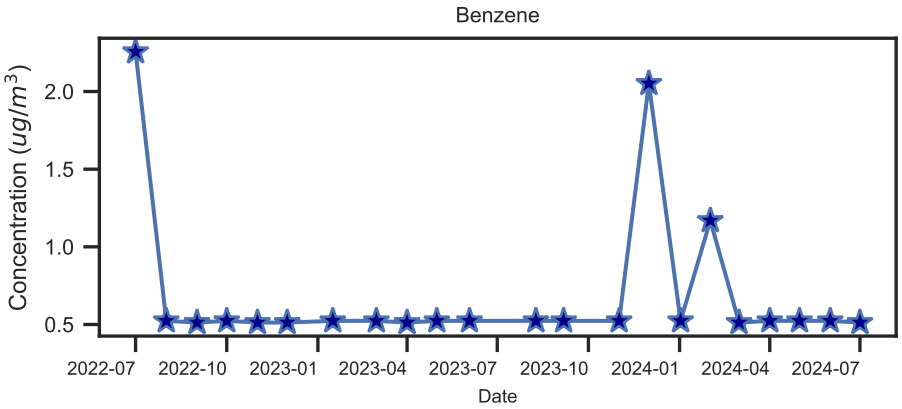
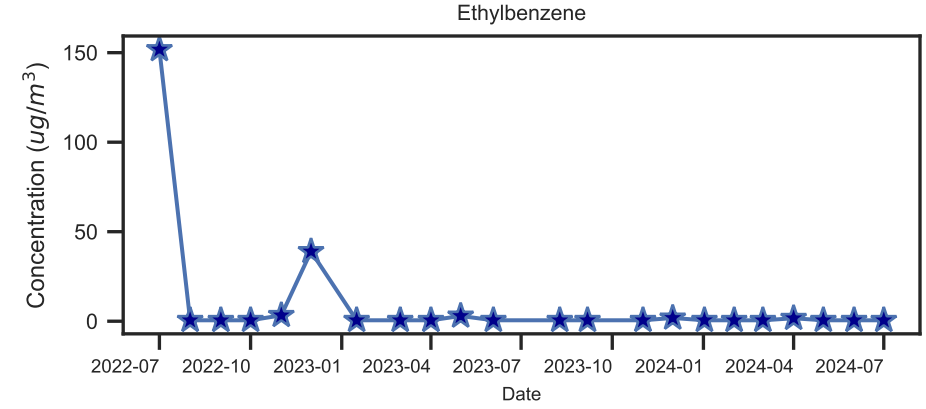
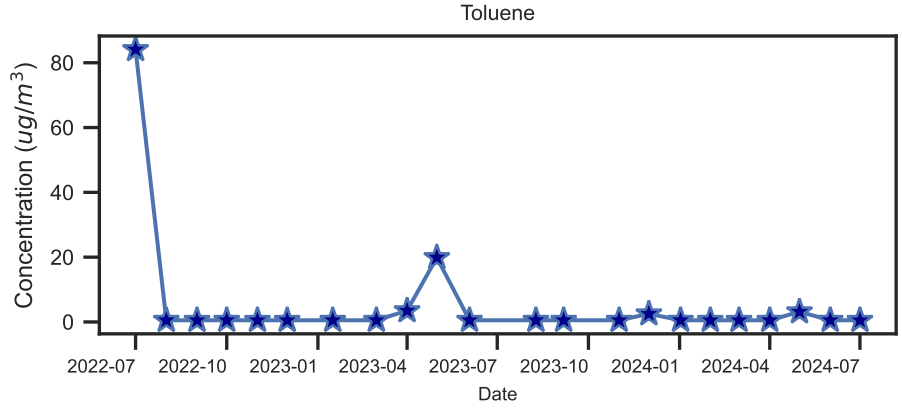


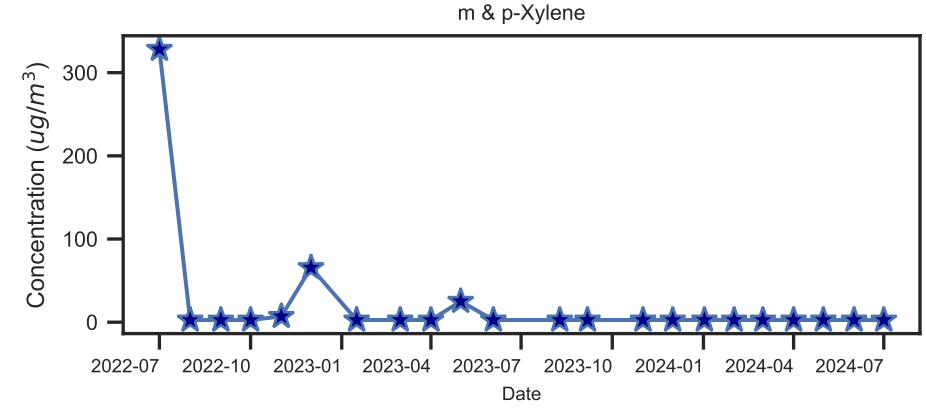
Figure A-7: Select VOC Line Plots, Method 325



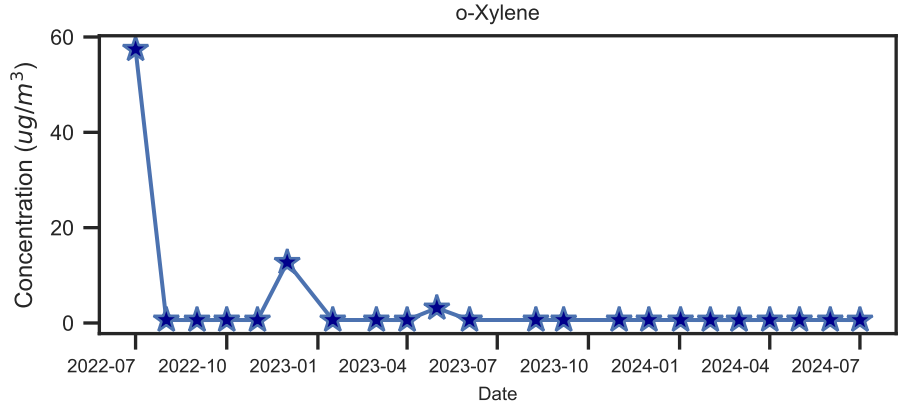



Figure A-8: Select VOC Histograms Method 325

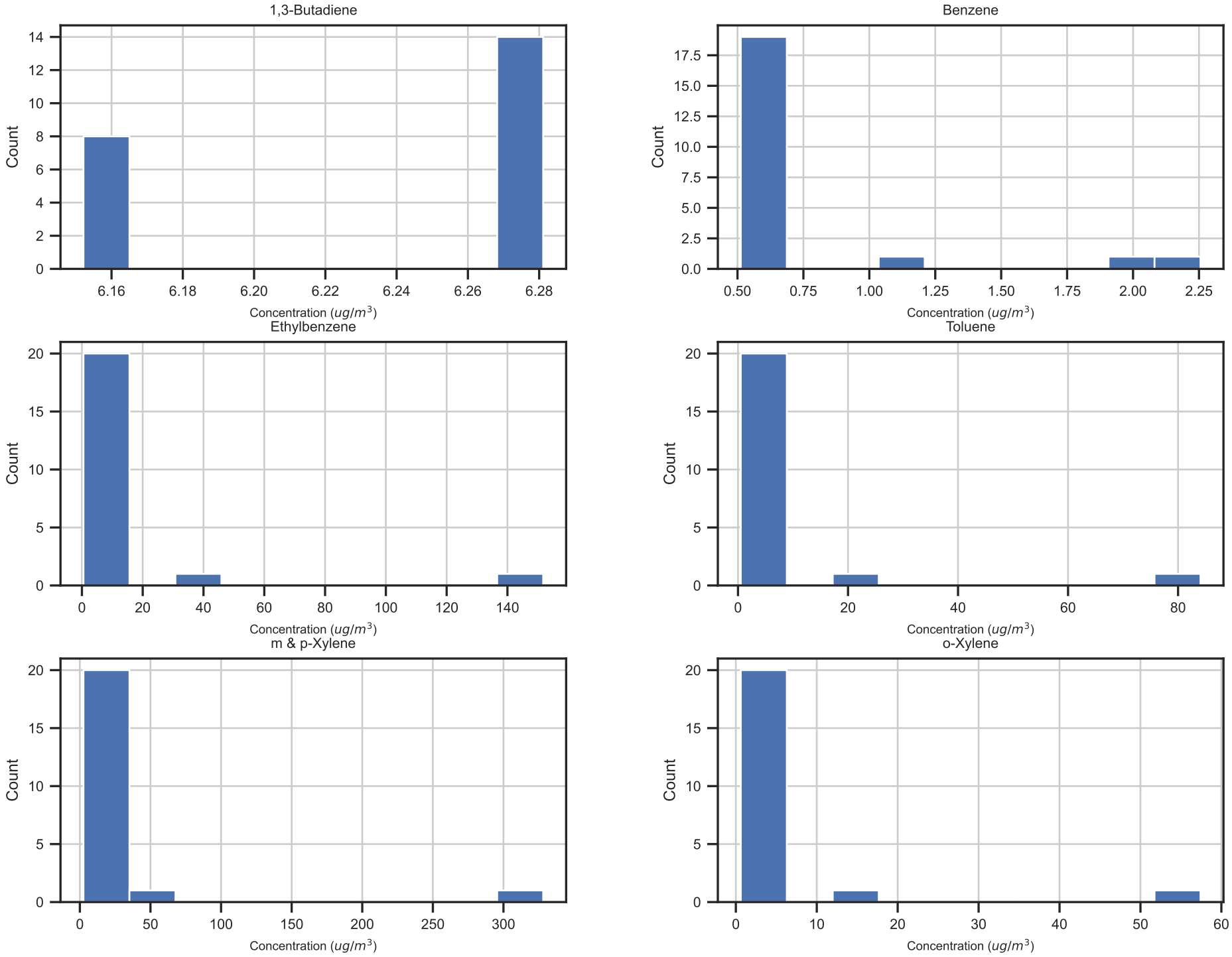


Figure A-9: Measured Polycyclic Aromatic Hydrocarbon Concentrations

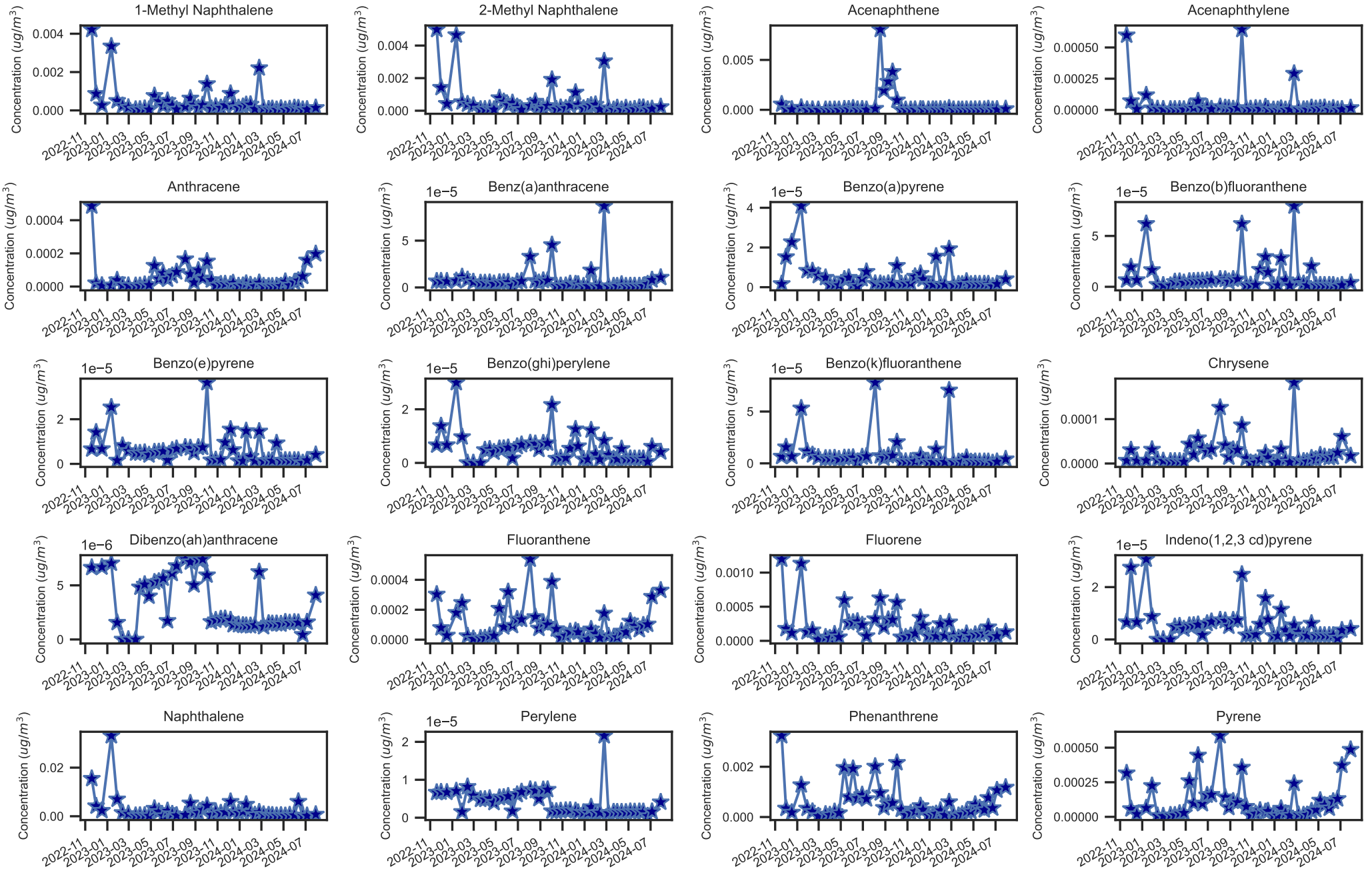
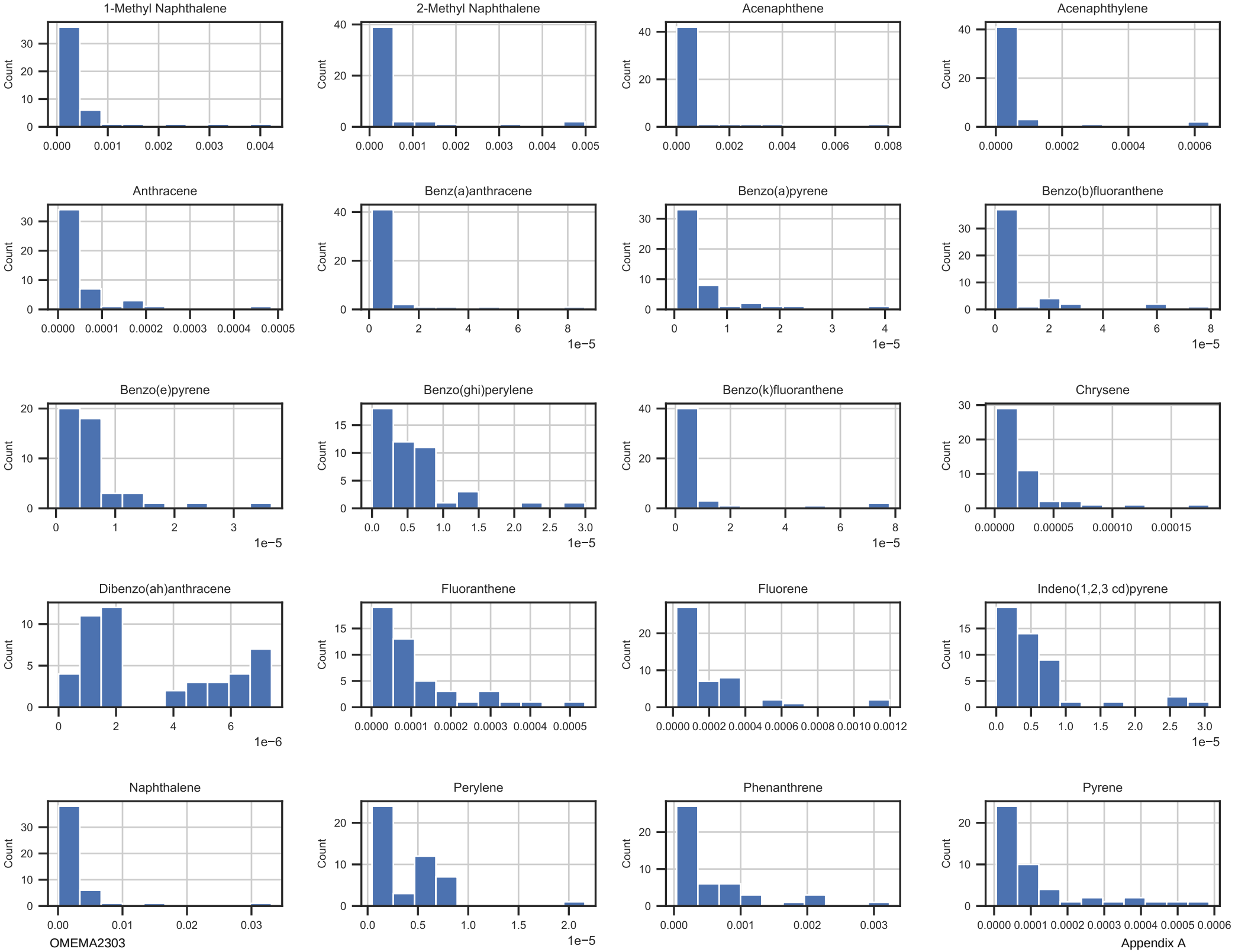
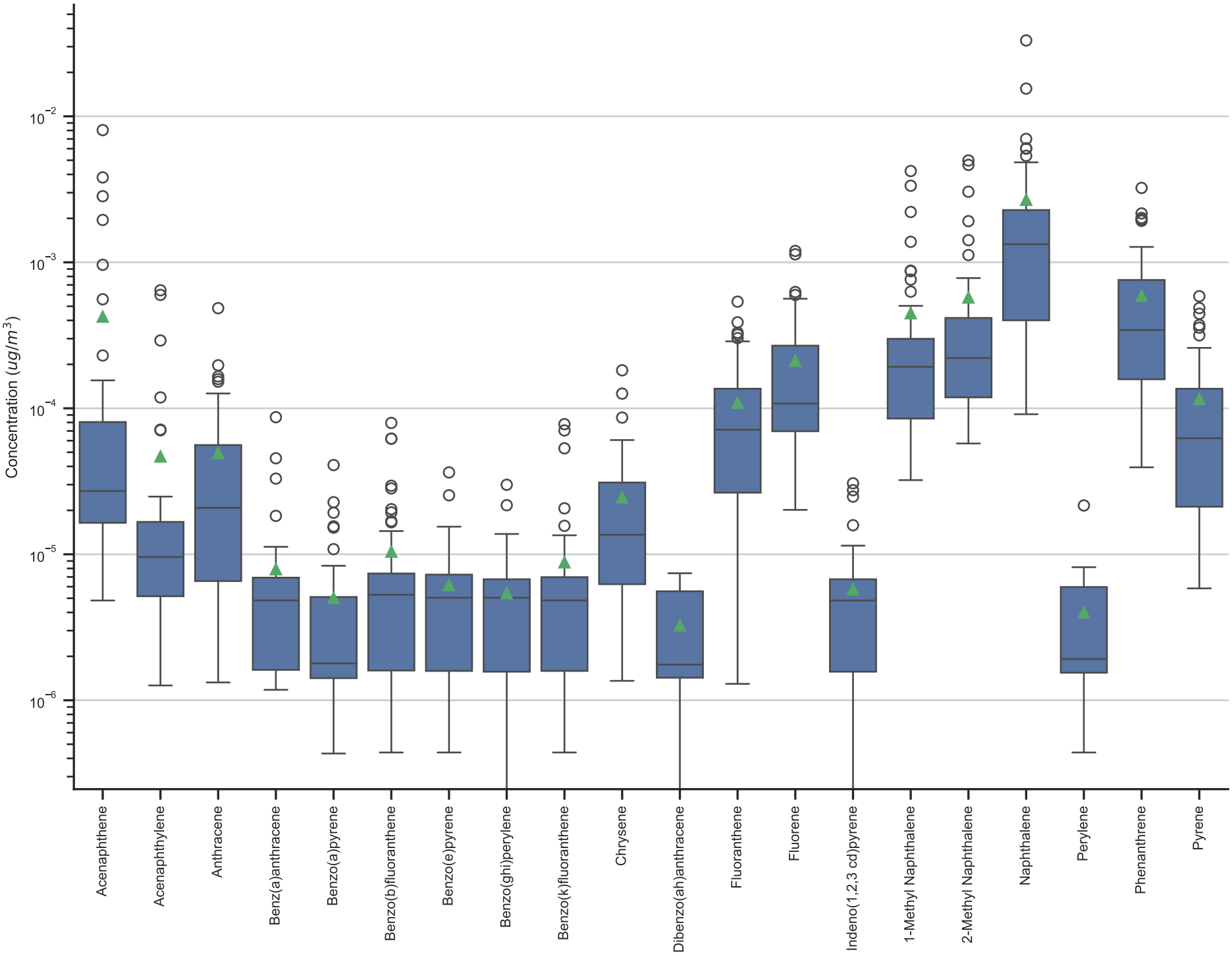
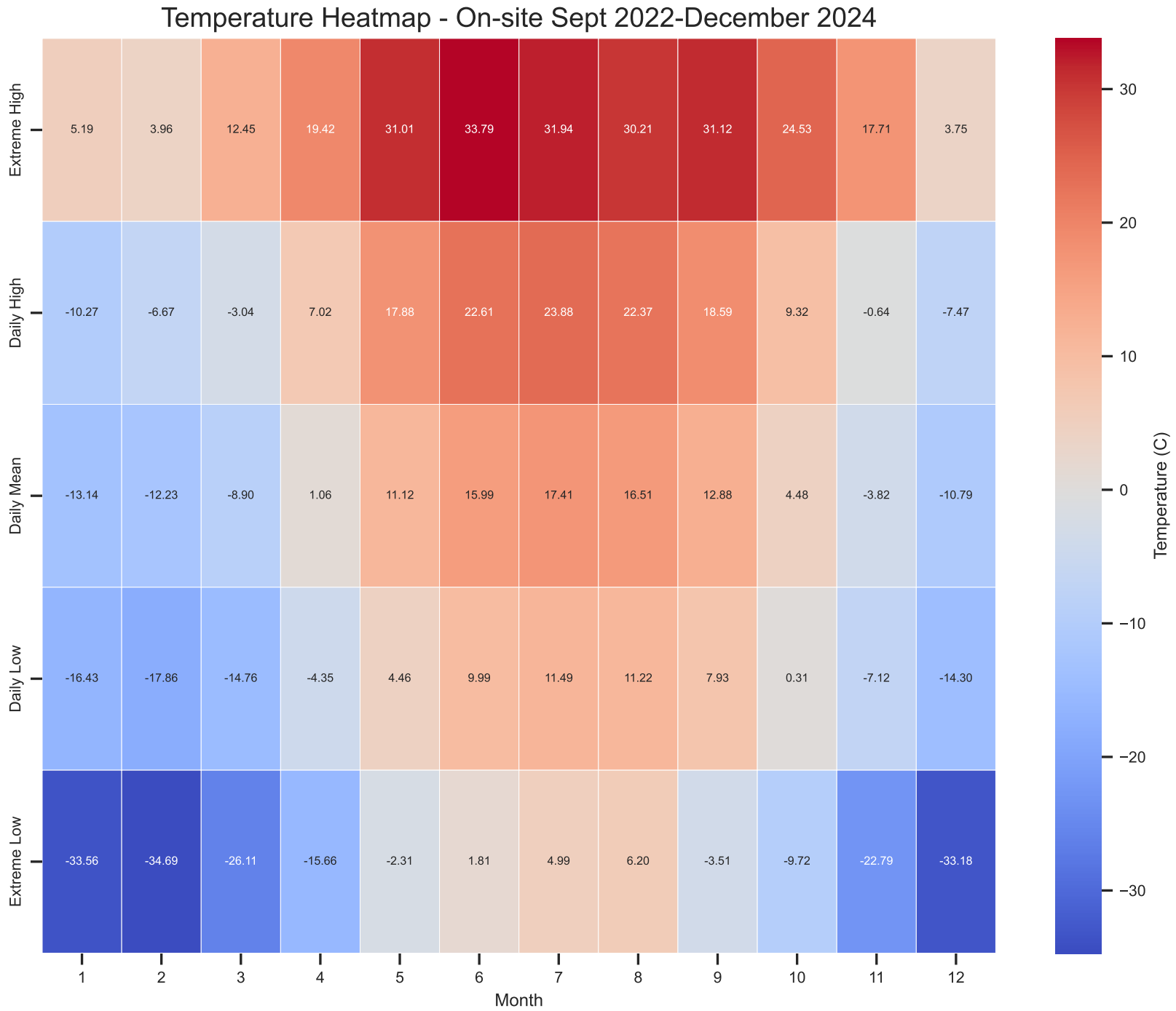


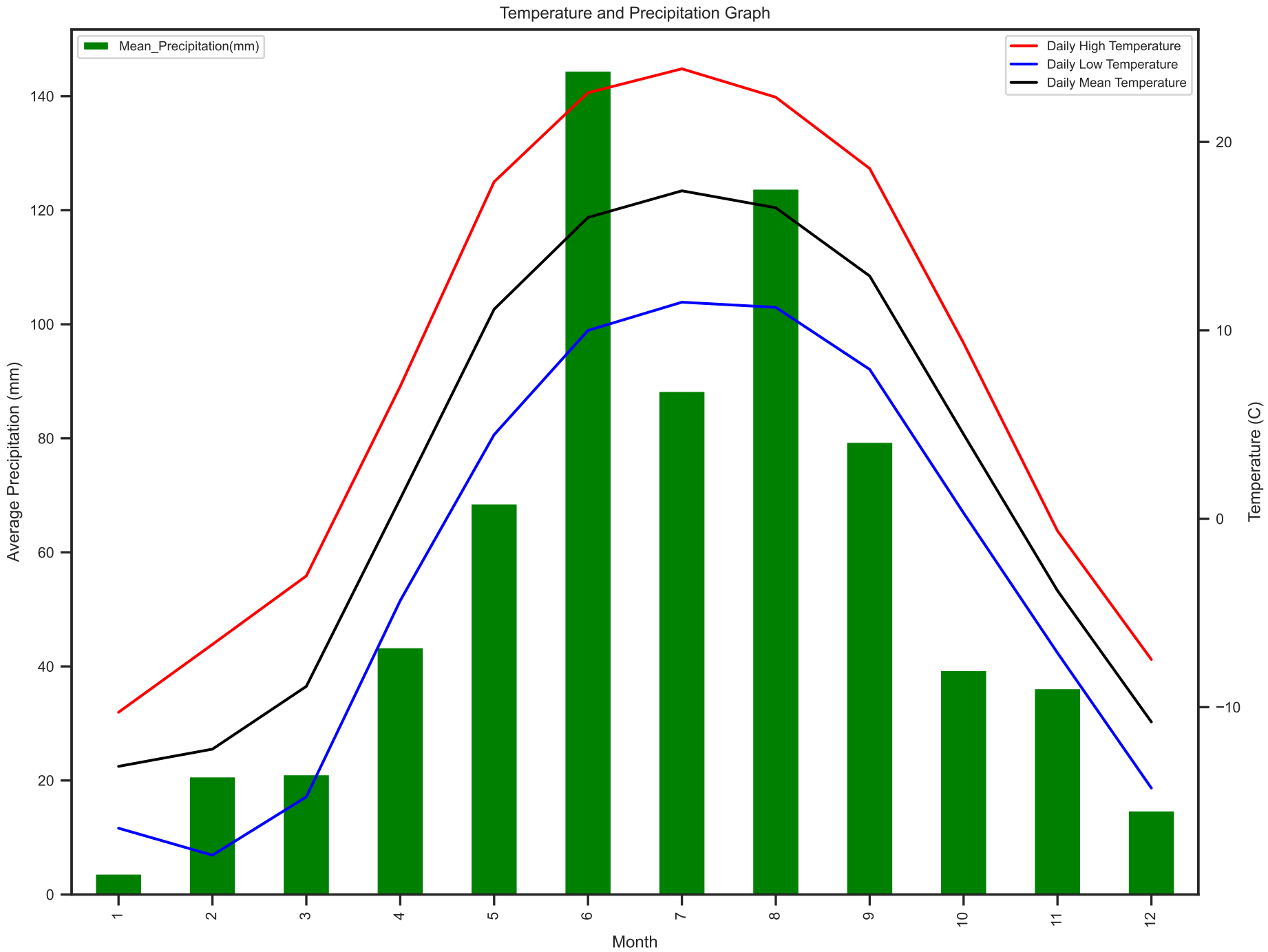
Figure A-10: Polycyclic Aromatic Hydrocarbon Histograms (ug/m3)



Polycyclic Aromatic Hydrocarbons Box Plot (log scale), Green Triangle Denotes Means




Temperature Heatmap - On-site Sept 2022-December 2024
Extreme High
Daily High
Daily Mean
Daily Low
Extreme Low
5.19 3.96 12.45 19.42 31.01 33.79 31.94 30.21 31.12 24.53 17.71 3.75
-10.27 -6.67 -3.04 7.02 17.88 22.61 23.88 22.37 18.59 9.32 -0.64 -7.47
-13.14 -12.23 -8.90 1.06 11.12 15.99 17.41 16.51 12.88 4.48 -3.82 -10.79
-16.43 -17.86 -14.76 -4.35 4.46 9.99 11.49 11.22 7.93 0.31 -7.12 -14.30
-33.56 -34.69 -26.11 -15.66 -2.31 1.81 4.99 6.20 -3.51 -9.72 -22.79 -33.18
1 2 3 4 5 6 7 8 9 10 11 12
Month
Temperature (C)
30
20
10
0
−10
−20
−30


Temperature and Precipitation Graph
Mean_Precipitation(mm)
Daily High Temperature
Daily Low Temperature
Daily Mean Temperature
Average Precipitation (mm)
Temperature (C)
Month
0
20
40
60
80
100
120
140
−10
0
10
20
1
2
3
4
5
6
7
8
9
10
11
12

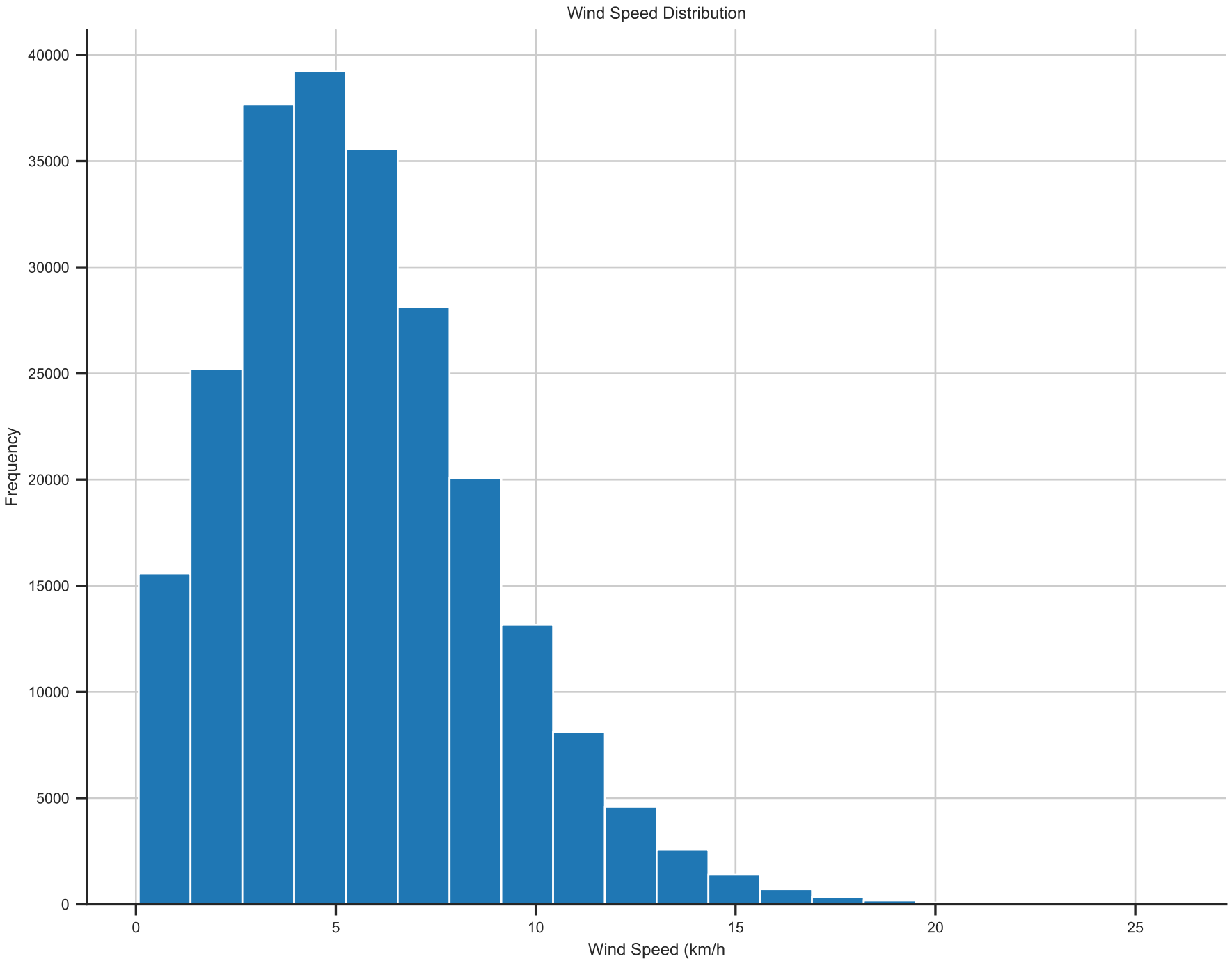
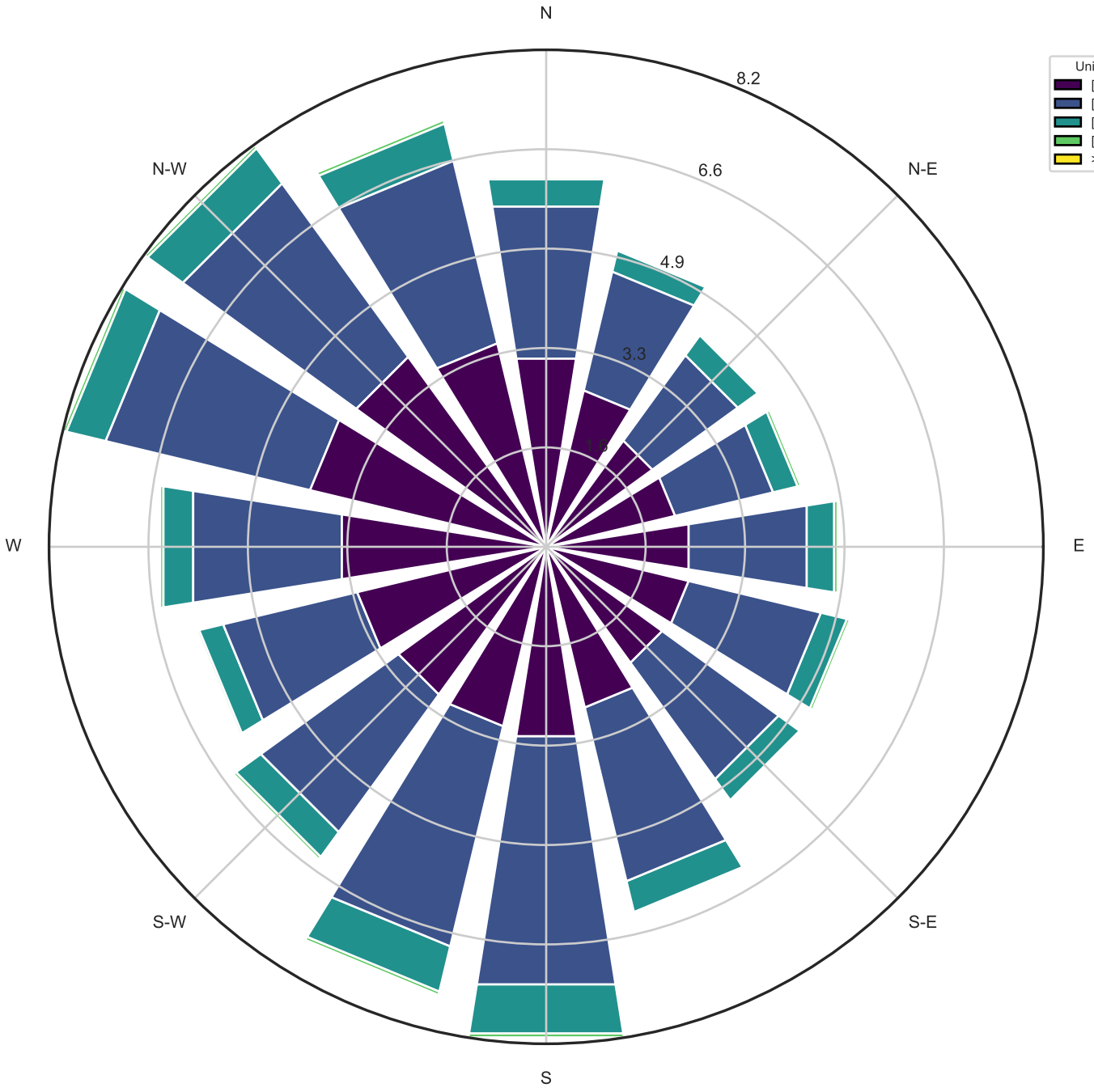
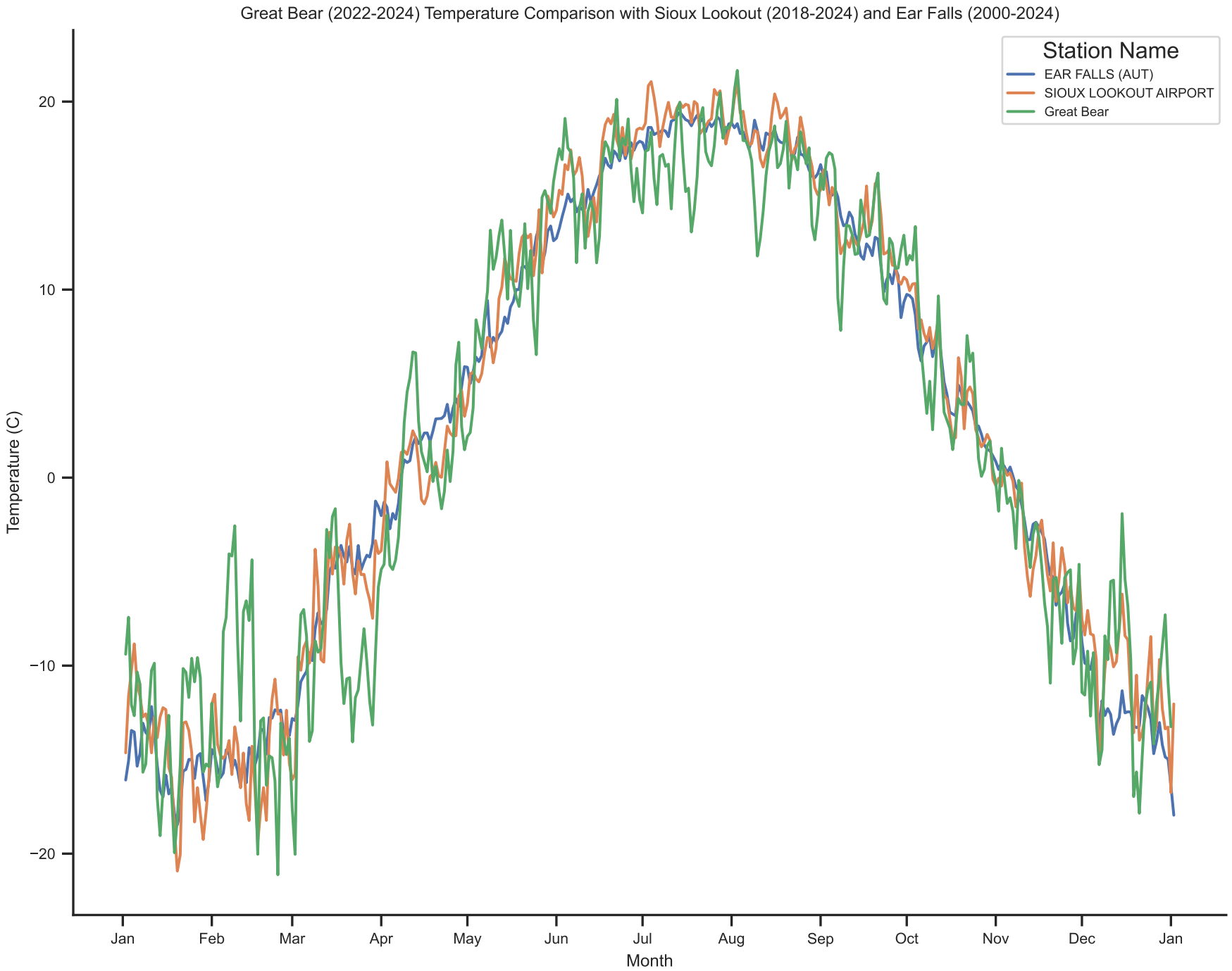
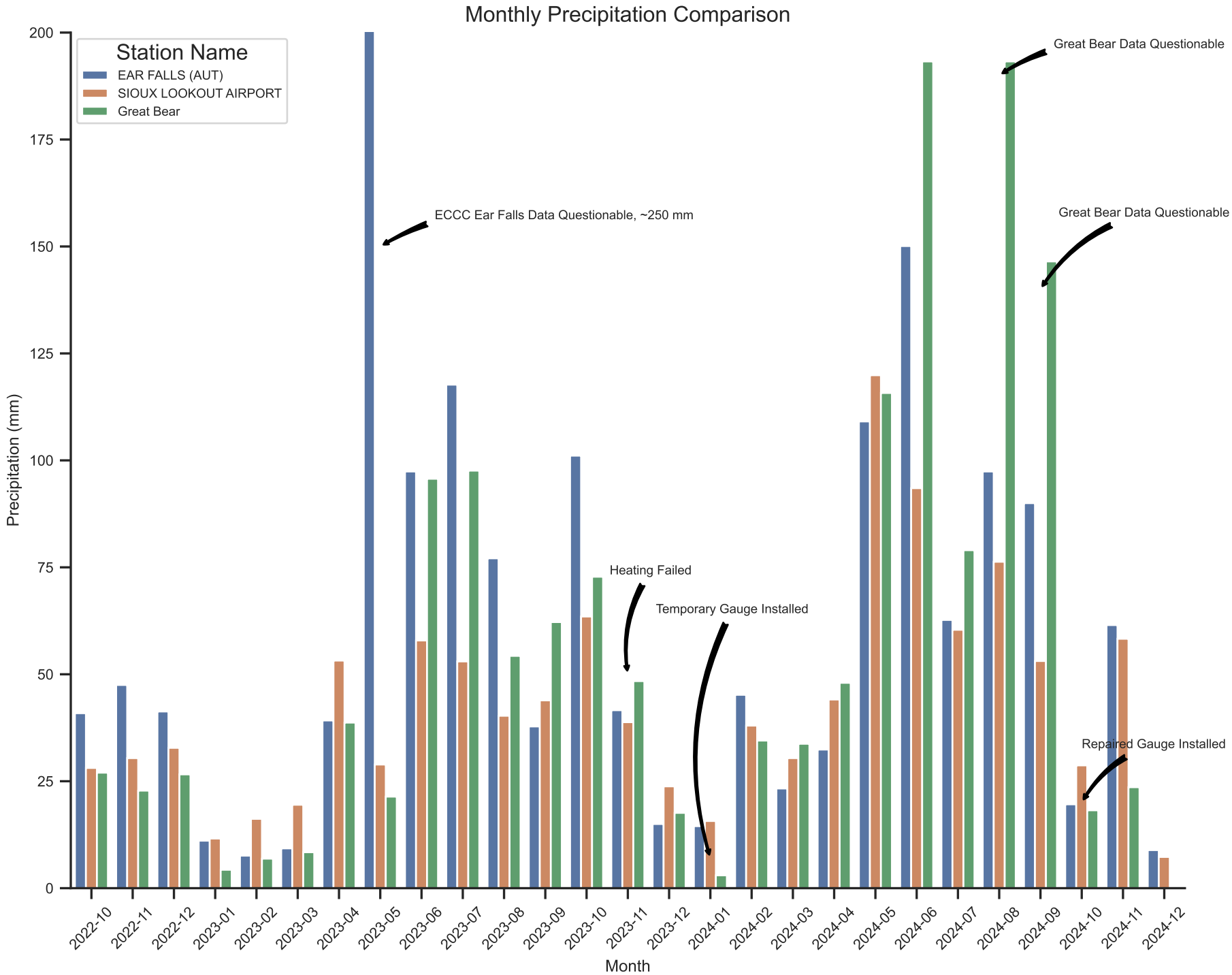
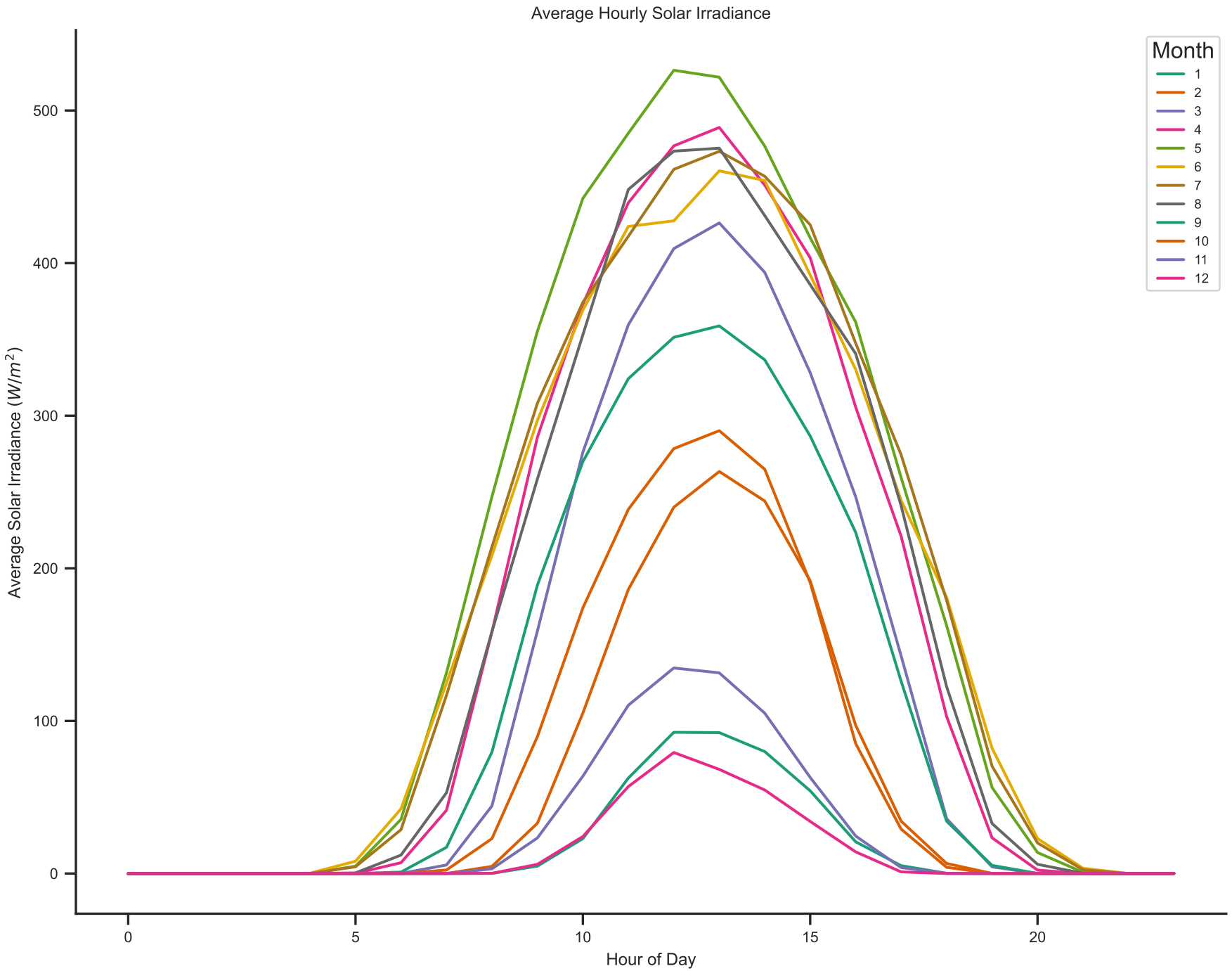

Wind Speed Distribution
Frequency
40000
35000
30000
25000
20000
15000
10000
5000
0
0
5
10
15
20
25
Wind Speed (km/h

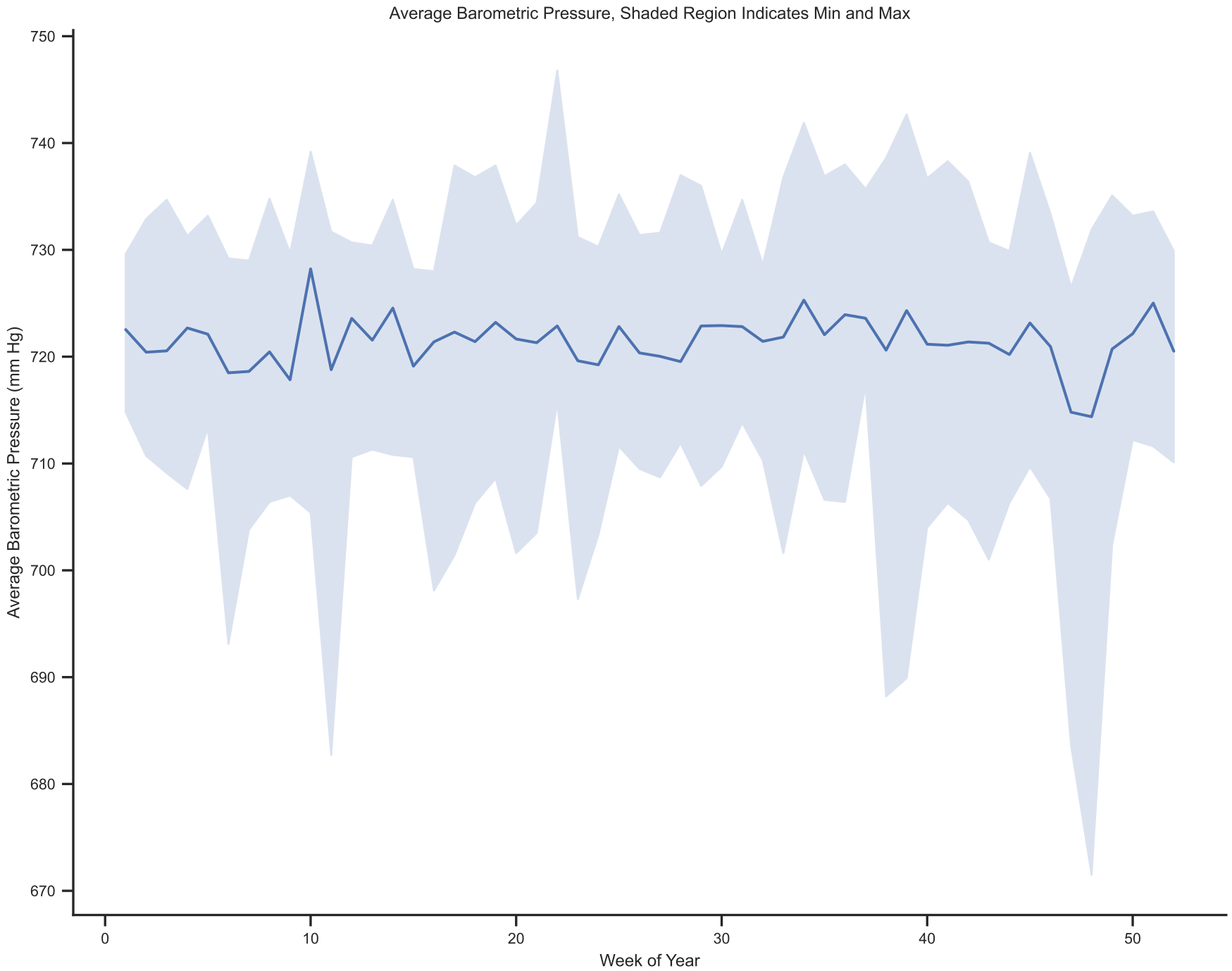
Figure A-15: Station 1 On-Site Wind Rose Sept 2022 to Dec 2024

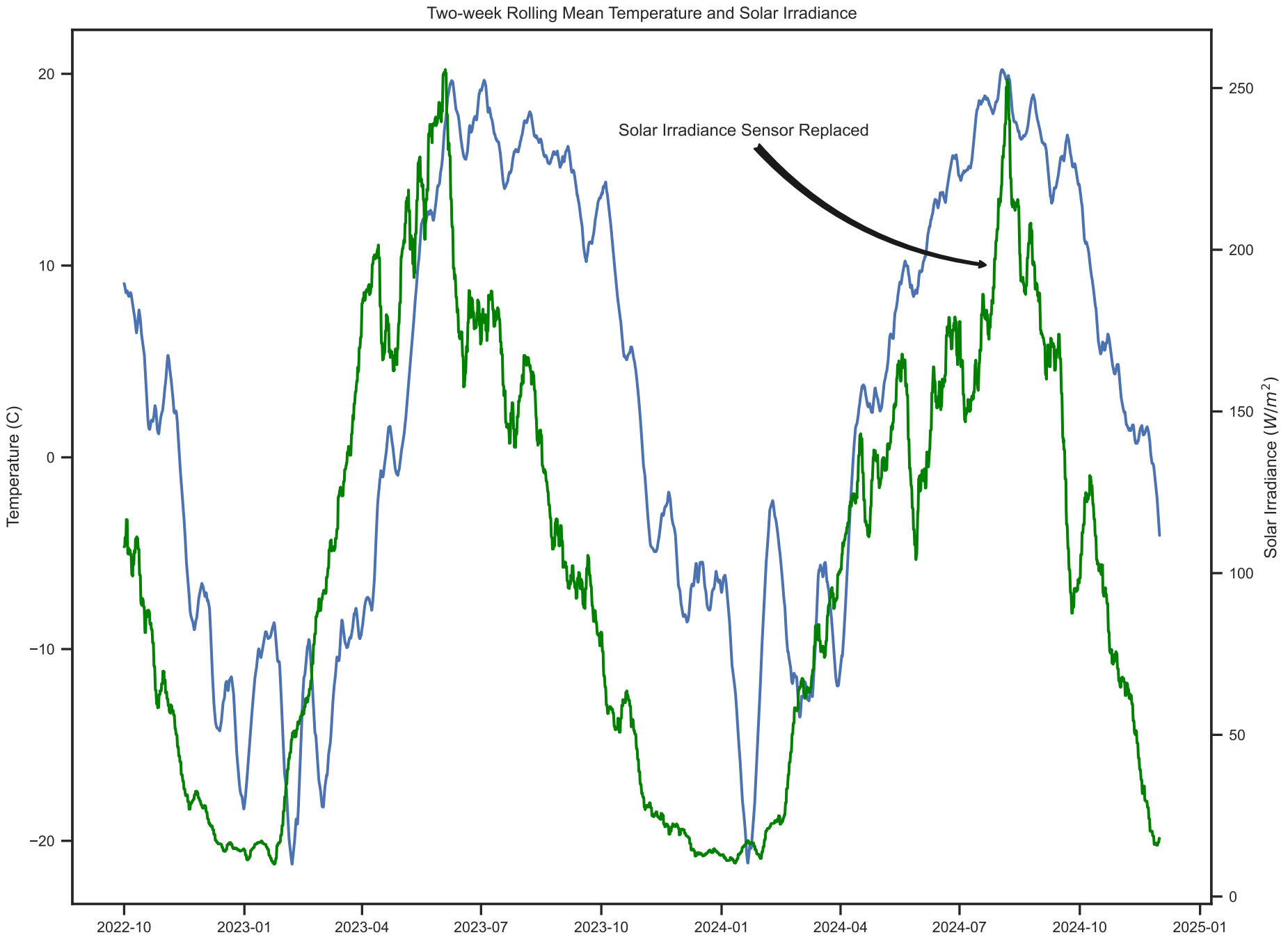


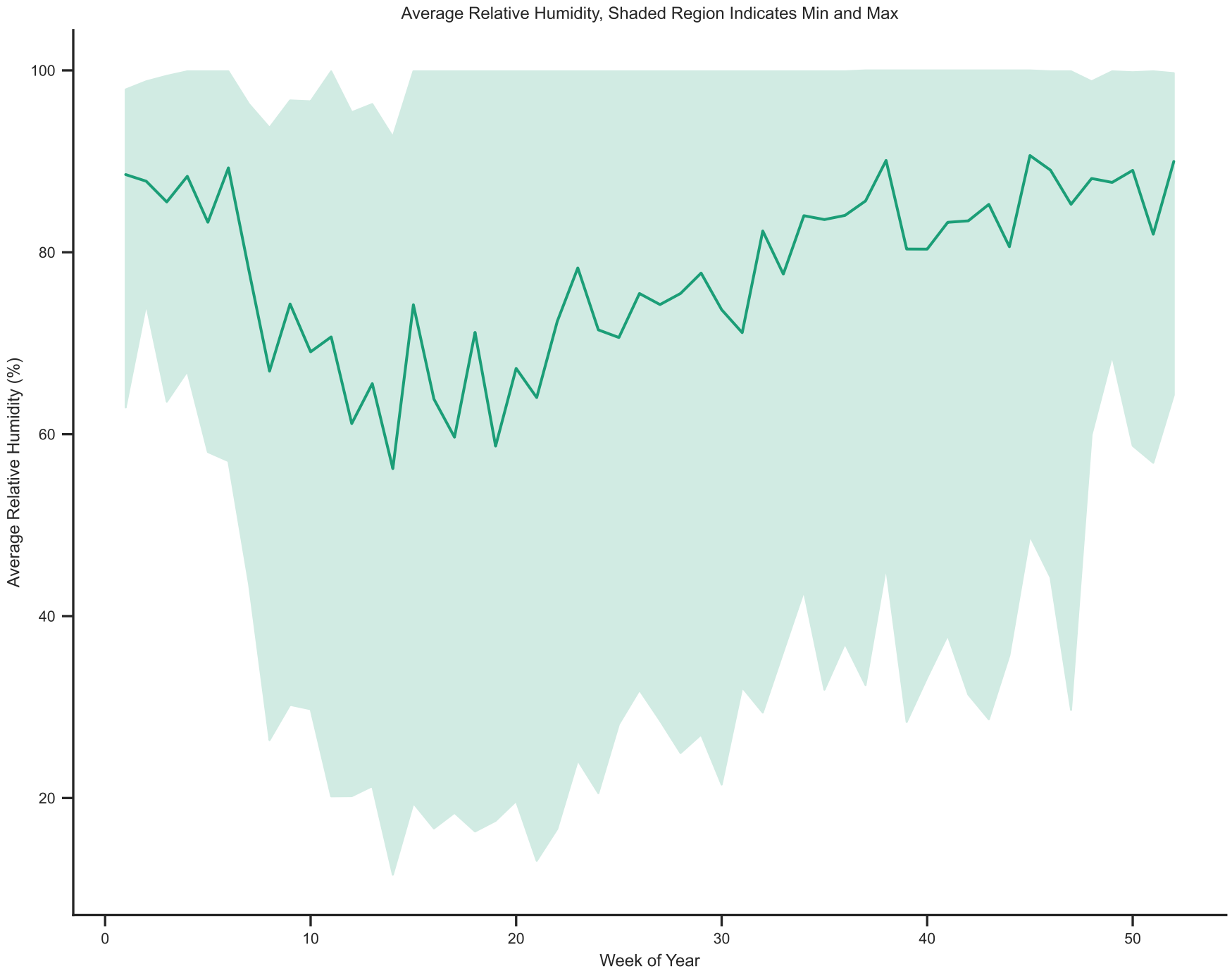

Great Bear (2022-2024) Temperature Comparison with Sioux Lookout (2018-2024) and Ear Falls (2000-2024)
Station Name
EAR FALLS (AUT)
SIOUX LOOKOUT AIRPORT
Great Bear
Temperature (C)
20
10
0
−10
−20
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Jan
Month


Monthly Precipitation Comparison
Station Name
EAR FALLS (AUT)
SIOUX LOOKOUT AIRPORT
Great Bear
Precipitation (mm)
Month
ECCC Ear Falls Data Questionable, ~250 mm
Great Bear Data Questionable
Great Bear Data Questionable
Heating Failed
Temporary Gauge Installed
Repaired Gauge Installed
0
25
50
75
100
125
150
175
200
2022-10
2022-11
2022-12
2023-01
2023-02
2023-03
2023-04
2023-05
2023-06
2023-07
2023-08
2023-09
2023-10
2023-11
2023-12
2024-01
2024-02
2024-03
2024-04
2024-05
2024-06
2024-07
2024-08
2024-09
2024-10
2024-11
2024-12


Average Hourly Solar Irradiance
Month
1
2
3
4
5
6
7
8
9
10
11
12
Average Solar Irradiance ($W/m^2$)
0
100
200
300
400
500
0
5
10
15
20
Hour of Day


Average Barometric Pressure, Shaded Region Indicates Min and Max
Average Barometric Pressure (mm Hg)
750
740
730
720
710
700
690
680
670
0
10
20
30
40
50
Week of Year


Temperature
Solar Irradiance
Two-week Rolling Mean Temperature and Solar Irradiance
Solar Irradiance Sensor Replaced
Temperature (C)
Solar Irradiance ($W/m^2$)
20
10
0
−10
−20
250
200
150
100
50
0
2022-10
2023-01
2023-04
2023-07
2023-10
2024-01
2024-04
2024-07
2024-10
2025-01


Average Relative Humidity, Shaded Region Indicates Min and Max
Average Relative Humidity (%)
100
80
60
40
20
0
10
20
30
40
50
Week of Year

# Appendix B
# Data Tables

**Particulate Concentrations (ug/m3)**

| Parameter | PM10 | | PM2.5 | | SPM | |
|---|---|---|---|---|---|---|
| | Conc | Detection | Conc | Detection | Conc | Detection |
| **Sampling Date** | | | | | | |
| **2022-06-29** | 13.5 | 1 | - | - | - | - |
| **2022-07-04** | 8.7 | 1 | - | - | - | - |
| **2022-07-10** | 13.9 | 1 | - | - | - | - |
| **2022-07-16** | 18.3 | 1 | - | - | - | - |
| **2022-07-22** | 7.3 | 1 | - | - | - | - |
| **2022-07-28** | 0.6 | 0 | - | - | - | - |
| **2022-08-03** | 0.6 | 0 | - | - | - | - |
| **2022-08-09** | 0.6 | 0 | - | - | - | - |
| **2022-08-18** | 0.6 | 0 | - | - | - | - |
| **2022-08-21** | 0.6 | 0 | - | - | - | - |
| **2022-08-27** | 0.6 | 0 | - | - | - | - |
| **2022-09-02** | 8.3 | 1 | - | - | - | - |
| **2022-09-08** | 4.2 | 1 | - | - | - | - |
| **2022-09-14** | 9 | 1 | - | - | - | - |
| **2022-09-20** | 4 | 1 | - | - | 15 | 1 |
| **2022-09-26** | 4.6 | 1 | - | - | 1.35 | 0 |
| **2022-10-02** | 9.3 | 1 | - | - | 18.8 | 1 |
| **2022-10-08** | 6 | 0 | - | - | 15.2 | 1 |
| **2022-10-14** | 6 | 0 | - | - | 2.2 | 0 |
| **2022-10-20** | 6 | 0 | - | - | 14.2 | 1 |
| **2022-10-26** | 6 | 0 | - | - | 2.21 | 0 |
| **2022-11-01** | - | - | - | - | 9.69 | 1 |
| **2022-11-02** | 7.4 | 1 | - | - | - | - |
| **2022-11-07** | - | - | - | - | 10.2 | 1 |
| **2022-11-13** | 6.5 | 1 | - | - | 2.39 | 0 |
| **2022-11-19** | 12.4 | 1 | - | - | 2.32 | 0 |
| **2022-11-25** | 6.6 | 1 | 7.8 | 1 | 2.22 | 0 |
| **2022-12-01** | 9.1 | 1 | 4.6 | 1 | 2.21 | 0 |
| **2022-12-07** | 3.5 | 1 | 3.2 | 1 | 2.69 | 0 |
| **2022-12-12** | 3.4 | 1 | 2 | 1 | 2.35 | 0 |
| **2022-12-18** | 0.6 | 0 | 0.6 | 0 | - | - |
| **2022-12-19** | - | - | - | - | 2.54 | 0 |
| **2022-12-25** | - | - | 4.2 | 1 | 2.76 | 0 |
| **2023-01-06** | 1.6 | 1 | - | - | 1.57 | 0 |
| **2023-01-12** | - | - | - | - | 20.1 | 1 |
| **2023-01-18** | - | - | - | - | 2.39 | 0 |
| **2023-01-24** | - | - | - | - | 2.33 | 0 |
| **2023-01-28** | 5.3 | 1 | 4 | 1 | - | - |
| **2023-01-30** | - | - | - | - | 2.18 | 0 |
| **2023-01-31** | 7.4 | 1 | 4.4 | 1 | - | - |
| **2023-02-07** | 8.5 | 1 | 3.7 | 1 | 1.9 | 0 |
| **2023-02-09** | 4.1 | 1 | 2.4 | 1 | - | - |

**Particulate Concentrations (ug/m3)**

| Parameter | PM10 | | PM2.5 | | SPM | |
|---|---|---|---|---|---|---|
| | Conc | Detection | Conc | Detection | Conc | Detection |
| **Sampling Date** | | | | | | |
| **2023-02-12** | - | - | - | - | 2.38 | 0 |
| **2023-02-14** | 0.6 | 0 | 0.6 | 0 | - | - |
| **2023-02-15** | 2.8 | 1 | 2.7 | 1 | - | - |
| **2023-02-17** | 4.9 | 1 | 3.4 | 1 | 2.42 | 0 |
| **2023-02-23** | - | - | - | - | 2.39 | 0 |
| **2023-02-28** | 4.9 | 1 | 3.1 | 1 | 1.63 | 0 |
| **2023-03-02** | 6.6 | 1 | 3.8 | 1 | - | - |
| **2023-03-08** | 5.8 | 1 | 3.8 | 1 | 1.59 | 0 |
| **2023-03-11** | 3.5 | 1 | 1.8 | 1 | - | - |
| **2023-03-14** | 7.1 | 1 | 1.5 | 1 | 3.35 | 1 |
| **2023-03-17** | 5.4 | 1 | 3.3 | 1 | - | - |
| **2023-03-20** | - | - | - | - | 1.51 | 0 |
| **2023-03-21** | 2.5 | 1 | 2.4 | 1 | - | - |
| **2023-03-26** | - | - | - | - | 1.55 | 0 |
| **2023-03-29** | 7.5 | 1 | 4.5 | 1 | - | - |
| **2023-04-01** | - | - | 2.6 | 1 | 1.57 | 0 |
| **2023-04-04** | - | - | 3.6 | 1 | - | - |
| **2023-04-07** | - | - | - | - | 3.9 | 1 |
| **2023-04-08** | 3.9 | 1 | 3.1 | 1 | - | - |
| **2023-04-10** | 7.3 | 1 | 5.3 | 1 | - | - |
| **2023-04-13** | 3.3 | 1 | 3.4 | 1 | 1.44 | 0 |
| **2023-04-16** | 4.6 | 1 | - | - | - | - |
| **2023-04-19** | 4.5 | 1 | 3.4 | 1 | 5.65 | 1 |
| **2023-04-23** | 3.3 | 1 | - | - | - | - |
| **2023-04-26** | 5.3 | 1 | 4.2 | 1 | 4.81 | 1 |
| **2023-04-29** | 3.5 | 1 | 2.4 | 1 | - | - |
| **2023-05-02** | - | - | - | - | 1.54 | 0 |
| **2023-05-05** | 3.3 | 1 | 2.8 | 1 | - | - |
| **2023-05-08** | 33.9 | 1 | - | - | 6.68 | 1 |
| **2023-05-11** | 7.2 | 1 | - | - | - | - |
| **2023-05-14** | 50.4 | 1 | - | - | 8.41 | 1 |
| **2023-05-17** | 100 | 1 | 5.3 | 1 | 14.4 | 1 |
| **2023-05-20** | 14.7 | 1 | 7.5 | 1 | - | - |
| **2023-05-23** | 20.2 | 1 | 8.8 | 1 | 13.5 | 1 |
| **2023-05-26** | 45.8 | 1 | 10.1 | 1 | - | - |
| **2023-05-29** | 42.2 | 1 | 7.6 | 1 | 31.1 | 1 |
| **2023-06-02** | 16.7 | 1 | 9.6 | 1 | - | - |
| **2023-06-04** | - | - | 8.8 | 1 | 10.8 | 1 |
| **2023-06-10** | 4.9 | 1 | 8.6 | 1 | 3.85 | 1 |
| **2023-06-16** | 24 | 1 | 17.2 | 1 | 29.7 | 1 |
| **2023-06-23** | 10.2 | 1 | 6.1 | 1 | 4.85 | 1 |
| **2023-06-29** | 11.9 | 1 | 9.9 | 1 | 17 | 1 |

**Particulate Concentrations (ug/m3)**

| Parameter | PM10 | | PM2.5 | | SPM | |
|---|---|---|---|---|---|---|
| | Conc | Detection | Conc | Detection | Conc | Detection |
| **Sampling Date** | | | | | | |
| **2023-07-05** | 2.7 | 1 | 4.9 | 1 | 1.3 | 0 |
| **2023-07-11** | 6.6 | 1 | 4.1 | 1 | 5.81 | 1 |
| **2023-07-17** | 7.8 | 1 | 4.4 | 1 | 4.39 | 1 |
| **2023-07-23** | 8.3 | 1 | 4.7 | 1 | 2.79 | 1 |
| **2023-07-29** | 4.3 | 1 | 3.8 | 1 | 4.8 | 1 |
| **2023-08-05** | 16.9 | 1 | 15.6 | 1 | 21.4 | 1 |
| **2023-08-10** | 6.7 | 1 | 4.1 | 1 | 9.27 | 1 |
| **2023-08-17** | 73.7 | 1 | 71.8 | 1 | 33.9 | 1 |
| **2023-08-22** | 16.3 | 1 | 11.4 | 1 | 22.1 | 1 |
| **2023-08-28** | 10.7 | 1 | 7.3 | 1 | 15.2 | 1 |
| **2023-09-03** | 51.1 | 1 | 47.9 | 1 | 68.5 | 1 |
| **2023-09-09** | 18.3 | 1 | 14.2 | 1 | - | - |
| **2023-09-15** | 12.1 | 1 | 8.4 | 1 | - | - |
| **2023-09-21** | 26.3 | 1 | 21.8 | 1 | 29.3 | 1 |
| **2023-09-27** | 10.2 | 1 | 9.4 | 1 | 13.2 | 1 |
| **2023-10-03** | 16.2 | 1 | 9.7 | 1 | 25.1 | 1 |
| **2023-10-09** | 3.4 | 1 | 3.4 | 1 | 3.87 | 1 |
| **2023-10-15** | 5.6 | 1 | 3.5 | 1 | 4.68 | 1 |
| **2023-10-21** | 4.7 | 1 | 2.5 | 1 | 4.5 | 1 |
| **2023-10-27** | 3.5 | 1 | 1.8 | 1 | 3.8 | 1 |
| **2023-11-02** | 5.6 | 1 | 4.4 | 1 | 4.04 | 1 |
| **2023-11-08** | 2.4 | 1 | 2.9 | 1 | 1.37 | 0 |
| **2023-11-14** | 4.1 | 1 | 3 | 1 | 7.28 | 1 |
| **2023-11-20** | 5.5 | 1 | 4 | 1 | 3.53 | 1 |
| **2023-11-22** | 0.6 | 0 | - | - | - | - |
| **2023-11-26** | 4.6 | 1 | 1.3 | 1 | 7.84 | 1 |
| **2023-12-02** | 4.6 | 1 | - | - | 1.44 | 0 |
| **2023-12-08** | 0.6 | 0 | - | - | 1.56 | 0 |
| **2023-12-14** | - | - | 1.6 | 1 | 1.48 | 0 |
| **2023-12-20** | - | - | 0.6 | 0 | 1.36 | 0 |
| **2023-12-26** | 1.6 | 1 | - | - | 1.38 | 0 |
| **2023-12-29** | 1.8 | 1 | - | - | - | - |
| **2023-12-30** | 2.4 | 1 | - | - | - | - |
| **2023-12-31** | - | - | 1.9 | 1 | 1.4 | 0 |
| **2024-01-04** | 2.9 | 1 | 1.3 | 1 | 1.36 | 0 |
| **2024-01-10** | 2.3 | 1 | 2.9 | 1 | 1.33 | 0 |
| **2024-01-13** | - | - | - | - | 1.32 | 0 |
| **2024-01-19** | 2.9 | 1 | 2.9 | 1 | 1.43 | 0 |
| **2024-01-25** | 6.4 | 1 | 1.9 | 1 | 6.18 | 1 |
| **2024-01-31** | 4.5 | 1 | 2.1 | 1 | 1.29 | 0 |
| **2024-02-02** | - | - | 3.1 | 1 | - | - |
| **2024-02-06** | 6.1 | 1 | 2.1 | 1 | 1.41 | 0 |

**Particulate Concentrations (ug/m3)**

| Parameter | PM10 | | PM2.5 | | SPM | |
|---|---|---|---|---|---|---|
| | Conc | Detection | Conc | Detection | Conc | Detection |
| **Sampling Date** | | | | | | |
| **2024-02-12** | 7.5 | 1 | - | - | 1.4 | 0 |
| **2024-02-13** | - | - | 0.6 | 0 | - | - |
| **2024-02-18** | 6.4 | 1 | 0.6 | 0 | 1.35 | 0 |
| **2024-02-24** | 7.1 | 1 | 2.3 | 1 | 1.38 | 0 |
| **2024-03-01** | 7.3 | 1 | 4 | 1 | 5.57 | 1 |
| **2024-03-07** | 5.3 | 1 | 2.9 | 1 | 3.1 | 1 |
| **2024-03-13** | 6.6 | 1 | 1.6 | 1 | 1.31 | 0 |
| **2024-03-19** | 3.5 | 1 | 0.6 | 0 | 5.34 | 1 |
| **2024-03-25** | 2.7 | 1 | 2.7 | 1 | 1.43 | 0 |
| **2024-03-31** | 3.6 | 1 | 1.2 | 1 | 1.42 | 0 |
| **2024-04-06** | 3.1 | 1 | 2.2 | 1 | 3.28 | 1 |
| **2024-04-12** | 3.1 | 1 | 2.6 | 1 | 1.93 | 0 |
| **2024-04-18** | 2.4 | 1 | 1.5 | 1 | 1.39 | 0 |
| **2024-04-24** | 5.2 | 1 | 2.7 | 1 | 4.67 | 1 |
| **2024-04-30** | - | - | 3.9 | 1 | 1.37 | 0 |
| **2024-05-06** | - | - | 2.5 | 1 | 4.01 | 1 |
| **2024-05-12** | 21.2 | 1 | 17.2 | 1 | 27.6 | 1 |
| **2024-05-18** | 3.8 | 1 | 3 | 1 | 23.8 | 1 |
| **2024-05-24** | 4.4 | 1 | 2.4 | 1 | 14.7 | 1 |
| **2024-05-26** | 4 | 1 | - | - | - | - |
| **2024-05-30** | 8.7 | 1 | 4.2 | 1 | 21.3 | 1 |
| **2024-06-05** | 10.4 | 1 | 7.6 | 1 | 40.4 | 1 |
| **2024-06-11** | 7.3 | 1 | 4.1 | 1 | 8.77 | 1 |
| **2024-06-17** | 8.6 | 1 | 3.5 | 1 | 11.3 | 1 |
| **2024-06-23** | 8.6 | 1 | 5.1 | 1 | 8.85 | 1 |
| **2024-06-29** | 4.6 | 1 | 3.2 | 1 | 3.79 | 1 |
| **2024-07-05** | 8.1 | 1 | 6.4 | 1 | 10.1 | 1 |
| **2024-07-11** | 26.4 | 1 | 14.6 | 1 | 21.7 | 1 |
| **2024-07-17** | 5.8 | 1 | 3.2 | 1 | 1.35 | 0 |
| **2024-07-23** | 8.1 | 1 | 4.5 | 1 | 5.62 | 1 |
| **2024-07-29** | 46.9 | 1 | 11.7 | 1 | 15.5 | 1 |
| **2024-08-04** | 0.6 | 0 | 4.3 | 1 | 7.98 | 1 |
| **2024-08-10** | 4.3 | 1 | 3.7 | 1 | 7.62 | 1 |
| **2024-08-16** | - | - | - | - | 16.5 | 1 |

**Metal Concentrations (ug/m3)**

| Parameter | Arsenic (As) | | Cadmium (Cd) | | Chromium (Cr) | | Cobalt (Co) | | Copper (Cu) | | Iron (Fe) | | Lead (Pb) | | Lithium (Li) | | Manganese (Mn) | | Mercury (Hg) | | Nickel (Ni) | | Selenium (Se) | | Sulphur (S) | | Vanadium (V) | | Zinc (Zn) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Conc | Detection | Conc | Detection | Conc | Detection | Conc | Detection | Conc | Detection | Conc | Detection | Conc | Detection | Conc | Detection | Conc | Detection | Conc | Detection | Conc | Detection | Conc | Detection | Conc | Detection | Conc | Detection | Conc | Detection |
| **Sampling Date** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **2022-09-20** | 0.0025 | 0 | 0.000834 | 0 | 0.0021 | 0 | 0.000834 | 0 | 0.0431 | 1 | 0.0784 | 1 | 0.00125 | 0 | 0.0113 | 0 | 0.00576 | 1 | 0.00000834 | 0 | 0.00125 | 0 | 0.00417 | 0 | 0.456 | 1 | 0.00209 | 0 | 0.0257 | 1 |
| **2022-09-26** | 0.00162 | 0 | 0.00054 | 0 | 0.0014 | 0 | 0.00054 | 0 | 0.0556 | 1 | 0.04 | 1 | 0.00081 | 0 | 0.00729 | 0 | 0.0014 | 1 | 0.0000054 | 0 | 0.00081 | 0 | 0.0027 | 0 | 0.138 | 1 | 0.00135 | 0 | 0.0248 | 1 |
| **2022-10-02** | 0.00265 | 0 | 0.000884 | 0 | 0.0022 | 0 | 0.000884 | 0 | 0.0564 | 1 | 0.207 | 1 | 0.00292 | 1 | 0.0119 | 0 | 0.00937 | 1 | 0.00000884 | 0 | 0.00133 | 0 | 0.00442 | 0 | 0.603 | 1 | 0.00221 | 0 | 0.0267 | 1 |
| **2022-10-08** | 0.00272 | 0 | 0.000908 | 0 | 0.0023 | 0 | 0.000908 | 0 | 0.0891 | 1 | 0.337 | 1 | 0.00136 | 0 | 0.0123 | 0 | 0.0211 | 1 | 0.00000908 | 0 | 0.00136 | 0 | 0.00454 | 0 | 0.407 | 1 | 0.00227 | 0 | 0.0152 | 1 |
| **2022-10-14** | 0.00263 | 0 | 0.000878 | 0 | 0.0022 | 0 | 0.000878 | 0 | 0.0522 | 1 | 0.022 | 0 | 0.00132 | 0 | 0.0119 | 0 | 0.00123 | 1 | 0.00000878 | 0 | 0.00132 | 0 | 0.00439 | 0 | 0.113 | 1 | 0.0022 | 0 | 0.0065 | 1 |
| **2022-10-20** | 0.00271 | 0 | 0.000904 | 0 | 0.0023 | 0 | 0.000904 | 0 | 0.0429 | 1 | 0.2 | 1 | 0.00136 | 0 | 0.0122 | 0 | 0.0134 | 1 | 0.00000904 | 0 | 0.00136 | 0 | 0.00452 | 0 | 0.21 | 1 | 0.00226 | 0 | 0.00849 | 1 |
| **2022-10-26** | 0.00265 | 0 | 0.000883 | 0 | 0.0022 | 0 | 0.000883 | 0 | 0.067 | 1 | 0.0565 | 1 | 0.00133 | 0 | 0.0119 | 0 | 0.00177 | 1 | 0.00000883 | 0 | 0.00133 | 0 | 0.00442 | 0 | 0.182 | 1 | 0.00221 | 0 | 0.0083 | 1 |
| **2022-11-01** | 0.0026 | 0 | 0.000865 | 0 | 0.0022 | 0 | 0.000865 | 0 | 0.0696 | 1 | 0.132 | 1 | 0.0013 | 0 | 0.0117 | 0 | 0.00467 | 1 | 0.00000865 | 0 | 0.0013 | 0 | 0.00433 | 0 | 0.332 | 1 | 0.00216 | 0 | 0.00597 | 1 |
| **2022-11-07** | 0.00265 | 0 | 0.000885 | 0 | 0.0022 | 0 | 0.000885 | 0 | 0.0708 | 1 | 0.181 | 1 | 0.00133 | 0 | 0.0119 | 0 | 0.00752 | 1 | 0.00000885 | 0 | 0.00133 | 0 | 0.00442 | 0 | 0.251 | 1 | 0.00221 | 0 | 0.00955 | 1 |
| **2022-11-13** | 0.00287 | 0 | 0.000958 | 0 | 0.0024 | 0 | 0.000958 | 0 | 0.0773 | 1 | 0.0239 | 0 | 0.00144 | 0 | 0.0129 | 0 | 0.00115 | 1 | 0.00000958 | 0 | 0.00144 | 0 | 0.00479 | 0 | 0.233 | 1 | 0.00239 | 0 | 0.00613 | 1 |
| **2022-11-19** | 0.00278 | 0 | 0.000927 | 0 | 0.0023 | 0 | 0.000927 | 0 | 0.0783 | 1 | 0.076 | 1 | 0.00139 | 0 | 0.0125 | 0 | 0.00269 | 1 | 0.00000927 | 0 | 0.00139 | 0 | 0.00463 | 0 | 0.329 | 1 | 0.00232 | 0 | 0.0108 | 1 |
| **2022-11-25** | 0.00266 | 0 | 0.000887 | 0 | 0.0022 | 0 | 0.000887 | 0 | 0.0931 | 1 | 0.0585 | 1 | 0.00133 | 0 | 0.012 | 0 | 0.00222 | 1 | 0.00000887 | 0 | 0.00133 | 0 | 0.00443 | 0 | 0.326 | 1 | 0.00222 | 0 | 0.0109 | 1 |
| **2022-12-01** | 0.00265 | 0 | 0.000883 | 0 | 0.0022 | 0 | 0.000883 | 0 | 0.263 | 1 | 0.255 | 1 | 0.00132 | 0 | 0.0119 | 0 | 0.00839 | 1 | 0.00000883 | 0 | 0.00132 | 0 | 0.00441 | 0 | 0.256 | 1 | 0.00221 | 0 | 0.0151 | 1 |
| **2022-12-07** | 0.00323 | 0 | 0.00108 | 0 | 0.0027 | 0 | 0.00108 | 0 | 0.0992 | 1 | 0.0603 | 1 | 0.00162 | 0 | 0.0145 | 0 | 0.00108 | 1 | 0.0000108 | 0 | 0.00162 | 0 | 0.00539 | 0 | 0.267 | 1 | 0.00269 | 0 | 0.00862 | 1 |
| **2022-12-12** | 0.00282 | 0 | 0.00094 | 0 | 0.0024 | 0 | 0.00094 | 0 | 0.0492 | 1 | 0.0235 | 0 | 0.00141 | 0 | 0.0127 | 0 | 0.00047 | 0 | 0.0000094 | 0 | 0.00141 | 0 | 0.0047 | 0 | 0.239 | 1 | 0.00235 | 0 | 0.00601 | 1 |
| **2022-12-19** | 0.00305 | 0 | 0.00102 | 0 | 0.0025 | 0 | 0.00102 | 0 | 0.262 | 1 | 0.0254 | 0 | 0.00152 | 0 | 0.0137 | 0 | 0.000508 | 0 | 0.0000102 | 0 | 0.00152 | 0 | 0.00508 | 0 | 0.229 | 1 | 0.00254 | 0 | 0.00793 | 1 |
| **2022-12-25** | 0.00331 | 0 | 0.0011 | 0 | 0.0028 | 0 | 0.0011 | 0 | 0.00276 | 0 | 0.0276 | 0 | 0.00165 | 0 | 0.0149 | 0 | 0.000511 | 0 | 0.000011 | 0 | 0.00165 | 0 | 0.00551 | 0 | 0.129 | 1 | 0.00276 | 0 | 0.0117 | 1 |
| **2023-01-06** | 0.00188 | 0 | 0.000626 | 0 | 0.0016 | 0 | 0.000626 | 0 | 0.00157 | 0 | 0.0157 | 0 | 0.00094 | 0 | 0.00846 | 0 | 0.000313 | 0 | 0.00000626 | 0 | 0.00094 | 0 | 0.00313 | 0 | 0.062 | 1 | 0.00157 | 0 | 0.00376 | 1 |
| **2023-01-12** | 0.00308 | 0 | 0.00103 | 0 | 0.0026 | 0 | 0.00103 | 0 | 0.0684 | 1 | 0.0256 | 0 | 0.00154 | 0 | 0.0138 | 0 | 0.000513 | 0 | 0.0000103 | 0 | 0.00154 | 0 | 0.00513 | 0 | 0.18 | 1 | 0.00256 | 0 | 0.00933 | 1 |
| **2023-01-18** | 0.00287 | 0 | 0.000957 | 0 | 0.0024 | 0 | 0.000957 | 0 | 0.157 | 1 | 0.0239 | 0 | 0.00143 | 0 | 0.0129 | 0 | 0.000478 | 0 | 0.00000957 | 0 | 0.00143 | 0 | 0.00478 | 0 | 0.123 | 1 | 0.00239 | 0 | 0.00574 | 1 |
| **2023-01-24** | 0.0028 | 0 | 0.000932 | 0 | 0.0023 | 0 | 0.000932 | 0 | 0.0481 | 1 | 0.0233 | 0 | 0.0014 | 0 | 0.0126 | 0 | 0.000466 | 0 | 0.00000932 | 0 | 0.0014 | 0 | 0.00466 | 0 | 0.137 | 1 | 0.00233 | 0 | 0.00233 | 0 |
| **2023-01-30** | 0.00262 | 0 | 0.000874 | 0 | 0.0022 | 0 | 0.000874 | 0 | 0.0778 | 1 | 0.0218 | 0 | 0.00131 | 0 | 0.0118 | 0 | 0.00114 | 1 | 0.00000874 | 0 | 0.00131 | 0 | 0.00437 | 0 | 0.252 | 1 | 0.00218 | 0 | 0.00673 | 1 |
| **2023-02-07** | 0.00228 | 0 | 0.00076 | 0 | 0.0019 | 0 | 0.00076 | 0 | 0.0996 | 1 | 0.019 | 0 | 0.00114 | 0 | 0.0103 | 0 | 0.000988 | 1 | 0.0000076 | 0 | 0.00114 | 0 | 0.0038 | 0 | 0.385 | 1 | 0.0019 | 0 | 0.00593 | 1 |
| **2023-02-12** | 0.00285 | 0 | 0.000951 | 0 | 0.0024 | 0 | 0.000951 | 0 | 0.0319 | 1 | 0.0657 | 1 | 0.00143 | 0 | 0.0128 | 0 | 0.00133 | 1 | 0.00000951 | 0 | 0.00143 | 0 | 0.00476 | 0 | 0.196 | 1 | 0.00238 | 0 | 0.00894 | 1 |
| **2023-02-17** | 0.00291 | 0 | 0.000969 | 0 | 0.0024 | 0 | 0.000969 | 0 | 0.145 | 1 | 0.0494 | 1 | 0.00145 | 0 | 0.0131 | 0 | 0.00126 | 1 | 0.00000969 | 0 | 0.00145 | 0 | 0.00484 | 0 | 0.324 | 1 | 0.00242 | 0 | 0.00736 | 1 |
| **2023-02-23** | 0.00287 | 0 | 0.000956 | 0 | 0.0024 | 0 | 0.000956 | 0 | 0.146 | 1 | 0.0612 | 1 | 0.00143 | 0 | 0.0129 | 0 | 0.00143 | 1 | 0.00000956 | 0 | 0.00143 | 0 | 0.00478 | 0 | 0.38 | 1 | 0.00239 | 0 | 0.00832 | 1 |
| **2023-02-28** | 0.00195 | 0 | 0.000651 | 0 | 0.0034 | 1 | 0.000651 | 0 | 0.0997 | 1 | 0.0469 | 1 | 0.000977 | 0 | 0.00879 | 0 | 0.00124 | 1 | 0.00000651 | 0 | 0.000977 | 0 | 0.00326 | 0 | 0.332 | 1 | 0.00163 | 0 | 0.00567 | 1 |
| **2023-03-08** | 0.00191 | 0 | 0.000637 | 0 | 0.0016 | 0 | 0.000637 | 0 | 0.0543 | 1 | 0.0688 | 1 | 0.000956 | 0 | 0.00861 | 0 | 0.00178 | 1 | 0.00000637 | 0 | 0.000956 | 0 | 0.00319 | 0 | 0.285 | 1 | 0.00159 | 0 | 0.00708 | 1 |
| **2023-03-14** | 0.00183 | 0 | 0.000609 | 0 | 0.0015 | 0 | 0.000609 | 0 | 0.047 | 1 | 0.0664 | 1 | 0.000914 | 0 | 0.00823 | 0 | 0.00165 | 1 | 0.00000609 | 0 | 0.000914 | 0 | 0.00305 | 0 | 0.288 | 1 | 0.00152 | 0 | 0.00646 | 1 |
| **2023-03-20** | 0.00181 | 0 | 0.000604 | 0 | 0.0015 | 0 | 0.000604 | 0 | 0.0536 | 1 | 0.0393 | 1 | 0.000906 | 0 | 0.00815 | 0 | 0.00103 | 1 | 0.00000604 | 0 | 0.000906 | 0 | 0.00302 | 0 | 0.335 | 1 | 0.00151 | 0 | 0.00531 | 1 |
| **2023-03-26** | 0.00186 | 0 | 0.00062 | 0 | 0.0016 | 0 | 0.00062 | 0 | 0.0505 | 1 | 0.0918 | 1 | 0.000931 | 0 | 0.00837 | 0 | 0.00236 | 1 | 0.0000062 | 0 | 0.000931 | 0 | 0.0031 | 0 | 0.37 | 1 | 0.00155 | 0 | 0.00453 | 1 |
| **2023-04-01** | 0.00189 | 0 | 0.000629 | 0 | 0.0016 | 0 | 0.000629 | 0 | 0.0552 | 1 | 0.073 | 1 | 0.000944 | 0 | 0.0085 | 0 | 0.00176 | 1 | 0.00000629 | 0 | 0.000944 | 0 | 0.00315 | 0 | 0.241 | 1 | 0.00157 | 0 | 0.00447 | 1 |
| **2023-04-07** | 0.00175 | 0 | 0.000582 | 0 | 0.0015 | 0 | 0.000582 | 0 | 0.0532 | 1 | 0.0949 | 1 | 0.000873 | 0 | 0.00786 | 0 | 0.00268 | 1 | 0.00000582 | 0 | 0.000873 | 0 | 0.00291 | 0 | 0.305 | 1 | 0.00145 | 0 | 0.00483 | 1 |
| **2023-04-13** | 0.00172 | 0 | 0.000575 | 0 | 0.0014 | 0 | 0.000575 | 0 | 0.0364 | 1 | 0.0431 | 1 | 0.000862 | 0 | 0.00776 | 0 | 0.00155 | 1 | 0.00000575 | 0 | 0.000862 | 0 | 0.00287 | 0 | 0.147 | 1 | 0.00144 | 0 | 0.00144 | 0 |
| **2023-04-19** | 0.00178 | 0 | 0.000595 | 0 | 0.0015 | 0 | 0.000595 | 0 | 0.046 | 1 | 0.0826 | 1 | 0.000892 | 0 | 0.00803 | 0 | 0.00214 | 1 | 0.00000595 | 0 | 0.000892 | 0 | 0.00297 | 0 | 0.262 | 1 | 0.00149 | 0 | 0.00369 | 1 |
| **2023-04-26** | 0.00187 | 0 | 0.000625 | 0 | 0.0016 | 0 | 0.000625 | 0 | 0.0578 | 1 | 0.0843 | 1 | 0.000937 | 0 | 0.00843 | 0 | 0.00256 | 1 | 0.00000625 | 0 | 0.000937 | 0 | 0.00312 | 0 | 0.369 | 1 | 0.00156 | 0 | 0.0065 | 1 |
| **2023-05-02** | 0.00185 | 0 | 0.000617 | 0 | 0.0015 | 0 | 0.000617 | 0 | 0.0549 | 1 | 0.0549 | 1 | 0.000925 | 0 | 0.00832 | 0 | 0.00154 | 1 | 0.00000617 | 0 | 0.000925 | 0 | 0.00308 | 0 | 0.206 | 1 | 0.00154 | 0 | 0.00154 | 0 |
| **2023-05-08** | 0.00184 | 0 | 0.000613 | 0 | 0.0015 | 0 | 0.000613 | 0 | 0.0778 | 1 | 0.0975 | 1 | 0.000919 | 0 | 0.00828 | 0 | 0.00227 | 1 | 0.00000613 | 0 | 0.000919 | 0 | 0.00306 | 0 | 0.316 | 1 | 0.00153 | 0 | 0.0046 | 1 |
| **2023-05-14** | 0.00178 | 0 | 0.000592 | 0 | 0.0015 | 0 | 0.000592 | 0 | 0.0523 | 1 | 0.0811 | 1 | 0.000888 | 0 | 0.008 | 0 | 0.0048 | 1 | 0.00000592 | 0 | 0.000888 | 0 | 0.00296 | 0 | 0.233 | 1 | 0.00148 | 0 | 0.00426 | 1 |
| **2023-05-17** | 0.00175 | 0 | 0.000583 | 0 | 0.0015 | 0 | 0.000583 | 0 | 0.0527 | 1 | 0.168 | 1 | 0.000874 | 0 | 0.00786 | 0 | 0.00583 | 1 | 0.00000583 | 0 | 0.000874 | 0 | 0.00291 | 0 | 0.285 | 1 | 0.00146 | 0 | 0.00705 | 1 |
| **2023-05-23** | 0.00183 | 0 | 0.000609 | 0 | 0.0015 | 0 | 0.000609 | 0 | 0.049 | 1 | 0.103 | 1 | 0.000914 | 0 | 0.00822 | 0 | 0.00506 | 1 | 0.00000609 | 0 | 0.000914 | 0 | 0.00305 | 0 | 0.292 | 1 | 0.00152 | 0 | 0.00688 | 1 |
| **2023-05-29** | 0.00182 | 0 | 0.000607 | 0 | 0.0015 | 0 | 0.000607 | 0 | 0.0477 | 1 | 0.401 | 1 | 0.000911 | 0 | 0.0082 | 0 | 0.0134 | 1 | 0.00000607 | 0 | 0.000911 | 0 | 0.00304 | 0 | 0.451 | 1 | 0.00152 | 0 | 0.0117 | 1 |
| **2023-06-04** | 0.00175 | 0 | 0.000583 | 0 | 0.0015 | 0 | 0.000583 | 0 | 0.0676 | 1 | 0.0612 | 1 | 0.000874 | 0 | 0.00787 | 0 | 0.00239 | 1 | 0.00000583 | 0 | 0.000874 | 0 | 0.00291 | 0 | 0.438 | 1 | 0.00146 | 0 | 0.011 | 1 |
| **2023-06-10** | 0.00181 | 0 | 0.000602 | 0 | 0.0015 | 0 | 0.000602 | 0 | 0.0963 | 1 | 0.0367 | 1 | 0.000903 | 0 | 0.00812 | 0 | 0.00217 | 1 | 0.00000602 | 0 | 0.000903 | 0 | 0.00301 | 0 | 0.178 | 1 | 0.0015 | 0 | 0.00692 | 1 |
| **2023-06-16** | 0.0019 | 0 | 0.000633 | 0 | 0.0016 | 0 | 0.000633 | 0 | 0.113 | 1 | 0.127 | 1 | 0.00095 | 0 | 0.00855 | 0 | 0.0189 | 1 | 0.00000633 | 0 | 0.00095 | 0 | 0.00317 | 0 | 0.324 | 1 | 0.00158 | 0 | 0.0114 | 1 |
| **2023-06-23** | 0.00189 | 0 | 0.000629 | 0 | 0.0016 | 0 | 0.000629 | 0 | 0.0642 | 1 | 0.0617 | 1 | 0.000944 | 0 | 0.0085 | 0 | 0.00271 | 1 | 0.00000629 | 0 | 0.000944 | 0 | 0.00315 | 0 | 0.211 | 1 | 0.00157 | 0 | 0.00459 | 1 |
| **2023-06-29** | 0.00163 | 0 | 0.000543 | 0 | 0.0014 | 0 | 0.000543 | 0 | 0.0467 | 1 | 0.129 | 1 | 0.000814 | 0 | 0.00733 | 0 | 0.00445 | 1 | 0.00000543 | 0 | 0.000814 | 0 | 0.00271 | 0 | 0.379 | 1 | 0.00136 | 0 | 0.013 | 1 |
| **2023-07-05** | 0.00156 | 0 | 0.000521 | 0 | 0.0013 | 0 | 0.000521 | 0 | 0.0662 | 1 | 0.036 | 1 | 0.000782 | 0 | 0.00704 | 0 | 0.00099 | 1 | 0.00000521 | 0 | 0.000782 | 0 | 0.00261 | 0 | 0.113 | 1 | 0.0013 | 0 | 0.0037 | 1 |
| **2023-07-11** | 0.00145 | 0 | 0.000484 | 0 | 0.0012 | 0 | 0.000484 | 0 | 0.0489 | 1 | 0.0121 | 0 | 0.000727 | 0 | 0.00654 | 0 | 0.000775 | 1 | 0.00000484 | 0 | 0.000727 | 0 | 0.00242 | 0 | 0.127 | 1 | 0.00121 | 0 | 0.00262 | 1 |
| **2023-07-17** | 0.00136 | 0 | 0.00452 | 0 | 0.0011 | 0 | 0.000452 | 0 | 0.0405 | 1 | 0.0113 | 0 | 0.000679 | 0 | 0.00611 | 0 | 0.00104 | 1 | 0.00000452 | 0 | 0.000679 | 0 | 0.00226 | 0 | 0.0787 | 1 | 0.00113 | 0 | 0.00271 | 1 |
| **2023-07-23** | 0.00109 | 0 | 0.000362 | 0 | 0.0009 | 0 | 0.000362 | 0 | 0.0279 | 1 | 0.00906 | 0 | 0.000544 | 0 | 0.00489 | 0 | 0.000507 | 1 | 0.00000362 | 0 | 0.000544 | 0 | 0.00181 | 0 | 0.067 | 1 | 0.000906 | 1 | 0.00203 | 1 |
| **2023-07-29** | 0.0017 | 0 | 0.000565 | 0 | 0.0014 | 0 | 0.000565 | 0 | 0.0678 | 1 | 0.0141 | 0 | 0.000848 | 0 | 0.00763 | 0 | 0.000791 | 1 | 0.00000565 | 0 | 0.000848 | 0 | 0.00283 | 0 | 0.132 | 1 | 0.00141 | 0 | 0.00435 | 1 |
| **2023-08-05** | 0.00184 | 0 | 0.000613 | 0 | 0.0015 | 0 | 0.000613 | 0 | 0.0533 | 1 | 0.0644 | 1 | 0.00387 | 1 | 0.00828 | 0 | 0.00472 | 1 | 0.00000613 | 0 | 0.00092 | 0 | 0.00307 | 0 | 0.364 | 1 | 0.00153 | 0 | 0.00712 | 1 |
| **2023-08-10** | 0.00146 | 0 | 0.000485 | 0 | 0.0012 | 0 | 0.000485 | 0 | 0.0453 | 1 | 0.0408 | 1 | 0.000728 | 0 | 0.00655 | 0 | 0.000776 | 1 | 0.00000485 | 0 | 0.000728 | 0 | 0.00243 | 0 | 0.131 | 1 | 0.00121 | 0 | 0.0034 | 1 |
| **2023-08-17** | 0.00171 | 0 | 0.000568 | 0 | 0.0014 | 0 | 0.000568 | 0 | 0.0471 | 1 | 0.0142 | 0 | 0.000853 | 0 | 0.00767 | 0 | 0.00171 | 1 | 0.00000568 | 0 | 0.000853 | 0 | 0.00284 | 0 | 0.308 | 1 | 0.00142 | 0 | 0.0103 | 1 |
| **2023-08-22** | 0.00182 | 0 | 0.000608 | 0 | 0.0015 | 0 | 0.000608 | 0 | 0.0778 | 1 | 0.0753 | 1 | 0.000911 | 0 | 0.0082 | 0 | 0.00383 | 1 | 0.00000608 | 0 | 0.000911 | 0 | 0.00304 | 0 | 0.291 | 1 | 0.00152 | 0 | 0.00577 | 1 |
| **2023-08-28** | 0.0018 | 0 | 0.000599 | 0 | 0.0015 | 0 | 0.000599 | 0 | 0.054 | 1 | 0.015 | 0 | 0.000899 | 0 | 0.00809 | 0 | 0.00156 | 1 | 0.00000599 | 0 | 0.000899 | 0 | 0.003 | 0 | 0.155 | 1 | 0.0015 | 0 | 0.00755 | 1 |
| **2023-09-03** | 0.00171 | 0 | 0.000571 | 0 | 0.0014 | 0 | 0.000571 | 0 | 0.057 | 1 | 0.214 | 1 | 0.000857 | 0 | 0.00771 | 0 | 0.0315 | 1 | 0.00000571 | 0 | 0.000857 | 0 | 0.00286 | 0 | 0.55 | 1 | 0.00143 | 0 | 0.024 | 1 |
| **2023-09-21** | 0.00173 | 0 | 0.000575 | 0 | 0.0014 | 0 | 0.000575 | 0 | 0.0633 | 1 | 0.0679 | 1 | 0.000863 | 0 | 0.00776 | 0 | 0.00385 | 1 | 0.00000575 | 0 | 0.000863 | 0 | 0.00288 | 0 | 0.293 | 1 | 0.00144 | 0 | 0.00897 | 1 |
| **2023-09-27** | 0.00166 | 0 | 0.000555 | 0 | 0.0014 | 0 | 0.000555 | 0 | 0.0391 | 1 | 0.0727 | 1 | 0.000832 | 0 | 0.00749 | 0 | 0.00194 | 1 | 0.00000555 | 0 | 0.000832 | 0 | 0.00277 | 0 | 0.267 | 1 | 0.00139 | 0 | 0.00799 | 1 |
| **2023-10-03** | 0.00166 | 0 | 0.000553 | 0 | 0.0014 | 0 | 0.000553 | 0 | 0.0317 | 1 | 0.205 | 1 | 0.00498 | 1 | 0.00747 | 0 | 0.00941 | 1 | 0.00000553 | 0 | 0.00083 | 0 | 0.00277 | 0 | 0.428 | 1 | 0.00138 | 0 | 0.0222 | 1 |
| **2023-10-09** | 0.00161 | 0 | 0.000537 | 0 | 0.0013 | 0 | 0.000537 | 0 | 0.0312 | 1 | 0.0134 | 0 | 0.000806 | 0 | 0.00725 | 0 | 0.000752 | 1 | 0.00000537 | 0 | 0.000806 | 0 | 0.00269 | 0 | 0.0677 | 1 | 0.00134 | 0 | 0.0029 | 1 |
| **2023-10-15** | 0.00169 | 0 | 0.000564 | 0 | 0.0014 | 0 | 0.000564 | 0 | 0.0489 | 1 | 0.0389 | 1 | 0.000845 | 0 | 0.00761 | 0 | 0.00192 | 1 | 0.00000564 | 0 | 0.000845 | 0 | 0.00282 | 0 | 0.169 | 1 | 0.00141 | 0 | 0.00327 | 1 |
| **2023-10-21** | 0.00165 | 0 | 0.000549 | 0 | 0.0014 | 0 | 0.000549 | 0 | 0.0495 | 1 | 0.0137 | 0 | 0.000823 | 0 | 0.00741 | 0 | 0.00121 | 1 | 0.00000549 | 0 | 0.000823 | 0 | 0.00274 | 0 | 0.104 | 1 | 0.00137 | 0 | 0.00313 | 1 |
| **2023-10-27** | 0.0017 | 0 | 0.000568 | 0 | 0.0014 | 0 | 0.000568 | 0 | 0.0541 | 1 | 0.029 | 1 | 0.000852 | 0 | 0.00766 | 0 | 0.000795 | 1 | 0.00000568 | 0 | 0.000852 | 0 | 0.00284 | 0 | 0.0795 | 1 | 0.00142 | 0 | 0.00539 | 1 |
| **2023-11-02** | 0.00168 | 0 | 0.000561 | 0 | 0.0014 | 0 | 0.000561 | 0 | 0.047 | 1 | 0.0387 | 1 | 0.000841 | 0 | 0.00757 | 0 | 0.00185 | 1 | 0.00000561 | 0 | 0.000841 | 0 | 0.0028 | 0 | 0.423 | 1 | 0.0014 | 0 | 0.00589 | 1 |
| **2023-11-08** | 0.00164 | 0 | 0.000548 | 0 | 0.0014 | 0 | 0.000548 | 0 | 0.0404 | 1 | 0.0137 | 0 | 0.000822 | 0 | 0.0074 | 0 | 0.000274 | 0 | 0.00000548 | 0 | 0.000822 | 0 | 0.00274 | 0 | 0.0504 | 1 | 0.00137 | 0 | 0.00394 | 1 |
| **2023-11-14** | 0.00176 | 0 | 0.000587 | 0 | 0.0015 | 0 | 0.000587 | 0 | 0.0488 | 1 | 0.103 | 1 | 0.000881 | 0 | 0.00793 | 0 | 0.00634 | 1 | 0.00000587 | 0 | 0.000881 | 0 | 0.00294 | 0 | 0.138 | 1 | 0.00147 | 0 | 0.00493 | 1 |
| **2023-11-20** | 0.00166 | 0 | 0.000552 | 0 | 0.0014 | 0 | 0.000552 | 0 | 0.0321 | 1 | 0.0596 | 1 | 0.000828 | 0 | 0.00745 | 0 | 0.00265 | 1 | 0.00000552 | 0 | 0.000828 | 0 | 0.00276 | 0 | 0.165 | 1 | 0.00138 | 0 | 0.00519 | 1 |
| **2023-11-26** | 0.00434 | 1 | 0.000556 | 0 | 0.0014 | 0 | 0.000556 | 0 | 0.0473 | 1 | 0.0873 | 1 | 0.000834 | 0 | 0.0075 | 0 | 0.00372 | 1 | 0.00000556 | 0 | 0.000834 | 0 | 0.00278 | 0 | 0.148 | 1 | 0.00139 | 0 | 0.00728 | 1 |
| **2023-12-02** | 0.00172 | 0 | 0.000574 | 0 | 0.0014 | 0 | 0.000574 | 0 | 0.0393 | 1 | 0.0879 | 1 | 0.000862 | 0 | 0.00775 | 0 | 0.00563 | 1 | 0.00000574 | 0 | 0.000862 | 0 | 0.00287 | 0 | 0.245 | 1 | 0.00144 | 0 | 0.00586 | 1 |
| **2023-12-08** | 0.00188 | 0 | 0.000625 | 0 | 0.0016 | 0 | 0.000625 | 0 | 0.0522 | 1 | 0.0156 | 0 | 0.000938 | 0 | 0.00844 | 0 | 0.001 | 1 | 0.00000625 | 0 | 0.000938 | 0 | 0.00313 | 0 | 0.143 | 1 | 0.00156 | 0 | 0.00513 | 1 |
| **2023-12-14** | 0.00177 | 0 | 0.000591 | 0 | 0.0015 | 0 | 0.000591 | 0 | 0.0851 | 1 | 0.039 | 1 | 0.000886 | 0 | 0.00798 | 0 | 0.0016 | 1 | 0.00000591 | 0 | 0.000886 | 0 | 0.00295 | 0 | 0.158 | 1 | 0.00148 | 0 | 0.00609 | 1 |
| **2023-12-20** | 0.00163 | 0 | 0.000544 | 0 | 0.0014 | 0 | 0.000544 | 0 | 0.0849 | 1 | 0.0136 | 0 | 0.000816 | 0 | 0.00735 | 0 | 0.000272 | 0 | 0.00000544 | 0 | 0.000816 | 0 | 0.00272 | 0 | 0.0778 | 1 | 0.00136 | 0 | 0.00136 | 0 |
| **2023-12-26** | 0.00166 | 0 | 0.000553 | 0 | 0.0014 | 0 | 0.000553 | 0 | 0.0863 | 1 | 0.0138 | 0 | 0.00083 | 0 | 0.00747 | 0 | 0.000277 | 0 | 0.00000553 | 0 | 0.00083 | 0 | 0.00277 | 0 | 0.0648 | 1 | 0.00138 | 0 | 0.00293 | 1 |
| **2023-12-31** | 0.00168 | 0 | 0.00056 | 0 | 0.0014 | 0 | 0.00056 | 0 | 0.0616 | 1 | 0.014 | 0 | 0.00084 | 0 | 0.00756 | 0 | 0.00028 | 0 | 0.0000056 | 0 | 0.00084 | 0 | 0.0028 | 0 | 0.119 | 1 | 0.0014 | 0 | 0.00358 | 1 |
| **2024-01-04** | 0.00163 | 0 | 0.000543 | 0 | 0.0014 | 0 | 0.000543 | 0 | 0.0344 | 1 | 0.0136 | 0 | 0.000815 | 0 | 0.00733 | 0 | 0.000652 | 1 | 0.00000543 | 0 | 0.000815 | 0 | 0.00272 | 0 | 0.0989 | 1 | 0.00136 | 0 | 0.00359 | 1 |
| **2024-01-10** | 0.00159 | 0 | 0.000531 | 0 | 0.0013 | 0 | 0.000531 | 0 | 0.0824 | 1 | 0.0133 | 0 | 0.000797 | 0 | 0.00717 | 0 | 0.000585 | 1 | 0.00000531 | 0 | 0.000797 | 0 | 0.00266 | 0 | 0.272 | 1 | 0.00133 | 0 | 0.0034 | 1 |
| **2024-01-13** | 0.00158 | 0 | 0.000528 | 0 | 0.0013 | 0 | 0.000528 | 0 | 0.122 | 1 | 0.0132 | 0 | 0.000792 | 0 | 0.00712 | 0 | 0.000264 | 0 | 0.00000528 | 0 | 0.000792 | 0 | 0.00264 | 0 | 0.101 | 1 | 0.00132 | 0 | 0.00343 | 1 |
| **2024-01-19** | 0.00172 | 0 | 0.000574 | 0 | 0.0014 | 0 | 0.000574 | 0 | 0.0321 | 1 | 0.0143 | 0 | 0.00086 | 0 | 0.00774 | 0 | 0.000287 | 0 | 0.00000574 | 0 | 0.00086 | 0 | 0.00287 | 0 | 0.0729 | 1 | 0.00143 | 0 | 0.00143 | 0 |
| **2024-01-25** | 0.0017 | 0 | 0.000567 | 0 | 0.0014 | 0 | 0.000567 | 0 | 0.0647 | 1 | 0.0142 | 0 | 0.000851 | 0 | 0.00766 | 0 | 0.000284 | 0 | 0.00000567 | 0 | 0.000851 | 0 | 0.00284 | 0 | 0.153 | 1 | 0.00142 | 0 | 0.00142 | 0 |
| **2024-01-31** | 0.00155 | 0 | 0.000517 | 0 | 0.0013 | 0 | 0.000517 | 0 | 0.0433 | 1 | 0.0258 | 1 | 0.000775 | 0 | 0.00698 | 0 | 0.000879 | 1 | 0.00000517 | 0 | 0.000775 | 0 | 0.00258 | 0 | 0.183 | 1 | 0.00129 | 0 | 0.00336 | 1 |
| **2024-02-06** | 0.00169 | 0 | 0.000564 | 0 | 0.0014 | 0 | 0.000564 | 0 | 0.0406 | 1 | 0.0141 | 0 | 0.000845 | 0 | 0.00761 | 0 | 0.00537 | 1 | 0.00000564 | 0 | 0.000845 | 0 | 0.00282 | 0 | 0.114 | 1 | 0.00141 | 0 | 0.00473 | 1 |
| **2024-02-12** | 0.00168 | 0 | 0.000559 | 0 | 0.0014 | 0 | 0.000559 | 0 | 0.04 | 1 | 0.014 | 0 | 0.000838 | 0 | 0.00754 | 0 | 0.000279 | 0 | 0.00000559 | 0 | 0.000838 | 0 | 0.00279 | 0 | 0.209 | 1 | 0.0014 | 0 | 0.00374 | 1 |
| **2024-02-18** | 0.00161 | 0 | 0.000538 | 0 | 0.0014 | 0 | 0.000538 | 0 | 0.0399 | 1 | 0.0398 | 1 | 0.000807 | 0 | 0.00727 | 0 | 0.00118 | 1 | 0.0000108 | 1 | 0.000807 | 0 | 0.00269 | 0 | 0.099 | 1 | 0.00135 | 0 | 0.00538 | 1 |
| **2024-02-24** | 0.00165 | 0 | 0.000552 | 0 | 0.0014 | 0 | 0.000552 | 0 | 0.0267 | 1 | 0.0502 | 1 | 0.000827 | 0 | 0.00745 | 0 | 0.00182 | 1 | 0.00000552 | 0 | 0.000827 | 0 | 0.00276 | 0 | 0.241 | 1 | 0.00138 | 0 | 0.0043 | 1 |
| **2024-03-01** | 0.00158 | 0 | 0.000525 | 0 | 0.0013 | 0 | 0.000525 | 0 | 0.042 | 1 | 0.225 | 1 | 0.000788 | 0 | 0.00709 | 0 | 0.00925 | 1 | 0.00000525 | 0 | 0.000788 | 0 | 0.00263 | 0 | 0.298 | 1 | 0.00131 | 0 | 0.00636 | 1 |
| **2024-03-07** | 0.0016 | 0 | 0.000534 | 0 | 0.0013 | 0 | 0.000534 | 0 | 0.0254 | 1 | 0.0486 | 1 | 0.000801 | 0 | 0.00721 | 0 | 0.00187 | 1 | 0.00000534 | 0 | 0.000801 | 0 | 0.00267 | 0 | 0.239 | 1 | 0.00133 | 0 | 0.00758 | 1 |
| **2024-03-13** | 0.00157 | 0 | 0.000523 | 0 | 0.0013 | 0 | 0.000523 | 0 | 0.0847 | 1 | 0.0131 | 0 | 0.000784 | 0 | 0.00706 | 0 | 0.00068 | 1 | 0.00000523 | 0 | 0.000784 | 0 

PAH Concentrations (ug/m3)

| Parameter | 1-Methyl Naphthalene | | 2-Methyl Naphthalene | | Acenaphtene | | Acenaphthylene | | Anthracene | | Benz(a)anthracene | | Benzo(a)pyrene | | Benzo(b)fluoranthene | | Benzo(e)pyrene | | Benzo(ghi)perylene | | Benzo(k)fluoranthene | | Chrysene | | Dibenz(a,h)anthracene | | Fluoranthene | | Fluorene | | Indeno(1,2,3-cd)pyrene | | Naphthalene | | Perylene | | Phenanthrene | | Pyrene | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Conc | Detection | Conc | Detection | Conc | Detection | Conc | Detection | Conc | Detection | Conc | Detection | Conc | Detection | Conc | Detection | Conc | Detection | Conc | Detection | Conc | Detection | Conc | Detection | Conc | Detection | Conc | Detection | Conc | Detection | Conc | Detection | Conc | Detection | Conc | Detection | Conc | Detection | Conc | Detection |
| Sampling Date | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2022-11-19 | 0.00422 | 1 | 0.00498 | 1 | 0.0006 | 1 | 0.000598 | 1 | 0.000485 | 1 | 0.00000665 | 0 | 0.00000166 | 0 | 0.00000665 | 0 | 0.00000665 | 0 | 0.00000665 | 0 | 0.00000665 | 0 | 0.00000665 | 0 | 0.00000665 | 0 | 0.00000665 | 0 | 0.000303 | 1 | 0.0012 | 1 | 6.65E-06 | 0 | 0.0155 | 1 | 6.65E-06 | 0 | 0.00323 | 1 | 0.000316 | 1 |
| 2022-12-01 | 0.000869 | 1 | 0.00142 | 1 | 8E-05 | 1 | 0.0000714 | 1 | 0.0000208 | 1 | 0.00000674 | 0 | 0.0000152 | 1 | 0.00000194 | 1 | 0.0000142 | 1 | 0.0000138 | 1 | 0.0000157 | 1 | 0.0000305 | 1 | | | 0.0000792 | 1 | 0.000179 | 1 | 2.75E-05 | 1 | 0.00418 | 1 | 6.74E-06 | 0 | 0.000344 | 1 | 5.73E-05 | 1 |
| 2022-12-17 | 0.00027 | 1 | 0.000432 | 1 | 5E-05 | 1 | 0.00000669 | 0 | 0.00000669 | 0 | 0.00000669 | 0 | 0.0000227 | 1 | 0.00000669 | 0 | 0.00000669 | 0 | 0.00000669 | 0 | 0.00000669 | 0 | 0.00000669 | 0 | 0.00000669 | 0 | 0.00000669 | 0 | 0.0000284 | 1 | 0.000116 | 1 | 6.69E-06 | 0 | 0.00232 | 1 | 6.69E-06 | 0 | 0.000182 | 1 | 2.01E-05 | 1 |
| 2023-01-12 | 0.00335 | 1 | 0.00465 | 1 | 0.0002 | 1 | 0.000119 | 1 | 0.00000704 | 0 | 0.00000704 | 0 | 0.0000409 | 1 | 0.000062 | 1 | 0.0000254 | 1 | 0.0000299 | 1 | 0.0000532 | 1 | 0.00000704 | 0 | 0.00000704 | 0 | 0.00000704 | 0 | 0.00018 | 1 | 0.00113 | 1 | 3.06E-05 | 1 | 0.0331 | 1 | 7.04E-06 | 0 | 0.00128 | 1 | 6.41E-05 | 1 |
| 2023-01-28 | 0.000503 | 1 | 0.000535 | 1 | 2E-05 | 1 | 0.0000144 | 1 | 0.0000388 | 1 | 0.0000113 | 1 | 0.0000835 | 1 | 0.0000166 | 1 | 0.00000156 | 0 | 0.00000969 | 1 | 0.0000116 | 1 | 0.0000316 | 1 | 0.00000156 | 0 | 0.0000156 | 0 | 0.000246 | 1 | 0.000133 | 1 | 8.75E-06 | 1 | 0.007 | 1 | 1.56E-06 | 0 | 0.000344 | 1 | 0.000224 | 1 |
| 2023-02-12 | 0.000243 | 1 | 0.0004 | 1 | 3E-05 | 1 | 0.00000816 | 0 | 0.00000816 | 0 | 0.00000816 | 0 | 0.00000816 | 0 | 0.00000204 | 0 | 0.00000816 | 0 | 0 | 1 | 0.00000816 | 0 | 0.00000816 | 0 | 0 | 1 | 0.0000245 | 1 | 0.000156 | 1 | 0 | 1 | 0.0014 | 1 | 8.16E-06 | 0 | 0.000216 | 1 | 8.16E-06 | 0 |
| 2023-02-28 | 0.000152 | 1 | 0.000312 | 1 | 6E-06 | 0 | 0.00000584 | 0 | 0.00000584 | 0 | 0.00000584 | 0 | 0.00000584 | 0 | 0.00000146 | 0 | 0.00000584 | 0 | 0 | 1 | 0.00000584 | 0 | 0.00000584 | 0 | 0 | 1 | 0.00000584 | 0 | 0.0000201 | 1 | 0 | 1 | 0.00099 | 1 | 5.84E-06 | 0 | 3.94E-05 | 1 | 5.84E-06 | 0 |
| 2023-03-20 | 0.0000464 | 1 | 0.0000819 | 1 | 1E-05 | 1 | 0.00000483 | 0 | 0.00000483 | 0 | 0.00000483 | 0 | 0.00000483 | 0 | 0.00000121 | 0 | 0.00000483 | 0 | 0 | 1 | 0.00000483 | 0 | 0.00000483 | 0 | 0 | 1 | 0.00000967 | 1 | 0.0000527 | 1 | 0 | 1 | 0.000266 | 1 | 4.83E-06 | 0 | 0.000107 | 1 | 1.21E-05 | 1 |
| 2023-04-01 | 0.0000524 | 1 | 0.0000862 | 1 | 5E-06 | 0 | 0.00000483 | 0 | 0.00000483 | 0 | 0.00000483 | 0 | 0.00000121 | 0 | 0.00000483 | 0 | 0.00000483 | 0 | 0.00000483 | 0 | 0.00000483 | 0 | 0.00000483 | 0 | 0.00000483 | 0 | 0.0000106 | 1 | 0.0000389 | 1 | 4.83E-06 | 0 | 0.000306 | 1 | 4.83E-06 | 0 | 8.04E-05 | 1 | 1.16E-05 | 1 |
| 2023-04-14 | 0.0000905 | 1 | 0.000124 | 1 | 2E-05 | 1 | 0.00000508 | 0 | 0.0000117 | 1 | 0.00000508 | 0 | 0.00000122 | 0 | 0.00000508 | 0 | 0.00000508 | 0 | 0.00000508 | 0 | 0.00000508 | 0 | 0.00000508 | 0 | 0.00000508 | 0 | 0.0000264 | 1 | 0.0000973 | 1 | 5.08E-06 | 0 | 0.000363 | 1 | 5.08E-06 | 0 | 0.000208 | 1 | 2.44E-05 | 1 |
| 2023-04-26 | 0.0000434 | 1 | 0.0000735 | 1 | 9E-06 | 1 | 0.000004 | 0 | 0.00000959 | 1 | 0.000004 | 0 | 0.000000999 | 0 | 0.000004 | 0 | 0.000004 | 0 | 0.000004 | 0 | 0.000004 | 0 | 0.000004 | 0 | 0.000004 | 0 | 0.0000266 | 1 | 0.0000548 | 1 | 0.000004 | 0 | 0.00021 | 1 | 0.000004 | 0 | 0.000159 | 1 | 2.84E-05 | 1 |
| 2023-05-11 | 0.000761 | 1 | 0.00078 | 1 | 7E-05 | 1 | 0.0000188 | 1 | 0.000126 | 1 | 0.00000529 | 0 | 0.00000397 | 1 | 0.00000529 | 0 | 0.00000529 | 0 | 0.00000529 | 0 | 0.00000529 | 0 | 0.0000434 | 1 | 0.00000529 | 0 | 0.000208 | 1 | 0.000597 | 1 | 5.29E-06 | 0 | 0.00317 | 1 | 5.29E-06 | 0 | 0.00196 | 1 | 0.000259 | 1 |
| 2023-05-23 | 0.000482 | 1 | 0.000549 | 1 | 6E-05 | 1 | 0.0000163 | 1 | 0.0000461 | 1 | 0.00000536 | 0 | 0.00000482 | 1 | 0.00000536 | 0 | 0.00000536 | 0 | 0.00000536 | 0 | 0.00000536 | 0 | 0.0000201 | 1 | 0.00000536 | 0 | 0.0000849 | 1 | 0.000267 | 1 | 5.36E-06 | 0 | 0.00185 | 1 | 5.36E-06 | 0 | 0.000796 | 1 | 9.81E-05 | 1 |
| 2023-06-04 | 0.000233 | 1 | 0.000337 | 1 | 0.0001 | 1 | 0.0000707 | 1 | 0.0000803 | 1 | 0.00000566 | 0 | 0.00000141 | 0 | 0.00000566 | 0 | 0.00000566 | 0 | 0.00000566 | 0 | 0.00000566 | 0 | 0.0000571 | 1 | 0.00000566 | 0 | 0.00032 | 1 | 0.00027 | 1 | 5.66E-06 | 0 | 9.11E-05 | 1 | 5.66E-06 | 0 | 0.00192 | 1 | 0.000444 | 1 |
| 2023-06-16 | 0.000503 | 1 | 0.000482 | 1 | 3E-05 | 1 | 0.0000132 | 1 | 0.0000442 | 1 | 0.00000173 | 0 | 0.00000432 | 0 | 0.0000057 | 1 | 0.00000173 | 0 | 0.00000173 | 0 | 0.00000173 | 0 | 0.000035 | 1 | 0.00000173 | 0 | 0.0000942 | 1 | 0.000285 | 1 | 1.73E-06 | 0 | 0.00224 | 1 | 1.73E-06 | 0 | 0.000748 | 1 | 0.000095 | 1 |
| 2023-06-29 | 0.000256 | 1 | 0.000238 | 1 | 5E-05 | 1 | 0.0000207 | 1 | 0.0000655 | 1 | 0.0000061 | 0 | 0.0000427 | 1 | 0.0000061 | 0 | 0.0000061 | 0 | 0.0000061 | 0 | 0.0000061 | 0 | 0.0000259 | 1 | 0.0000061 | 0 | 0.0000137 | 1 | 0.000232 | 1 | 6.1E-06 | 0 | 0.000884 | 1 | 6.1E-06 | 0 | 0.000881 | 1 | 0.000157 | 1 |
| 2023-07-11 | 0.000051 | 1 | 0.0000581 | 1 | 1E-05 | 1 | 0.0000068 | 0 | 0.0000884 | 1 | 0.0000068 | 0 | 0.0000782 | 1 | 0.0000068 | 0 | 0.0000068 | 0 | 0.0000068 | 0 | 0.0000068 | 0 | 0.0000319 | 1 | 0.0000068 | 0 | 0.000136 | 1 | 0.0000707 | 1 | 6.8E-06 | 0 | 0.00036 | 1 | 6.8E-06 | 0 | 0.00072 | 1 | 0.00016 | 1 |
| 2023-08-04 | 0.000197 | 1 | 0.000297 | 1 | 0.0001 | 1 | 0.0000248 | 1 | 0.000165 | 1 | 0.000033 | 1 | 0.00000185 | 0 | 0.00000742 | 0 | 0.00000742 | 0 | 0.00000742 | 0 | 0.0000779 | 1 | 0.000126 | 1 | 0.00000742 | 0 | 0.000538 | 1 | 0.00032 | 1 | 7.42E-06 | 0 | 0.000586 | 1 | 7.42E-06 | 0 | 0.00201 | 1 | 0.000586 | 1 |
| 2023-08-18 | 0.00063 | 1 | 0.000565 | 1 | 0.0081 | 1 | 0.0000165 | 1 | 0.0000744 | 1 | 0.00000715 | 0 | 0.00000179 | 0 | 0.00000715 | 0 | 0.00000715 | 0 | 0.00000715 | 0 | 0.00000715 | 0 | 0.0000411 | 1 | 0.00000715 | 0 | 0.000152 | 1 | 0.000626 | 1 | 7.15E-06 | 0 | 0.00537 | 1 | 7.15E-06 | 0 | 0.000959 | 1 | 0.000142 | 1 |
| 2023-08-28 | 0.000292 | 1 | 0.000221 | 1 | 0.002 | 1 | 0.0000134 | 1 | 0.0000249 | 1 | 0.00000504 | 0 | 0.00000126 | 0 | 0.00000504 | 0 | 0.00000504 | 0 | 0.00000504 | 0 | 0.00000504 | 0 | 0.0000144 | 1 | 0.00000504 | 0 | 0.0000756 | 1 | 0.000202 | 1 | 5.04E-06 | 0 | 0.0017 | 1 | 5.04E-06 | 0 | 0.00037 | 1 | 6.75E-05 | 1 |
| 2023-09-09 | 0.00012 | 1 | 0.000134 | 1 | 0.0028 | 1 | 0.00000737 | 0 | 0.000098 | 1 | 0.00000737 | 0 | 0.0000184 | 0 | 0.00000737 | 0 | 0.00000737 | 0 | 0.00000737 | 0 | 0.00000737 | 0 | 0.0000313 | 1 | 0.00000737 | 0 | 0.0000112 | 1 | 0.000311 | 1 | 7.37E-06 | 0 | 0.00133 | 1 | 7.37E-06 | 0 | 0.000534 | 1 | 0.000112 | 1 |
| 2023-09-21 | 0.000282 | 1 | 0.000299 | 1 | 0.0038 | 1 | 0.0000163 | 1 | 0.0000504 | 1 | 0.00000741 | 0 | 0.00000185 | 0 | 0.00000741 | 0 | 0.00000741 | 0 | 0.00000741 | 0 | 0.00000741 | 0 | 0.0000307 | 1 | 0.00000741 | 0 | 0.0000747 | 1 | 0.0000308 | 1 | 7.41E-06 | 0 | 0.0026 | 1 | 7.41E-06 | 0 | 0.000556 | 1 | 0.000105 | 1 |
| 2023-10-03 | 0.00138 | 1 | 0.00191 | 1 | 0.001 | 1 | 0.000644 | 1 | 0.000152 | 1 | 0.0000455 | 1 | 0.0000108 | 1 | 0.0000619 | 1 | 0.0000364 | 1 | 0.0000217 | 1 | 0.0000206 | 1 | 0.0000864 | 1 | 0.00000595 | 1 | 0.000388 | 1 | 0.000563 | 1 | 2.48E-05 | 1 | 0.00434 | 1 | 1.75E-06 | 0 | 0.00216 | 1 | 0.000357 | 1 |
| 2023-10-15 | 0.0000884 | 1 | 0.0000907 | 1 | 6E-06 | 1 | 0.00000949 | 1 | 0.0000396 | 1 | 0.00000164 | 0 | 0.00000164 | 0 | 0.00000164 | 0 | 0.00000164 | 0 | 0.00000164 | 0 | 0.00000164 | 0 | 0.0000118 | 1 | 0.00000164 | 0 | 0.0000714 | 1 | 0.000054 | 1 | 1.64E-06 | 0 | 0.000488 | 1 | 1.64E-06 | 0 | 0.000304 | 1 | 0.000074 | 1 |
| 2023-10-27 | 0.000199 | 1 | 0.000186 | 1 | 5E-06 | 1 | 0.00000821 | 1 | 0.00000642 | 1 | 0.00000178 | 0 | 0.00000178 | 0 | 0.00000178 | 0 | 0.00000178 | 0 | 0.00000178 | 0 | 0.00000178 | 0 | 0.00000178 | 0 | 0.00000178 | 0 | 0.0000132 | 1 | 0.0000535 | 1 | 1.78E-06 | 0 | 0.00191 | 1 | 1.78E-06 | 0 | 7.99E-05 | 1 | 1.11E-05 | 1 |
| 2023-11-10 | 0.000134 | 1 | 0.00015 | 1 | 1E-05 | 1 | 0.0000129 | 1 | 0.0000414 | 1 | 0.00000189 | 0 | 0.00000189 | 0 | 0.00000189 | 0 | 0.00000189 | 0 | 0.00000189 | 0 | 0.00000189 | 0 | 0.00000189 | 0 | 0.00000189 | 0 | 0.0000265 | 1 | 0.0000741 | 1 | 1.89E-06 | 0 | 0.00132 | 1 | 1.89E-06 | 0 | 0.000157 | 1 | 2.23E-05 | 1 |
| 2023-11-22 | 0.000269 | 1 | 0.000335 | 1 | 3E-05 | 1 | 0.00000958 | 1 | 0.0000153 | 1 | 0.00000383 | 1 | 0.00000537 | 1 | 0.0000169 | 1 | 0.00000958 | 1 | 0.00000537 | 1 | 0.00000192 | 0 | 0.00000958 | 1 | 0.00000192 | 0 | 0.0000529 | 1 | 0.000108 | 1 | 5.75E-06 | 0 | 0.00169 | 1 | 1.92E-06 | 0 | 0.000225 | 1 | 4.64E-05 | 1 |
| 2023-12-07 | 0.000877 | 1 | 0.00112 | 1 | 5E-05 | 1 | 0.0000226 | 1 | 0.0000126 | 1 | 0.00000359 | 1 | 0.00000683 | 1 | 0.0000295 | 1 | 0.0000155 | 1 | 0.0000126 | 1 | 0.00000755 | 1 | 0.0000237 | 1 | 0.0000018 | 0 | 0.0000586 | 1 | 0.00034 | 1 | 1.58E-05 | 1 | 0.006 | 1 | 1.8E-06 | 0 | 0.000442 | 1 | 3.59E-05 | 1 |
| 2023-12-14 | 0.00027 | 1 | 0.000365 | 1 | 4E-05 | 1 | 0.0000068 | 1 | 0.0000215 | 1 | 0.00000327 | 1 | 0.00000408 | 1 | 0.0000144 | 1 | 0.00000626 | 1 | 0.00000626 | 1 | 0.00000327 | 1 | 0.0000136 | 1 | 0.00000136 | 0 | 0.0000493 | 1 | 0.000225 | 1 | 7.62E-06 | 1 | 0.00175 | 1 | 1.36E-06 | 0 | 0.000291 | 1 | 4.16E-05 | 1 |
| 2023-12-29 | 0.000129 | 1 | 0.000137 | 1 | 1E-05 | 1 | 0.00000136 | 0 | 0.00000353 | 1 | 0.00000136 | 0 | 0.00000136 | 0 | 0.00000136 | 0 | 0.00000136 | 0 | 0.00000136 | 0 | 0.00000136 | 0 | 0.00000136 | 0 | 0.00000136 | 0 | 0.00000571 | 1 | 0.0000709 | 1 | 1.36E-06 | 0 | 0.00138 | 1 | 1.36E-06 | 0 | 6.06E-05 | 1 | 8.97E-06 | 1 |
| 2024-01-10 | 0.000192 | 1 | 0.000215 | 1 | 3E-05 | 1 | 0.0000013 | 0 | 0.00000544 | 1 | 0.0000013 | 0 | 0.0000013 | 0 | 0.0000013 | 0 | 0.0000013 | 0 | 0.0000013 | 0 | 0.0000013 | 0 | 0.00000311 | 1 | 0.0000013 | 0 | 0.0000013 | 0 | 0.0000791 | 1 | 1.3E-06 | 0 | 0.00192 | 1 | 1.3E-06 | 0 | 8.58E-05 | 1 | 9.07E-06 | 1 |
| 2024-01-19 | 0.000293 | 1 | 0.000326 | 1 | 2E-05 | 1 | 0.0000102 | 1 | 0.0000181 | 1 | 0.0000183 | 1 | 0.0000155 | 1 | 0.0000283 | 1 | 0.0000148 | 1 | 0.0000122 | 1 | 0.0000135 | 1 | 0.0000321 | 1 | 0.00000127 | 0 | 0.0000698 | 1 | 0.0000672 | 1 | 1.15E-05 | 1 | 0.00484 | 1 | 2.8E-06 | 1 | 0.000127 | 1 | 6.04E-05 | 1 |
| 2024-01-31 | 0.000306 | 1 | 0.000374 | 1 | 4E-05 | 1 | 0.0000126 | 0 | 0.0000991 | 1 | 0.0000126 | 0 | 0.0000126 | 0 | 0.00000657 | 1 | 0.0000329 | 1 | 0.0000329 | 1 | 0.0000126 | 0 | 0.00000834 | 1 | 0.00000126 | 0 | 0.0000397 | 1 | 0.000248 | 1 | 3.54E-06 | 1 | 0.00176 | 1 | 1.26E-06 | 0 | 0.000263 | 1 | 0.000025 | 1 |
| 2024-02-12 | 0.0000769 | 1 | 0.0000965 | 1 | 2E-05 | 1 | 0.00000557 | 1 | 0.00000133 | 0 | 0.00000133 | 0 | 0.00000133 | 0 | 0.00000133 | 0 | 0.00000133 | 0 | 0.00000133 | 0 | 0.00000133 | 0 | 0.00000292 | 1 | 0.00000133 | 0 | 0.0000117 | 1 | 0.0000769 | 1 | 1.33E-06 | 0 | 0.000535 | 1 | 1.33E-06 | 0 | 8.06E-05 | 1 | 1.01E-05 | 1 |
| 2024-02-24 | 0.00221 | 1 | 0.00305 | 1 | 0.0002 | 1 | 0.000291 | 1 | 0.0000229 | 1 | 0.0000869 | 1 | 0.0000193 | 1 | 0.0000794 | 1 | 0.0000146 | 1 | 0.00000833 | 1 | 0.0000705 | 1 | 0.000182 | 1 | 0.00000625 | 1 | 0.000176 | 1 | 0.000273 | 1 | 5.47E-06 | 1 | 0.00168 | 1 | 2.16E-05 | 1 | 0.000596 | 1 | 0.000241 | 1 |
| 2024-03-07 | 0.000102 | 1 | 0.00016 | 1 | 2E-05 | 1 | 0.00000519 | 1 | 0.00000283 | 1 | 0.00000118 | 0 | 0.00000118 | 0 | 0.00000543 | 1 | 0.00000118 | 0 | 0.00000307 | 1 | 0.00000118 | 0 | 0.00000731 | 1 | 0.00000118 | 0 | 0.0000243 | 1 | 0.0000772 | 1 | 2.83E-06 | 1 | 0.000705 | 1 | 1.18E-06 | 0 | 0.000105 | 1 | 0.000016 | 1 |
| 2024-03-21 | 0.0000612 | 1 | 0.0000606 | 1 | 9E-06 | 1 | 0.00000325 | 1 | 0.00000148 | 0 | 0.00000148 | 0 | 0.00000148 | 0 | 0.00000296 | 1 | 0.00000148 | 0 | 0.00000148 | 0 | 0.00000148 | 0 | 0.00000503 | 1 | 0.00000148 | 0 | 0.0000139 | 1 | 0.0000429 | 1 | 1.48E-06 | 0 | 0.000494 | 1 | 1.48E-06 | 0 | 5.38E-05 | 1 | 0.000013 | 1 |
| 2024-03-31 | 0.0000817 | 1 | 0.000169 | 1 | 7E-06 | 1 | 0.00000348 | 1 | 0.00000145 | 0 | 0.00000145 | 0 | 0.00000145 | 0 | 0.00000145 | 0 | 0.00000145 | 0 | 0.00000145 | 0 | 0.00000145 | 0 | 0.00000435 | 1 | 0.00000145 | 0 | 0.0000162 | 1 | 0.0000438 | 1 | 1.45E-06 | 0 | 0.00406 | 1 | 1.45E-06 | 0 | 0.000106 | 1 | 1.45E-05 | 1 |
| 2024-04-12 | 0.0000361 | 1 | 0.0000594 | 1 | 2E-05 | 1 | 0.0000169 | 1 | 0.0000378 | 1 | 0.0000032 | 1 | 0.0000291 | 1 | 0.0000204 | 1 | 0.0000931 | 1 | 0.0000524 | 1 | 0.0000553 | 1 | 0.0000119 | 1 | 0.00000145 | 0 | 0.0000553 | 1 | 0.000105 | 1 | 6.11E-06 | 1 | 0.000223 | 1 | 1.45E-06 | 0 | 0.000222 | 1 | 0.000041 | 1 |
| 2024-04-24 | 0.000098 | 1 | 0.000166 | 1 | 2E-05 | 1 | 0.00000909 | 1 | 0.00000313 | 1 | 0.00000142 | 0 | 0.00000142 | 0 | 0.00000142 | 0 | 0.00000142 | 0 | 0.00000142 | 0 | 0.00000142 | 0 | 0.00000909 | 1 | 0.00000142 | 0 | 0.0000503 | 1 | 0.000046 | 1 | 1.42E-06 | 0 | 0.000369 | 1 | 1.42E-06 | 0 | 0.000223 | 1 | 5.14E-05 | 1 |
| 2024-05-06 | 0.0000322 | 1 | 0.0000574 | 1 | 3E-05 | 1 | 0.0000137 | 1 | 0.0000297 | 1 | 0.0000016 | 0 | 0.0000016 | 0 | 0.0000016 | 0 | 0.0000016 | 0 | 0.0000016 | 0 | 0.0000016 | 0 | 0.0000188 | 1 | 0.0000016 | 0 | 0.000122 | 1 | 0.0000922 | 1 | 1.6E-06 | 0 | 0.000192 | 1 | 1.6E-06 | 0 | 0.000498 | 1 | 0.000119 | 1 |
| 2024-05-18 | 0.0000729 | 1 | 0.0000953 | 1 | 3E-05 | 1 | 0.0000175 | 1 | 0.00000714 | 1 | 0.00000153 | 0 | 0.00000153 | 0 | 0.00000153 | 0 | 0.00000153 | 0 | 0.00000153 | 0 | 0.00000153 | 0 | 0.000015 | 1 | 0.00000153 | 0 | 0.0000928 | 1 | 0.000101 | 1 | 1.53E-06 | 0 | 0.000493 | 1 | 1.53E-06 | 0 | 0.000358 | 1 | 8.43E-05 | 1 |
| 2024-05-31 | 0.000128 | 1 | 0.000185 | 1 | 3E-05 | 1 | 0.00000158 | 0 | 0.0000253 | 1 | 0.00000158 | 0 | 0.00000158 | 0 | 0.00000158 | 0 | 0.00000158 | 0 | 0.00000158 | 0 | 0.00000158 | 0 | 0.0000133 | 1 | 0.00000158 | 0 | 0.0000671 | 1 | 0.000106 | 1 | 1.58E-06 | 0 | 0.000396 | 1 | 1.58E-06 | 0 | 0.000283 | 1 | 6.24E-05 | 1 |
| 2024-06-11 | 0.000117 | 1 | 0.000188 | 1 | 9E-05 | 1 | 0.0000128 | 1 | 0.0000364 | 1 | 0.00000156 | 0 | 0.00000156 | 0 | 0.00000156 | 0 | 0.00000156 | 0 | 0.00000156 | 0 | 0.00000156 | 0 | 0.0000146 | 1 | 0.00000156 | 0 | 0.0000965 | 1 | 0.0000201 | 1 | 1.56E-06 | 0 | 0.00604 | 1 | 1.56E-06 | 0 | 0.000766 | 1 | 0.000111 | 1 |
| 2024-06-23 | 0.000042 | 1 | 0.0000744 | 1 | 2E-05 | 1 | 0.00000202 | 1 | 0.0000617 | 1 | 0.0000036 | 1 | 0.00000439 | 0 | 0.00000439 | 0 | 0.00000439 | 0 | 0.00000439 | 0 | 0.00000439 | 0 | 0.0000246 | 1 | 0.00000439 | 0 | 0.0000103 | 1 | 0.0000454 | 1 | 4.39E-07 | 0 | 0.000163 | 1 | 4.39E-07 | 0 | 0.000357 | 1 | 0.00013 | 1 |
| 2024-07-05 | 0.0000539 | 1 | 0.000114 | 1 | 5E-05 | 1 | 0.00000513 | 1 | 0.0000158 | 1 | 0.0000802 | 1 | 0.0000016 | 0 | 0.0000016 | 0 | 0.0000016 | 0 | 0.00000609 | 1 | 0.0000016 | 0 | 0.0000606 | 1 | 0.0000016 | 0 | 0.000287 | 1 | 0.0000686 | 1 | 3.53E-06 | 1 | 0.000215 | 1 | 1.6E-06 | 0 | 0.00107 | 1 | 0.000372 | 1 |
| 2024-07-29 | 0.000136 | 1 | 0.000235 | 1 | 9E-05 | 1 | 0.0000164 | 1 | 0.000197 | 1 | 0.0000106 | 1 | 0.00000409 | 0 | 0.00000409 | 0 | 0.00000409 | 0 | 0.00000409 | 0 | 0.00000409 | 0 | 0.0000172 | 1 | 0.00000409 | 0 | 0.00033 | 1 | 0.00013 | 1 | 4.09E-06 | 0 | 0.000741 | 1 | 4.09E-06 | 0 | 0.00118 | 1 | 0.000486 | 1 |

**VOC Concentrations (ug/m3), Summa Cannister**

| VOC | | 2022-10-17 | 2022-10-31 | 2022-11-24 | 2022-12-12 | 2022-12-17 | 2023-01-16 | 2023-01-26 | 2023-02-10 | 2023-03-01 | 2023-04-13 | 2023-05-08 | 2023-06-05 | 2023-07-12 | 2023-08-10 | 2023-09-06 | 2023-10-07 | 2023-11-10 | 2023-12-06 | 2024-01-12 | 2024-02-02 | 2024-03-02 | 2024-04-02 | 2024-05-05 | 2024-06-02 | 2024-07-02 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | Conc | 0.072 | 0.072 | 0.072 | 0.072 | 0.072 | 0.072 | 0.072 | 0.072 | 0.072 | 0.072 | 0.072 | 0.072 | 0.072 | 0.072 | 0.072 | 0.072 | 0.072 | 0.072 | 0.072 | 0.072 | 0.072 | 0.072 | 0.072 | 0.072 | 0.072 |
| | Detection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1,1,1-Trichloroethane | Conc | 0.137 | 0.137 | 0.137 | 0.137 | 0.137 | 0.137 | 0.137 | 0.137 | 0.137 | 0.137 | 0.137 | 0.137 | 0.137 | 0.137 | 0.137 | 0.137 | 0.137 | 0.137 | 0.137 | 0.137 | 0.137 | 0.137 | 0.137 | 0.137 | 0.137 |
| | Detection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1,1,2,2-Tetrachloroethane | Conc | 0.0093 | 0.00925 | 0.009 | 0.0093 | 0.0093 | 0.00925 | 0.00925 | 0.00925 | 0.00925 | 0.00925 | 0.00925 | 0.00925 | 0.00925 | 0.00925 | 0.00925 | 0.00925 | 0.00925 | 0.00925 | 0.00925 | 0.00925 | 0.00925 | 0.00925 | 0.00925 | 0.00925 | 0.00925 |
| | Detection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1,1,2-Trichloroethane | Conc | 0.0328 | 0.0328 | 0.033 | 0.0328 | 0.0328 | 0.0328 | 0.0328 | 0.0328 | 0.0328 | 0.0328 | 0.0328 | 0.0328 | 0.0328 | 0.0328 | 0.0328 | 0.0328 | 0.0328 | 0.0328 | 0.0328 | 0.0328 | 0.0328 | 0.0328 | 0.0328 | 0.0328 | 0.0328 |
| | Detection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1,1-Dichloroethane | Conc | 0.101 | 0.101 | 0.101 | 0.101 | 0.101 | 0.101 | 0.101 | 0.101 | 0.101 | 0.101 | 0.101 | 0.101 | 0.101 | 0.101 | 0.101 | 0.101 | 0.101 | 0.101 | 0.101 | 0.101 | 0.101 | 0.101 | 0.101 | 0.101 | 0.101 |
| | Detection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1,1-Dichloroethylene | Conc | 0.099 | 0.099 | 0.099 | 0.099 | 0.099 | 0.099 | 0.099 | 0.099 | 0.099 | 0.099 | 0.099 | 0.099 | 0.099 | 0.099 | 0.099 | 0.099 | 0.099 | 0.099 | 0.099 | 0.099 | 0.099 | 0.099 | 0.099 | 0.099 | 0.099 |
| | Detection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1,2,4-Trichlorobenzene | Conc | 0.371 | 0.371 | 0.371 | 0.371 | 0.371 | 0.371 | 0.371 | 0.371 | 0.371 | 0.371 | 0.371 | 0.371 | 0.371 | 0.371 | 0.371 | 0.371 | 0.371 | 0.371 | 0.371 | 0.371 | 0.371 | 0.371 | 0.371 | 0.371 | 0.371 |
| | Detection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1,2,4-Trimethylbenzene | Conc | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 |
| | Detection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1,2-Dichlorobenzene | Conc | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 |
| | Detection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1,2-Dichloroethane | Conc | 0.0471 | 0.0614 | 0.092 | 0.0809 | 0.0751 | 0.0741 | 0.0868 | 0.0956 | 0.0971 | 0.119 | 0.0905 | 0.0818 | 0.0828 | 0.0567 | 0.0549 | 0.0643 | 0.0703 | 0.089 | 0.119 | 0.11 | 0.0966 | 0.101 | 0.0978 | 0.095 | 0.0655 |
| | Detection | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1,2-Dichloropropane | Conc | 0.116 | 0.116 | 0.116 | 0.116 | 0.116 | 0.116 | 0.116 | 0.116 | 0.116 | 0.116 | 0.116 | 0.116 | 0.116 | 0.116 | 0.116 | 0.116 | 0.116 | 0.116 | 0.116 | 0.116 | 0.116 | 0.116 | 0.116 | 0.116 | 0.116 |
| | Detection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1,2-Dichlorotetrafluoroethane | Conc | 0.595 | 0.595 | 0.595 | 0.595 | 0.595 | 0.595 | 0.595 | 0.595 | 0.595 | 0.595 | 0.595 | 0.595 | 0.595 | 0.595 | 0.595 | 0.595 | 0.595 | 0.595 | 0.595 | 0.595 | 0.595 | 0.595 | 0.595 | 0.595 | 0.595 |
| | Detection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1,3,5-Trimethylbenzene | Conc | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 |
| | Detection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1,3-Butadiene | Conc | 0.555 | 0.555 | 0.555 | 0.555 | 0.555 | 0.555 | 0.555 | 0.555 | 0.555 | 0.555 | 0.555 | 0.555 | 0.555 | 0.555 | 0.555 | 0.555 | 0.555 | 0.555 | 0.555 | 0.555 | 0.555 | 0.555 | 0.555 | 0.555 | 0.555 |
| | Detection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1,3-Dichlorobenzene | Conc | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| | Detection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1,4-Dichlorobenzene | Conc | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 |
| | Detection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1,4-Dioxane | Conc | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| | Detection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2,2,4-Trimethylpentane | Conc | 0.467 | 0.467 | 0.467 | 0.467 | 0.467 | 7.55 | 0.467 | 0.467 | 0.467 | 0.467 | 0.467 | 0.467 | 0.467 | 0.467 | 0.467 | 0.467 | 0.467 | 0.467 | 0.467 | 0.467 | 0.467 | 0.467 | 0.467 | 0.467 | 0.467 |
| | Detection | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2-Propanone | Conc | 1.86 | 5.98 | 2.23 | 2.06 | 2.94 | 10.1 | 2.41 | 1.81 | 2.8 | 4.58 | 4.39 | 10.5 | 7.48 | 4.42 | 3.07 | 3.01 | 4.78 | 2.1 | 3.83 | 1.61 | 2.32 | 3.47 | 6.31 | 14.2 | 5.94 |
| | Detection | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2-propanol | Conc | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 |
| | Detection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4-ethyltoluene | Conc | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 |
| | Detection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Benzene | Conc | 0.08 | 0.391 | 0.456 | 0.301 | 0.49 | 0.381 | 0.558 | 0.426 | 0.389 | 0.268 | 0.08 | 0.197 | 0.251 | 0.291 | 0.587 | 0.629 | 0.301 | 0.343 | 0.411 | 0.536 | 0.516 | 0.281 | 0.212 | 0.08 | 0.08 |
| | Detection | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |
| Benzyl chloride | Conc | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 |
| | Detection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bromodichloromethane | Conc | 0.67 | 0.67 | 0.67 | 0.67 | 0.67 | 0.67 | 0.67 | 0.67 | 0.67 | 0.67 | 0.67 | 0.67 | 0.67 | 0.67 | 0.67 | 0.67 | 0.67 | 0.67 | 0.67 | 0.67 | 0.67 | 0.67 | 0.67 | 0.67 | 0.67 |
| | Detection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bromoform | Conc | 0.515 | 0.515 | 0.515 | 0.515 | 0.515 | 0.515 | 0.515 | 0.515 | 0.515 | 0.515 | 0.515 | 0.515 | 0.515 | 0.515 | 0.515 | 0.515 | 0.515 | 0.515 | 0.515 | 0.515 | 0.515 | 0.515 | 0.515 | 0.515 | 0.515 |
| | Detection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bromomethane | Conc | 0.097 | 0.097 | 0.097 | 0.097 | 0.097 | 0.097 | 0.097 | 0.097 | 0.097 | 0.097 | 0.097 | 0.097 | 0.097 | 0.097 | 0.097 | 0.097 | 0.097 | 0.097 | 0.097 | 0.097 | 0.097 | 0.097 | 0.097 | 0.097 | 0.097 |
| | Detection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Carbon Disulfide | Conc | 0.78 | 0.78 | 0.78 | 0.78 | 0.78 | 0.78 | 0.78 | 0.78 | 0.78 | 0.78 | 0.78 | 0.78 | 0.78 | 0.78 | 0.78 | 0.78 | 0.78 | 0.78 | 0.78 | 0.78 | 0.78 | 0.78 | 0.78 | 0.78 | 0.78 |
| | Detection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Carbon Tetrachloride | Conc | 0.683 | 0.852 | 0.626 | 0.724 | 0.542 | 0.481 | 0.691 | 0.881 | 0.88 | 0.591 | 0.587 | 0.562 | 0.974 | 0.805 | 0.755 | 0.801 | 0.694 | 0.669 | 0.666 | 0.752 | 0.845 | 0.738 | 0.729 | 0.627 | 0.559 |
| | Detection | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Chlorobenzene | Conc | 0.115 | 0.115 | 0.115 | 0.115 | 0.115 | 0.115 | 0.115 | 0.115 | 0.115 | 0.115 | 0.115 | 0.115 | 0.115 | 0.115 | 0.115 | 0.115 | 0.115 | 0.115 | 0.115 | 0.115 | 0.115 | 0.115 | 0.115 | 0.115 | 0.115 |
| | Detection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chloroethane | Conc | 0.396 | 0.396 | 0.396 | 0.396 | 0.396 | 0.396 | 0.396 | 0.396 | 0.396 | 0.396 | 0.396 | 0.396 | 0.396 | 0.396 | 0.396 | 0.396 | 0.396 | 0.396 | 0.396 | 0.396 | 0.396 | 0.396 | 0.396 | 0.396 | 0.396 |
| | Detection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chloroform | Conc | 0.0975 | 0.0975 | 0.098 | 0.0975 | 0.0975 | 1 | 0.0975 | 0.0975 | 0.0975 | 0.0975 | 0.0975 | 0.0975 | 0.0975 | 0.0975 | 0.0975 | 0.0975 | 0.0975 | 0.0975 | 0.0975 | 0.0975 | 0.0975 | 0.0975 | 0.413 | 0.0975 | 0.0975 |
| | Detection | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Chloromethane | Conc | 0.717 | 1.2 | 1.02 | 0.99 | 0.817 | 0.934 | 0.966 | 0.931 | 0.884 | 1.29 | 1.06 | 1.18 | 1.09 | 0.959 | 0.761 | 0.88 | 0.975 | 0.837 | 1.97 | 0.952 | 1.16 | 1.12 | 1.07 | 1.05 | 0.971 |
| | Detection | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cyclohexane | Conc | 0.344 | 0.344 | 0.344 | 0.344 | 0.344 | 0.344 | 0.344 | 0.344 | 0.344 | 0.344 | 0.344 | 0.344 | 0.344 | 0.344 | 0.344 | 0.344 | 0.344 | 0.344 | 0.344 | 0.344 | 0.344 | 0.344 | 0.344 | 0.344 | 0.344 |
| | Detection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dibromochloromethane | Conc | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 |
| | Detection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| chlorodifluoromethane (FREON 1 | Conc | 2.48 | 3.09 | 2.5 | 2.5 | 2.42 | 3.05 | 2.59 | 2.56 | 2.81 | 2.53 | 2.41 | 1.92 | 2.36 | 2.6 | 1.83 | 2.34 | 2.54 | 2.36 | 2.55 | 2.54 | 2.34 | 2.25 | 2.6 | 2.15 | 2.44 |
| | Detection | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Ethanol (ethyl alcohol) | Conc | 2.52 | 5.31 | 4.69 | 1.91 | 2.44 | 28.4 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 3.78 | 1.89 | 0.94 | 0.94 | 2.16 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| | Detection | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ethyl Acetate | Conc | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| | Detection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ethylbenzene | Conc | 0.108 | 0.108 | 0.108 | 0.108 | 0.284 | 0.59 | 0.108 | 0.108 | 0.108 | 0.108 | 0.108 | 0.108 | 0.108 | 0.108 | 0.108 | 0.108 | 0.108 | 0.108 | 0.108 | 0.108 | 0.108 | 0.108 | 0.108 | 0.108 | 0.108 |
| | Detection | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ethylene Dibromide | Conc | 0.0384 | 0.0384 | 0.038 | 0.0384 | 0.0384 | 0.0384 | 0.0384 | 0.0384 | 0.0384 | 0.0384 | 0.0384 | 0.0384 | 0.0384 | 0.0384 | 0.0384 | 0.0384 | 0.0384 | 0.0384 | 0.0384 | 0.0384 | 0.0384 | 0.0384 | 0.0384 | 0.0384 | 0.0384 |
| | Detection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Heptane | Conc | 0.615 | 0.615 | 0.615 | 0.615 | 0.615 | 0.615 | 0.615 | 0.615 | 0.615 | 0.615 | 0.615 | 0.615 | 0.615 | 0.615 | 0.615 | 0.615 | 0.615 | 0.615 | 0.615 | 0.615 | 0.615 | 0.615 | 0.615 | 0.615 | 0.615 |
| | Detection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hexachlorobutadiene | Conc | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | Detection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hexane | Conc | 0.176 | 0.354 | 0.393 | 0.176 | 0.589 | 0.425 | 0.427 | 0.176 | 0.176 | 0.176 | 0.546 | 0.176 | 0.176 | 0.519 | 0.176 | 0.176 | 0.176 | 0.176 | 0.176 | 1.04 | 0.176 | 0.176 | 0.176 | 0.176 | 0.176 |
| | Detection | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Methyl Butyl Ketone (2-Hexanone | Conc | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 |
| | Detection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Methyl Ethyl Ketone (2-Butanone | Conc | 0.147 | 1.31 | 0.545 | 0.332 | 0.643 | 1.42 | 0.147 | 0.466 | 0.487 | 0.98 | 0.782 | 1.31 | 0.701 | 0.362 | 0.372 | 0.303 | 0.625 | 0.307 | 0.635 | 0.147 | 0.586 | 0.537 | 0.388 | 0.616 | 0.453 |
| | Detection | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 |
| Methyl Isobutyl Ketone | Conc | 0.205 | 0.205 | 0.205 | 0.205 | 0.205 | 0.205 | 0.205 | 0.205 | 0.205 | 0.205 | 0.205 | 0.205 | 0.205 | 0.205 | 0.205 | 0.205 | 0.205 | 0.205 | 0.205 | 0.205 | 0.205 | 0.205 | 0.205 | 0.205 | 0.205 |
| | Detection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Methyl t-butyl ether (MTBE) | Conc | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 |
| | Detection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ethylene Chloride(Dichlorometha | Conc | 0.701 | 0.392 | 0.406 | 0.432 | 0.37 | 0.497 | 0.497 | 0.743 | 0.43 | 0.615 | 1.08 | 0.558 | 0.416 | 0.82 | 0.313 | 0.407 | 4.17 | 0.425 | 0.64 | 1.57 | 0.517 | 0.529 | 0.491 | 0.436 | 0.389 |
| | Detection | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Naphthalene | Conc | 0.262 | 0.262 | 0.262 | 0.262 | 0.262 | 0.262 | 0.262 | 0.262 | 0.262 | 0.262 | 0.262 | 0.262 | 0.262 | 0.262 | 0.262 | 0.262 | 0.262 | 0.262 | 0.262 | 0.262 | 0.262 | 0.262 | 0.262 | 0.262 | 0.262 |
| | Detection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Propene | Conc | 0.43 | 0.6 | 0.43 | 0.43 | 0.86 | 1.12 | 0.69 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 0.6 | 0.43 | 0.6 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 |
| | Detection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Styrene | Conc | 0.106 | 0.106 | 0.106 | 0.106 | 0.106 | 0.106 | 0.106 | 0.106 | 0.106 | 0.106 | 0.106 | 0.238 | 0.106 | 0.106 | 0.106 | 0.106 | 0.106 | 0.106 | 0.106 | 0.106 | 0.106 | 0.106 | 0.106 | 0.106 | 0.106 |
| | Detection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tetrachloroethylene | Conc | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 3.61 | 0.17 | 0.17 |
| | Detection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Tetrahydrofuran | Conc | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 1.45 | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 |
| | Detection | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Toluene | Conc | 0.094 | 0.472 | 1.9 | 0.094 | 0.525 | 0.98 | 0.41 | 0.094 | 0.094 | 0.094 | 0.549 | 0.094 | 0.094 | 0.094 | 0.094 | 0.237 | 0.094 | 0.094 | 0.218 | 1.03 | 0.252 | 0.094 | 0.855 | 0.094 | 0.094 |
| | Detection | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 |
| Total Xylenes | Conc | 0.326 | 0.326 | 0.941 | 0.326 | 0.326 | 1.36 | 0.326 | 0.326 | 0.326 | 0.326 | 0.326 | 0.326 | 0.326 | 0.326 | 0.326 | 0.326 | 0.326 | 0.326 | 0.326 | 0.326 | 0.326 | 0.326 | 0.326 | 0.326 | 0.326 |
| | Detection | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Trichloroethylene | Conc | 0.135 | 0.135 | 0.135 | 0.135 | 0.135 | 0.135 | 0.135 | 0.135 | 0.135 | 0.135 | 0.135 | 0.135 | 0.135 | 0.135 | 0.135 | 0.135 | 0.135 | 0.135 | 0.135 | 0.135 | 0.135 | 0.135 | 0.291 | 0.135 | 0.135 |
| | Detection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| richlorofluoromethane (FREON 1 | Conc | 1.53 | 1.88 | 1.6 | 1.54 | 1.38 | 1.7 | 1.6 | 1.77 | 1.73 | 1.61 | 1.49 | 1.46 | 2 | 1.64 | 1.64 | 1.65 | 1.57 | 1.43 | 1.56 | 1.73 | 1.65 | 1.56 | 1.63 | 1.59 | 1.47 |
| | Detection | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Trichlorotrifluoroethane | Conc | 0.575 | 0.575 | 0.575 | 0.575 | 0.575 | 0.575 | 0.575 | 0.575 | 0.575 | 0.575 | 0.575 | 0.575 | 0.575 | 0.575 | 0.575 | 0.575 | 0.575 | 0.575 | 0.575 | 0.575 | 0.575 | 0.575 | 0.575 | 0.575 | 0.575 |
| | Detection | 

**VOC Concentrations (ug/m3), Thermal Desorption Tube**

| VOC | 1,3-Butadiene | | Benzene | | Ethylbenzene | | Toluene | | m & p-Xylene | | o-Xylene | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Conc | Detection | Conc | Detection | Conc | Detection | Conc | Detection | Conc | Detection | Conc | Detection |
| **Sampling Date** | | | | | | | | | | | | |
| **2022-07-01** | 6.15 | 0 | 2.26 | 1 | 152 | 1 | 84.1 | 1 | 328 | 1 | 57.4 | 1 |
| **2022-08-01** | 6.28 | 0 | 0.523 | 0 | 0.523 | 0 | 0.523 | 0 | 2.62 | 0 | 0.628 | 0 |
| **2022-09-01** | 6.15 | 0 | 0.513 | 0 | 0.513 | 0 | 0.513 | 0 | 2.56 | 0 | 0.615 | 0 |
| **2022-10-01** | 6.28 | 0 | 0.523 | 0 | 0.523 | 0 | 0.523 | 0 | 2.62 | 0 | 0.628 | 0 |
| **2022-11-01** | 6.15 | 0 | 0.513 | 0 | 3.28 | 1 | 0.513 | 0 | 6.97 | 1 | 0.615 | 0 |
| **2022-12-01** | 6.15 | 0 | 0.513 | 0 | 39 | 1 | 0.513 | 0 | 65.6 | 1 | 12.7 | 1 |
| **2023-01-16** | 6.28 | 0 | 0.523 | 0 | 0.523 | 0 | 0.523 | 0 | 2.62 | 0 | 0.628 | 0 |
| **2023-03-01** | 6.28 | 0 | 0.523 | 0 | 0.523 | 0 | 0.523 | 0 | 2.62 | 0 | 0.628 | 0 |
| **2023-04-01** | 6.15 | 0 | 0.513 | 0 | 0.513 | 0 | 3.49 | 1 | 2.56 | 0 | 0.615 | 0 |
| **2023-05-01** | 6.28 | 0 | 0.523 | 0 | 2.93 | 1 | 19.9 | 1 | 25.1 | 1 | 3.14 | 1 |
| **2023-06-03** | 6.28 | 0 | 0.523 | 0 | 0.523 | 0 | 0.523 | 0 | 2.62 | 0 | 0.628 | 0 |
| **2023-08-09** | 6.28 | 0 | 0.523 | 0 | 0.523 | 0 | 0.523 | 0 | 2.62 | 0 | 0.628 | 0 |
| **2023-09-06** | 6.28 | 0 | 0.523 | 0 | 0.523 | 0 | 0.523 | 0 | 2.62 | 0 | 0.628 | 0 |
| **2023-11-01** | 6.28 | 0 | 0.523 | 0 | 0.523 | 0 | 0.523 | 0 | 2.62 | 0 | 0.628 | 0 |
| **2023-12-01** | 6.28 | 0 | 2.05 | 1 | 1.82 | 1 | 2.51 | 1 | 2.62 | 0 | 0.628 | 0 |
| **2024-01-02** | 6.28 | 0 | 0.523 | 0 | 0.523 | 0 | 0.523 | 0 | 2.62 | 0 | 0.628 | 0 |
| **2024-02-01** | 6.15 | 0 | 1.17 | 1 | 0.513 | 0 | 0.513 | 0 | 2.56 | 0 | 0.615 | 0 |
| **2024-03-01** | 6.15 | 0 | 0.513 | 0 | 0.513 | 0 | 0.513 | 0 | 2.56 | 0 | 0.615 | 0 |
| **2024-04-01** | 6.28 | 0 | 0.523 | 0 | 1.65 | 1 | 0.523 | 0 | 2.62 | 0 | 0.628 | 0 |
| **2024-05-01** | 6.28 | 0 | 0.523 | 0 | 0.523 | 0 | 3.14 | 1 | 2.62 | 0 | 0.628 | 0 |
| **2024-06-01** | 6.28 | 0 | 0.523 | 0 | 0.523 | 0 | 0.523 | 0 | 2.62 | 0 | 0.628 | 0 |
| **2024-07-01** | 6.15 | 0 | 0.513 | 0 | 0.513 | 0 | 0.513 | 0 | 2.56 | 0 | 0.615 | 0 |

**Silica Concentrations (ug/m3)**

| Parameter | Cristobalite | | Quartz | | Total (Quartz and Cristobalite) | | Tridymite | |
|---|---|---|---|---|---|---|---|---|
| | Conc | Detection | Conc | Detection | Conc | Detection | Conc | Detection |
| **Sampling Date** | | | | | | | | |
| **2022-06-29** | 0.1 | 0 | 0.1 | 0 | 0.21 | 0 | 0.21 | 0 |
| **2022-07-04** | 0.1 | 0 | 0.1 | 0 | 0.21 | 0 | 0.21 | 0 |
| **2022-07-10** | 0.1 | 0 | 0.21 | 0 | 0.31 | 0 | 0.21 | 0 |
| **2022-07-16** | 0.1 | 0 | 1.8 | 1 | 1.8 | 1 | 0.21 | 0 |
| **2022-07-23** | 0.1 | 0 | 0.1 | 0 | 0.21 | 0 | 0.21 | 0 |
| **2022-09-02** | 0.1 | 0 | 0.5 | 1 | 0.5 | 1 | 0.21 | 0 |
| **2022-09-08** | 0.1 | 0 | 0.21 | 0 | 0.31 | 0 | 0.21 | 0 |
| **2022-09-14** | 0.1 | 0 | 0.62 | 1 | 0.62 | 1 | 0.21 | 0 |
| **2022-09-20** | 0.1 | 0 | 0.52 | 0 | 0.62 | 0 | 0.21 | 0 |
| **2022-09-26** | 0.1 | 0 | 0.71 | 1 | 0.71 | 1 | 0.21 | 0 |
| **2023-04-04** | 0.1 | 0 | 0.46 | 1 | 0.46 | 1 | 0.21 | 0 |
| **2023-05-02** | 0.1 | 0 | 0.46 | 1 | 0.46 | 1 | 0.21 | 0 |
| **2023-06-29** | 0.1 | 0 | 0.27 | 1 | 0.21 | 0 | 0.21 | 0 |
| **2023-07-05** | 0.1 | 0 | 0.54 | 1 | 0.54 | 1 | 0.21 | 0 |
| **2023-08-05** | 0.1 | 0 | 0.62 | 1 | 0.62 | 1 | 0.21 | 0 |
| **2023-09-03** | 0.1 | 0 | 1.3 | 1 | 1.3 | 1 | 0.21 | 0 |
| **2023-10-03** | 0.1 | 0 | 0.75 | 1 | 0.75 | 1 | 0.21 | 0 |
| **2023-10-04** | 0.1 | 0 | 1.9 | 1 | 1.9 | 1 | 0.21 | 0 |
| **2023-10-09** | 0.1 | 0 | 0.1 | 0 | 0.21 | 0 | 0.21 | 0 |
| **2023-11-07** | 0.11 | 0 | 0.11 | 0 | 0.22 | 0 | 0.22 | 0 |
| **2023-11-13** | 0.1 | 0 | 0.24 | 1 | 0.21 | 0 | 0.21 | 0 |
| **2023-11-16** | 0.1 | 0 | 0.36 | 1 | 0.21 | 0 | 0.21 | 0 |
| **2023-12-08** | 0.1 | 0 | 0.46 | 1 | 0.46 | 1 | 0.21 | 0 |
| **2024-01-13** | 0.1 | 0 | 0.1 | 0 | 0.21 | 0 | 0.21 | 0 |
| **2024-03-01** | 0.1 | 0 | 0.54 | 1 | 0.54 | 1 | 0.21 | 0 |
| **2024-04-06** | 0.1 | 0 | 0.67 | 1 | 0.67 | 1 | 0.21 | 0 |
| **2024-07-05** | 0.1 | 0 | 0.1 | 0 | 0.21 | 0 | 0.21 | 0 |
| **2024-08-04** | 0.1 | 0 | 0.1 | 0 | 0.21 | 0 | 0.21 | 0 |

| | Total Dustfall (g/m2/30day) | | |
|---|---|---|---|
| Location | Station 1 | Station 2 | Station 3 |
| Sampling Date | | | |
| 2022-07-01 | - | - | 0.7 |
| 2022-08-01 | - | - | 0.32 |
| 2022-09-01 | - | - | 0.69 |
| 2022-10-01 | 0.91 | 0.8 | 1.9 |
| 2022-11-01 | 0.19 | 0.48 | 0.18 |
| 2022-12-01 | 0.12 | 0.37 | 0.23 |
| 2023-01-03 | 0.15 | 0.14 | 0.1 |
| 2023-02-28 | 0.1 | 0.15 | 0.1 |
| 2023-03-04 | 0.11 | 0.34 | 0.17 |
| 2023-03-31 | 0.57 | 0.57 | 0.9 |
| 2023-04-30 | 0.83 | 2.1 | 4.2 |
| 2023-06-01 | 1.2 | 1.5 | 2.5 |
| 2023-07-01 | 0.76 | 1.5 | 2.1 |
| 2023-08-31 | 0.64 | 0.77 | 0.77 |
| 2023-09-01 | 2.3 | 0.91 | 2.7 |
| 2023-11-01 | 0.58 | 1.7 | 0.43 |
| 2023-12-01 | 0.91 | 0.84 | 0.58 |
| 2024-01-02 | 0.36 | 0.61 | 0.87 |
| 2024-02-01 | 0.38 | 0.31 | 0.36 |
| 2024-03-02 | 0.31 | 0.38 | 0.45 |
| 2024-04-01 | 0.89 | 1.1 | 0.73 |
| 2024-05-01 | 0.86 | 0.28 | 0.72 |
| 2024-06-01 | 1.3 | - | 2.3 |
| 2024-07-01 | 4.5 | - | 2.4 |
| 2024-08-01 | 0.3 | - | 1.3 |
| 2024-09-01 | 0.065 | - | 0.19 |
| 2024-10-01 | 2.7 | - | 1.9 |
| 2024-11-01 | 2.7 | - | 0.91 |
| 2024-11-02 | 0.36 | - | - |
| 2025-01-12 | 0.62 | - | 2.8 |

# Appendix C
# Laboratory Reports

SGS GALSON

Ryan Fletcher
WSP E&I Canada Limited
160 Traders Blvd. E
Unit 2-3
Mississauga, ON L4Z3K7
Canada

December 27, 2023

Account# 24170

Login# L612823

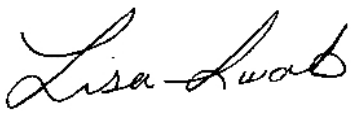
Dear Ryan Fletcher:

Enclosed are the analytical results for the samples received by our laboratory on December 08, 2023. All samples on the chain of custody were received in good condition unless otherwise noted. Any additional observations will be noted on the chain of custody.

Please contact client services at (888) 432-5227 if you would like any additional information regarding this report. Thank you for using SGS Galson.

Sincerely,

SGS Galson



Lisa Swab
Laboratory Director

Enclosure(s)

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## Analytical Disclaimers

- Unless otherwise noted within the report, all quality control results associated with the samples were within established control limits or did not impact reported results.

- Note: The findings recorded within this report were drawn from analysis of the sample(s) provided to the laboratory by the Client (or a third party acting at the Client's direction). The laboratory does not have control over the sampling process, including but not limited to the use of field equipment and collection media, as well as the sampling duration, collection volume or any other collection parameter used by the Client. The findings herein constitute no warranty of the sample's representativeness of any sampled environment, and strictly relate to the samples as they were presented to the laboratory. For recommended sampling collection parameters, please refer to the Sampling and Analysis Guide at www.sgsgalson.com.

- Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceding the final result column may have been rounded and therefore, if carried through the calculations, may not yield an identical final result to the one reported.

- The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).

- Unless otherwise noted within the report, results have not been blank corrected for any field blank or method blank data.

**Accreditations** SGS Galson holds a variety of accreditations and recognitions. Our quality management system conforms with the requirements of ISO/IEC 17025. Where applicable, samples may also be analyzed in accordance with the requirements of ELAP, NELAC, or LELAP under one of the state accrediting bodies listed below. Current Scopes of Accreditation can be viewed at http://www.sgsgalson.com in the accreditations section of the "About" page. To determine if the analyte tested falls under our scope of accreditation, please visit our website or call Client Services at (888) 432-5227.

| National/International | Accreditation/Recognition | Lab ID# | Program/Sector |
|---|---|---|---|
| AIHA-LAP, LLC - IHLAP, ELLAP, EMLAP | ISO/IEC 17025 and USEPA NLLAP | Lab ID 100324 | Industrial Hygiene, Environmental Lead, Environmental Microbiology |

| State | Accreditation/Recognition | Lab ID# | Program/Sector |
|---|---|---|---|
| New York (NYSDOH) | ELAP and NELAC (TNI) | Lab ID: 11626 | Air Analysis, Solid and Hazardous Waste |
| Louisiana (LDEQ) | LELAP | Lab ID: 04083 | Air Analysis, Solid Chemical Materials |

## Legend

| | | | |
|---|---|---|---|
| < - Less than | mg - Milligrams | MDL - Method Detection Limit | ppb - Parts per Billion |
| > - Greater than | ug - Micrograms | NA - Not Applicable | ppm - Parts per Million |
| l - Liters | m3 - Cubic Meters | NS - Not Specified | ppbv - ppb Volume |
| LOQ - Limit of Quantitation | kg - Kilograms | ND - Not Detected | ppmv - ppm Volume |
| ft2 - Square Feet | cm2 - Square Centimeters | in2 - Square Inches | ng - Nanograms |

SGS GALSON

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.sgsgalson.com

LABORATORY ANALYSIS REPORT

Client : Wood E&I Solutions Canada Limi
Site : GREAT BEAR PROJECT
Project No. : OMEMA2303.2023D.100
Date Sampled : 01-OCT-23 - 01-DEC-23
Date Received : 08-DEC-23

Account No.: 24170
Login No. : L612823
Date Analyzed : 26-DEC-23
Report ID : 1400099

**Diesel Particulate Matter as Carbon**

| Sample ID | Lab ID | Air Vol liter | Analyte | Total ug | Conc ug/m3 |
|---|---|---|---|---|---|
| DEC1BELL PON718410-2 | L612823-2 | 5201.22 | Organic Carbon | 14 | 2.6 |
| | | | Elemental Carbon | <0.52 | <0.10 |
| | | | Total Carbon | 14 | 2.6 |
| NOV28BELLPON718410-5 | L612823-3 | 5566.813 | Organic Carbon | 32 | 5.7 |
| | | | Elemental Carbon | <0.52 | <0.094 |
| | | | Total Carbon | 32 | 5.7 |
| NOV15BELLPON718410-1 | L612823-4 | 16591.58 | Organic Carbon | 44 | 2.7 |
| | | | Elemental Carbon | [0.96] | [0.058] |
| | | | Total Carbon | 45 | 2.7 |
| NOV11BELLPON718410-3 | L612823-5 | 6567.578 | Organic Carbon | 33 | 5.0 |
| | | | Elemental Carbon | <0.52 | <0.079 |
| | | | Total Carbon | 33 | 5.0 |

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of Quantitation: 1.8ug OC & EC; 3.6ug TC
Method Detection Limit: 0.52ug OC & EC; 1.0ug TC
Analytical Method : mod. NIOSH 5040; TOA
Collection Media : 25mm Quartz
Submitted by: KGB/JGC
Approved by : JGC
Supervisor: JGC
Date : 27-DEC-23

SGS GALSON

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East Syracuse, NY 13057
(315) 432-5227
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www.sgsgalson.com

LABORATORY ANALYSIS REPORT

Client : Wood E&I Solutions Canada Limi
Site : GREAT BEAR PROJECT
Project No. : OMEMA2303.2023D.100
Date Sampled : 01-OCT-23 - 01-DEC-23
Date Received : 08-DEC-23

Account No.: 24170
Login No. : L612823
Date Analyzed : 26-DEC-23
Report ID : 1400099

**Diesel Particulate Matter as Carbon**

| Sample ID | Lab ID | Air Vol liter | Analyte | Total ug | Conc ug/m3 |
|---|---|---|---|---|---|
| OCT28BELLPON710252-4 | L612823-6 | 3031.028 | Organic Carbon | 33 | 11 |
| | | | Elemental Carbon | <0.52 | <0.17 |
| | | | Total Carbon | 33 | 11 |
| OCT17BELLPON710252-5 | L612823-7 | 2463.93 | Organic Carbon | 42 | 17 |
| | | | Elemental Carbon | <0.52 | <0.21 |
| | | | Total Carbon | 42 | 17 |
| OCT1BELL PON710252-6 | L612823-8 | 10659.12 | Organic Carbon | 84 | 7.9 |
| | | | Elemental Carbon | [0.90] | [0.085] |
| | | | Total Carbon | 85 | 7.9 |

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of Quantitation: 1.8ug OC & EC; 3.6ug TC
Analytical Method : mod. NIOSH 5040; TOA
Collection Media : 25mm Quartz

Method Detection Limit: 0.52ug OC & EC; 1.0ug TC
Submitted by: KGB/JGC
Approved by : JGC
Supervisor: JGC
Date : 27-DEC-23

SGS GALSON

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.sgsgalson.com

LABORATORY FOOTNOTE REPORT

Client Name : Wood E&I Solutions Canada Limited
Site : GREAT BEAR PROJECT
Project No. : OMEMA2303.2023D.100

Date Sampled : 01-OCT-23 - 01-DEC-23 Account No.: 24170
Date Received: 08-DEC-23 Login No. : L612823
Date Analyzed: 26-DEC-23

---

L612823 (Report ID: 1400099):
SOPs: ic-n5040(33)
Reported sample results in brackets are considered estimated, as they are below the level of quantitation.

L612823 (Report ID: 1400099):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated accuracy applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process. The accuracy is based solely on spike recovery data from internal quality control samples. Where N/A appears below, insufficient data is available to provide statistical accuracy and mean recovery values for the associated analyte.

| Parameter | Accuracy | Mean Recovery |
|---|---|---|
| Diesel Particulate Matter as Carbon | +/-10.2% | 104% |

L612823

**SGS GALSON LABORATORIES**

6601 Kirkville Rd
East Syracuse, NY 13057
Tel: (315) 432-5227
888-432-LABS (5227)
Fax: (315) 437-0571
www.galsonlabs.com

☐ New Client?

Client Account No.*: 24170

Report To*: Ryan Fletcher WSP E + I
Jacob.McFee@ksinross.com
Emily.Meek@ksinross.com
Ashley.Moncrief@ksinross.com
Phone No.*: Hanna.Hillier@ksinross.com
Cell No.: Curtis.Bloomberg@ksinross.com
Email Results to: Aaron.Peloquin@ksinross.com
Email address: ryan.fletcher@wsp.com

Invoice To*: apinvoice.canada@wsp.com
Phone No.:
Email:
P.O. No.: OMEMA2303.2023D.100.5120.573000
Credit Card: ☐ Card on File ☐ Call for Credit Card Info.

☐ Samples submitted using the FreePumpLoan™ Program ☐ Samples submitted using the FreeSamplingBadges™ Program

| Need Results By: | (surcharge) |
|---|---|
| ☑ Standard | 0% |
| ☐ 4 Business Days | 35% |
| ☐ 3 Business Days | 50% |
| ☐ 2 Business Days | 75% |
| ☐ Next Day by 6pm | 100% |
| ☐ Next Day by Noon | 150% |
| ☐ Same Day | 200% |

Site Name: Great Bear Project Project: OMEMA2303.2023D.100 Sampled by: EM/CB/AP/JM

Comments:

**Ambient outdoor conditions, left for a period of 24 or 48 hours at 4-6 ft off the ground.**

List description of industry or Process/interferences present in sampling area:
Outside Environment, at 6 " off the ground mounted to a stationary wooden platform.

State samples were collected in (e.g., NY): Ontario

Please indicate which OEL this data will be used for:
☐ OSHA PEL ☐ ACGIH TLV ☐ Cal OSHA ☐ MSHA ☑ Other (specify): Baseline

| Sample Identification* (Maximum of 20 Characters) | Date Sampled | Collection Medium | Sample Volume Sample Time Sample Area* | Sample Units*: L, ml,min,in2,cm2,ft2 | Analysis Requested* | Method Reference^ | Hexavalent Chromium Process (e.g., welding plating, painting, etc.)* |
|---|---|---|---|---|---|---|---|
| Dec 1 Bell Towers PON718410-2 | 12/01/23 | 25mm QFF | 5201.22 | L | Diesel Particulate Matter | NIOSH 5040 | |
| Nov 28 Bell Towers PON718410-5 | 11/28/23 | 25mm QFF | 5566.813 | L | Diesel Particulate Matter | NIOSH 5040 | |
| Nov 15 Bell Towers PON718410-1 | 11/15/23 | 25mm QFF | 16591.5825 | L | Diesel Particulate Matter | NIOSH 5040 | |
| Nov 11 Bell Towers PON718410-3 | 11/11/23 | 25mm QFF | 6567.578 | L | Diesel Particulate Matter | NIOSH 5040 | |
| Oct 28 Bell Towers PON710252-4 | 10/28/23 | 25mm QFF | 3031.028 | L | Diesel Particulate Matter | NIOSH 5040 | |
| Oct 17 Bell Towers PON710252-5 | 10/17/23 | 25mm QFF | 2463.93 | L | Diesel Particulate Matter | NIOSH 5040 | |
| Oct 1 Bell Towers PON710252-6 | 10/01/23 | 25mm QFF | 10659.12 | L | Diesel Particulate Matter | NIOSH 5040 | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

^Galson Laboratories will subsititute our routine/preferred method if it does not match the method listed on the COC unless this box is checked: ☐ Use method(s) listed on COC

For metals analysis: if requesting an analyte with the option of a lower LOQ, please indicate if the lower LOQ is required (only available for certain analytes - see SAG):

~~For crystalline silica: form(s) of silica needed must be indicated (Quartz, Cristobalite, and/or Tridymite)*:~~

| Chain of Custody | Print Name/Signature | Date | Time | | Print Name/Signature | Date | Time |
|---|---|---|---|---|---|---|---|
| Relinquished by: | Jacob McFee | 12/03/23 | 08:00 | Received by: | McKenzie E. Lalone | 12/8/23 | |
| Relinquished by: | | | | Received by: | | | |

Samples received after 3pm will be considered as next day's business
* Required fields, failure to complete these fields may result in a delay in your samples being processed.

SGS GALSON

Ryan Fletcher
WSP E&I Canada Limited
160 Traders Blvd. E
Unit 2-3
Mississauga, ON L4Z3K7
Canada

January 22, 2024

Account# 24170

Login# L615418

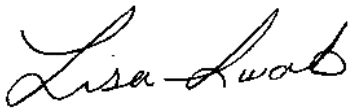
Dear Ryan Fletcher:

Enclosed are the analytical results for the samples received by our laboratory on January 17, 2024. All samples on the chain of custody were received in good condition unless otherwise noted. Any additional observations will be noted on the chain of custody.

Please contact client services at (888) 432-5227 if you would like any additional information regarding this report. Thank you for using SGS Galson.

Sincerely,

SGS Galson



Lisa Swab
Laboratory Director

Enclosure(s)

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| National/International | Accreditation/Recognition | Lab ID# | Program/Sector |
|---|---|---|---|
| AIHA-LAP, LLC - IHLAP, ELLAP, EMLAP | ISO/IEC 17025 and USEPA NLLAP | Lab ID 100324 | Industrial Hygiene, Environmental Lead, Environmental Microbiology |

| State | Accreditation/Recognition | Lab ID# | Program/Sector |
|---|---|---|---|
| New York (NYSDOH) | ELAP and NELAC (TNI) | Lab ID: 11626 | Air Analysis, Solid and Hazardous Waste |
| Louisiana (LDEQ) | LELAP | Lab ID: 04083 | Air Analysis, Solid Chemical Materials |

## Legend

| | | | |
|---|---|---|---|
| < - Less than | mg - Milligrams | MDL - Method Detection Limit | ppb - Parts per Billion |
| > - Greater than | ug - Micrograms | NA - Not Applicable | ppm - Parts per Million |
| l - Liters | m3 - Cubic Meters | NS - Not Specified | ppbv - ppb Volume |
| LOQ - Limit of Quantitation | kg - Kilograms | ND - Not Detected | ppmv - ppm Volume |
| ft2 - Square Feet | cm2 - Square Centimeters | in2 - Square Inches | ng - Nanograms |

SGS GALSON

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East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.sgsgalson.com

LABORATORY ANALYSIS REPORT

Client : Wood E&I Solutions Canada Limi
Site : GREAT BEAR PROJECT
Project No. : OMEMA2303.2023D.100
Date Sampled : 15-DEC-23 - 02-JAN-24
Date Received : 17-JAN-24

Account No.: 24170
Login No. : L615418
Date Analyzed : 19-JAN-24
Report ID : 1403152

**Diesel Particulate Matter as Carbon**

| Sample ID | Lab ID | Air Vol liter | Analyte | Total ug | Conc ug/m3 |
|---|---|---|---|---|---|
| PON718410-4 BELL TOW | L615418-1 | 5427.36 | Organic Carbon | 38 | 7.1 |
| | | | Elemental Carbon | <0.52 | <0.096 |
| | | | Total Carbon | 38 | 7.1 |
| PON718410-6 BELL TOW | L615418-2 | 10319.04 | Organic Carbon | 44 | 4.3 |
| | | | Elemental Carbon | [1.3] | [0.12] |
| | | | Total Carbon | 46 | 4.4 |
| PON718410-10 BELL TO | L615418-3 | 9649.44 | Organic Carbon | 38 | 3.9 |
| | | | Elemental Carbon | <0.52 | <0.054 |
| | | | Total Carbon | 38 | 3.9 |

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of Quantitation: 1.8ug OC & EC; 3.6ug TC
Method Detection Limit: 0.52ug OC & EC; 1.0ug TC
Analytical Method : mod. NIOSH 5040; TOA
Submitted by: PMH/JGC
Approved by : JGC
Date : 22-JAN-24
Collection Media : 25mm Quartz
Supervisor: JGC

SGS GALSON

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.sgsgalson.com

LABORATORY FOOTNOTE REPORT

Client Name : Wood E&I Solutions Canada Limited
Site : GREAT BEAR PROJECT
Project No. : OMEMA2303.2023D.100

Date Sampled : 15-DEC-23 - 02-JAN-24 Account No.: 24170
Date Received: 17-JAN-24 Login No. : L615418
Date Analyzed: 19-JAN-24

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L615418 (Report ID: 1403152):
SOPs: ic-n5040(33)
Reported sample results in brackets are considered estimated, as they are below the level of quantitation.

L615418 (Report ID: 1403152):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated accuracy applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process. The accuracy is based solely on spike recovery data from internal quality control samples. Where N/A appears below, insufficient data is available to provide statistical accuracy and mean recovery values for the associated analyte.

| Parameter | Accuracy | Mean Recovery |
|---|---|---|
| Diesel Particulate Matter as Carbon | +/-9.8% | 101% |

1Z5X626A1540691238
Date:01/17/24
Shipper:UPS
Initials:ML
Prep:UNKNOWN

L6154718

Canada R76

Tel: (315) 432-5227
888-432-LABS (5227)
Fax: (315) 437-0571
www.galsonlabs.com

☐ New Client?

Client Account No.*: 24170

Report To*: ryan.fletcher@wsp.com, ashley.moncrief@kinross.com, hannah.hillier@kinross.com, jacob.mcfee@kinross.com, emily.meek@kinross.com, curtis.bloemberg@kinross.com, aaron.peloquin@kinross.com

Phone No.*:
Cell No.:
Email Results to:
Email address: see above

Invoice To*: apinvoice.canada@woodplc.com

Phone No.:
Email:
P.O. No.: OMEMA2303.2023D.100.5120.573000
Credit Card: ☐ Card on File ☐ Call for Credit Card Info.

☐ Samples submitted using the FreePumpLoan™ Program ☐ Samples submitted using the FreeSamplingBadges™ Program

| Need Results By: | (surcharge) |
|---|---|
| ☑ ~~Standard~~ DOE | 0% |
| ☐ 4 Business Days | 35% |
| ☐ 3 Business Days | 50% |
| ☐ 2 Business Days | 75% |
| ☐ Next Day by 6pm | 100% |
| ☐ Next Day by Noon | 150% |
| ☐ Same Day | 200% |

Site Name: Great Bear Project  Project: OMEMA2303.2023D.100  Sampled by: EM/CB/AP/JM

Comments:

Ambient outdoor conditions, left for a period of 24 or 48 hours at 4-6 ft off the ground.

List description of industry or Process/interferences present in sampling area:

State samples were collected in (e.g., NY): Ontario

Please indicate which OEL this data will be used for:
☐ OSHA PEL ☐ ACGIH TLV ☐ Cal OSHA
☐ MSHA ☑ Other (specify): baseline

| Sample Identification* (Maxmium of 20 Characters) | Date Sampled | Collection Medium | Sample Volume Sample Time Sample Area* | Sample Units*: L, ml,min,in2,cm2,ft2 | Analysis Requested* | Method Reference^ | Hexavalent Chromium Process (e.g., welding plating, painting, etc.)* |
|---|---|---|---|---|---|---|---|
| PON718410-4 Bell Towers | 12/15/23 | 25mm QFF | 5427.36 | L | Diesel Particulate Matter | NIOSH 5040 | |
| PON718410-6 Bell Towers | 12/20/23 | 25mm QFF | 10319.04 | L | Diesel Particulate Matter | NIOSH 5040 | |
| PON718410-10 Bell Towers | 01/02/24 | 25mm QFF | 9649.44 | L | Diesel Particulate Matter | NIOSH 5040 | |
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^Galson Laboratories will subsititute our routine/preferred method if it does not match the method listed on the COC unless this box is checked: ☐ Use method(s) listed on COC

For metals analysis: if requesting an analyte with the option of a lower LOQ, please indicate if the lower LOQ is required (only available for certain analytes - see SAG):

For crystalline silica: form(s) of silica needed must be indicated (Quartz, Cristobalite, and/or Tridymite)*:

| Chain of Custody | Print Name/Signature | Date | Time | | Print Name/Signature | Date | Time |
|---|---|---|---|---|---|---|---|
| Relinquished by: | Jacob McFee / [illegible] | Jan 10 2024 | 13:30 | Received by: | Niyati More | 1/16/24 | |
| Relinquished by: | | | | Received by: | McKenzie E. Lalone | 1/17/24 | 9:29 |

Samples received after 3pm will be considered as next day's business
* Required fields, failure to complete these fields may result in a delay in your samples being processed.

Page 1 of 1

SGS GALSON

Mr. Ryan Fletcher
Wood E&I Solutions Canada Limited
160 Traders Blvd. E
Unit 2-3
Mississauga, ON L4Z3K7
Canada

June 06, 2023

Account# 24170

Login# L595604

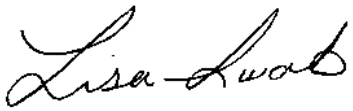
Dear Ryan Fletcher:

Enclosed are the analytical results for the samples received by our laboratory on June 01, 2023. All samples on the chain of custody were received in good condition unless otherwise noted. Any additional observations will be noted on the chain of custody.

Please contact client services at (888) 432-5227 if you would like any additional information regarding this report. Thank you for using SGS Galson.

Sincerely,

SGS Galson



Lisa Swab
Laboratory Director

Enclosure(s)

## Terms and Conditions & General Disclaimers

- This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

- Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

## Analytical Disclaimers

- Unless otherwise noted within the report, all quality control results associated with the samples were within established control limits or did not impact reported results.

- Note: The findings recorded within this report were drawn from analysis of the sample(s) provided to the laboratory by the Client (or a third party acting at the Client's direction). The laboratory does not have control over the sampling process, including but not limited to the use of field equipment and collection media, as well as the sampling duration, collection volume or any other collection parameter used by the Client. The findings herein constitute no warranty of the sample's representativeness of any sampled environment, and strictly relate to the samples as they were presented to the laboratory. For recommended sampling collection parameters, please refer to the Sampling and Analysis Guide at www.sgsgalson.com.

- Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceding the final result column may have been rounded and therefore, if carried through the calculations, may not yield an identical final result to the one reported.

- The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).

- Unless otherwise noted within the report, results have not been blank corrected for any field blank or method blank data.

**Accreditations** SGS Galson holds a variety of accreditations and recognitions. Our quality management system conforms with the requirements of ISO/IEC 17025. Where applicable, samples may also be analyzed in accordance with the requirements of ELAP, NELAC, or LELAP under one of the state accrediting bodies listed below. Current Scopes of Accreditation can be viewed at http://www.sgsgalson.com in the accreditations section of the "About" page. To determine if the analyte tested falls under our scope of accreditation, please visit our website or call Client Services at (888) 432-5227.

| National/International | Accreditation/Recognition | Lab ID# | Program/Sector |
|---|---|---|---|
| AIHA-LAP, LLC - IHLAP, ELLAP, EMLAP | ISO/IEC 17025 and USEPA NLLAP | Lab ID 100324 | Industrial Hygiene, Environmental Lead, Environmental Microbiology |

| State | Accreditation/Recognition | Lab ID# | Program/Sector |
|---|---|---|---|
| New York (NYSDOH) | ELAP and NELAC (TNI) | Lab ID: 11626 | Air Analysis, Solid and Hazardous Waste |
| Louisiana (LDEQ) | LELAP | Lab ID: 04083 | Air Analysis, Solid Chemical Materials |

## Legend

| | | | |
|---|---|---|---|
| < - Less than | mg - Milligrams | MDL - Method Detection Limit | ppb - Parts per Billion |
| > - Greater than | ug - Micrograms | NA - Not Applicable | ppm - Parts per Million |
| l - Liters | m3 - Cubic Meters | NS - Not Specified | ppbv - ppb Volume |
| LOQ - Limit of Quantitation | kg - Kilograms | ND - Not Detected | ppmv - ppm Volume |
| ft2 - Square Feet | cm2 - Square Centimeters | in2 - Square Inches | ng - Nanograms |

SGS GALSON

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LABORATORY ANALYSIS REPORT

| | | | |
|---|---|---|---|
| Client | : Wood E&I Solutions Canada Limi | Account No.: | 24170 |
| Site | : NS | Login No. : | L595604 |
| Project No. | : OMEMA2303D.100 | | |
| Date Sampled | : 19-MAY-23 | Date Analyzed : | 06-JUN-23 |
| Date Received | : 01-JUN-23 | Report ID : | 1361846 |

**Diesel Particulate Matter as Carbon**

| Sample ID | Lab ID | Air Vol liter | Analyte | Total ug | Conc ug/m3 |
|---|---|---|---|---|---|
| PSY6948112 | L595604-1 | 1555 | Organic Carbon | 36 | 23 |
| | | | Elemental Carbon | <0.52 | <0.33 |
| | | | Total Carbon | 36 | 23 |

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of Quantitation: 1.8ug OC & EC; 3.6ug TC  Method Detection Limit: 0.52ug OC & EC; 1.0ug TC
Analytical Method : mod. NIOSH 5040; TOA  Submitted by: KGB/JGC  Approved by : JGC  Date : 06-JUN-23
Collection Media : 25mm Quartz  Supervisor: JGC

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East Syracuse, NY 13057
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LABORATORY FOOTNOTE REPORT

Client Name : Wood E&I Solutions Canada Limited
Site :
Project No. : OMEMA2303D.100

Date Sampled : 19-MAY-23 Account No.: 24170
Date Received: 01-JUN-23 Login No. : L595604
Date Analyzed: 06-JUN-23

L595604 (Report ID: 1361846):
SOPs: ic-n5040(32)
Reported sample results in brackets are considered estimated, as they are below the level of quantitation.

L595604 (Report ID: 1361846):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated accuracy applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process. The accuracy is based solely on spike recovery data from internal quality control samples. Where N/A appears below, insufficient data is available to provide statistical accuracy and mean recovery values for the associated analyte.

| Parameter | Accuracy | Mean Recovery |
|---|---|---|
| Diesel Particulate Matter as Carbon | +/-11% | 104% |

1Z5X626A1541029425
Date:06/01/23
Shipper:UPS
Initials:YBR
Prep:UNKNOWN

CANADA L5956024


East Syracuse, NY 13057
Tel: (315) 432-5227
888-432-LABS (5227)
Fax: (315) 437-0571
www.galsonlabs.com


R42

☐ New Client?

Report To*: Ryan Fletcher WSP E+I

Client Account No.*: 24170

Phone No.*:

Cell No.:

Email Results to: ryan.fletcher@wsp.com

Email address:

Invoice To*: apinvoice.canada@woodplc.com

Phone No.:

Email:

P.O. No.: OMEMA2303.2023D.100

Credit Card: ☐ Card on File ☐ Call for Credit Card Info.

☐ Samples submitted using the FreePumpLoan™ Program ☐ Samples submitted using the FreeSamplingBadges™ Program

| Need Results By: | (surcharge) |
|---|---|
| ☑ Standard | 0% |
| ☐ 4 Business Days | 35% |
| ☐ 3 Business Days | 50% |
| ☐ 2 Business Days | 75% |
| ☐ Next Day by 6pm | 100% |
| ☐ Next Day by Noon | 150% |
| ☐ Same Day | 200% |

Site Name:

Project: OMEMA2303.2023D.100

Sampled by: JM

Comments:

Pump charger not working, only one sample taken

List description of industry or Process/interferences present in sampling area:

State samples were collected in (e.g., NY)

Please indicate which OEL this data will be used for:
☐ OSHA PEL ☐ ACGIH TLV ☐ Cal OSHA
☐ MSHA ☐ Other (specify):

| Sample Identification* (Maxmium of 20 Characters) | Date Sampled | Collection Medium | Sample Volume Sample Time Sample Area* | Sample Units*: L, ml,min,in2,cm2,ft2 | Analysis Requested* | Method Reference^ | Hexavalent Chromium Process (e.g., welding plating, painting, etc.)* |
|---|---|---|---|---|---|---|---|
| PSY694811 2 | 05/19/23 | 25mm QFF, 3pc | 1555 | L | Diesel Particulate | NIOSH 5040 | |
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^Galson Laboratories will subsititute our routine/preferred method if it does not match the method listed on the COC unless this box is checked: ☐ Use method(s) listed on COC

For metals analysis: if requesting an analyte with the option of a lower LOQ, please indicate if the lower LOQ is required (only available for certain analytes - see SAG):

For crystalline silica: form(s) of silica needed must be indicated (Quartz, Cristobalite, and/or Tridymite )*:

| Chain of Custody | Print Name/Signature | Date | Time | | Print Name/Signature | Date | Time |
|---|---|---|---|---|---|---|---|
| Relinquished by: | Jacob McFee | 05/23/23 | | Received by: | Niyati Moore N.M. | 5/30/23 | |
| Relinquished by: | [signature] | 05/25/23 | | Received by: | Yasmine Blinas Yasmine Blinas | 6/1/23 | 8:32 |

Samples received after 3pm will be considered as next day's business

* Required fields, failure to complete these fields may result in a delay in your samples being processed.

SGS GALSON

Mr. Ryan Fletcher
Wood E&I Solutions Canada Limited
160 Traders Blvd. E
Unit 2-3
Mississauga, ON L4Z3K7
Canada

July 10, 2023

Account# 24170

Login# L598346

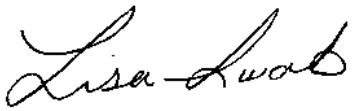
Dear Ryan Fletcher:

Enclosed are the analytical results for the samples received by our laboratory on July 01, 2023. All samples on the chain of custody were received in good condition unless otherwise noted. Any additional observations will be noted on the chain of custody.

Please contact client services at (888) 432-5227 if you would like any additional information regarding this report. Thank you for using SGS Galson.

Sincerely,

SGS Galson



Lisa Swab
Laboratory Director

Enclosure(s)

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- Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

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- Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceding the final result column may have been rounded and therefore, if carried through the calculations, may not yield an identical final result to the one reported.
- The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).
- Unless otherwise noted within the report, results have not been blank corrected for any field blank or method blank data.

**Accreditations** SGS Galson holds a variety of accreditations and recognitions. Our quality management system conforms with the requirements of ISO/IEC 17025. Where applicable, samples may also be analyzed in accordance with the requirements of ELAP, NELAC, or LELAP under one of the state accrediting bodies listed below. Current Scopes of Accreditation can be viewed at http://www.sgsgalson.com in the accreditations section of the "About" page. To determine if the analyte tested falls under our scope of accreditation, please visit our website or call Client Services at (888) 432-5227.

| National/International | Accreditation/Recognition | Lab ID# | Program/Sector |
|---|---|---|---|
| AIHA-LAP, LLC - IHLAP, ELLAP, EMLAP | ISO/IEC 17025 and USEPA NLLAP | Lab ID 100324 | Industrial Hygiene, Environmental Lead, Environmental Microbiology |

| State | Accreditation/Recognition | Lab ID# | Program/Sector |
|---|---|---|---|
| New York (NYSDOH) | ELAP and NELAC (TNI) | Lab ID: 11626 | Air Analysis, Solid and Hazardous Waste |
| Louisiana (LDEQ) | LELAP | Lab ID: 04083 | Air Analysis, Solid Chemical Materials |

## Legend

| | | | |
|---|---|---|---|
| < - Less than | mg - Milligrams | MDL - Method Detection Limit | ppb - Parts per Billion |
| > - Greater than | ug - Micrograms | NA - Not Applicable | ppm - Parts per Million |
| l - Liters | m3 - Cubic Meters | NS - Not Specified | ppbv - ppb Volume |
| LOQ - Limit of Quantitation | kg - Kilograms | ND - Not Detected | ppmv - ppm Volume |
| ft2 - Square Feet | cm2 - Square Centimeters | in2 - Square Inches | ng - Nanograms |

SGS GALSON

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East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.sgsgalson.com

LABORATORY ANALYSIS REPORT

Client : Wood E&I Solutions Canada Limi
Site : NS
Project No. : OMEMA2303.2023D.100
Date Sampled : 20-JUN-23 - 21-JUN-23
Date Received : 01-JUL-23

Account No.: 24170
Login No. : L598346
Date Analyzed : 05-JUL-23 - 07-JUL-23
Report ID : 1366972

**Diesel Particulate Matter as Carbon**

| Sample ID | Lab ID | Air Vol liter | Analyte | Total ug | Conc ug/m3 |
|---|---|---|---|---|---|
| BELL TOWER JUNE 21 | L598346-1 | 3719 | Organic Carbon | 22 | 6.0 |
| | | | Elemental Carbon | <0.52 | <0.14 |
| | | | Total Carbon | 22 | 6.0 |
| BELL TOWER JUNE 20 | L598346-2 | 9468 | Organic Carbon | 17 | 1.8 |
| | | | Elemental Carbon | <0.52 | <0.055 |
| | | | Total Carbon | 17 | 1.8 |

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of Quantitation: 1.8ug OC & EC; 3.6ug TC
Method Detection Limit: 0.52ug OC & EC; 1.0ug TC
Analytical Method : mod. NIOSH 5040; TOA
Submitted by: PMH
Approved by : KGB
Date : 10-JUL-23
Collection Media : 25mm Quartz
Supervisor: JGC

SGS GALSON

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.sgsgalson.com

LABORATORY FOOTNOTE REPORT

Client Name : Wood E&I Solutions Canada Limited
Site :
Project No. : OMEMA2303.2023D.100

Date Sampled : 20-JUN-23 - 21-JUN-23 Account No.: 24170
Date Received: 01-JUL-23 Login No. : L598346
Date Analyzed: 05-JUL-23 - 07-JUL-23

L598346 (Report ID: 1366972):
SOPs: ic-n5040(32)
Reported sample results in brackets are considered estimated, as they are below the level of quantitation.

L598346 (Report ID: 1366972):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated accuracy applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process. The accuracy is based solely on spike recovery data from internal quality control samples. Where N/A appears below, insufficient data is available to provide statistical accuracy and mean recovery values for the associated analyte.

| Parameter | Accuracy | Mean Recovery |
|---|---|---|
| Diesel Particulate Matter as Carbon | +/-11% | 104% |

1Z5X626A4141042745
Date:07/01/23
Shipper:UPS
Initials:KMS
Prep:UNKNOWN

L5983465

☐ New Client?

Report To*: Ryan Fletcher WSP E+I

Invoice To*: apinvoice.canada@woodplc.com

Client Account No.*: 24170

(31)

Canada

Phone No.*:
Cell No.:
Email Results to: ryan.fletcher@wsp.com
Email address:

Phone No.:
Email:
P.O. No.: OMEMA2303.2023D.100.5120.573000
Credit Card: ☐ Card on File ☐ Call for Credit Card Info.

Tel: (315) 432-5227
888-432-LABS (5227)
Fax: (315) 437-0571
www.galsonlabs.com

☐ Samples submitted using the FreePumpLoan™ Program ☐ Samples submitted using the FreeSamplingBadges™ Program

| Need Results By: | (surcharge) |
|---|---|
| ☑ Standard | 0% |
| ☐ 4 Business Days | 35% |
| ☐ 3 Business Days | 50% |
| ☐ 2 Business Days | 75% |
| ☐ Next Day by 6pm | 100% |
| ☐ Next Day by Noon | 150% |
| ☐ Same Day | 200% |

Site Name: Project: OMEMA2303.2023D.100 Sampled by: JM

Comments: * cannot distinguish samples, have same ID and 7/1/23
recvd IDs 23-0143825 & 23-0143824 - YBR 7/1/23

List description of industry or Process/interferences present in sampling area:

State samples were collected in (e.g., NY)

Please indicate which OEL this data will be used for:
☐ OSHA PEL ☐ ACGIH TLV ☐ Cal OSHA
☐ MSHA ☐ Other (specify):

| Sample Identification* (Maxmium of 20 Characters) | Date Sampled | Collection Medium | Sample Volume Sample Time Sample Area* | Sample Units*: L, ml,min,in2,cm2,ft2 | Analysis Requested* | Method Reference^ | Hexavalent Chromium Process (e.g., welding plating, painting, etc.)* |
|---|---|---|---|---|---|---|---|
| Bell Tower | 06/20/23 | 25mm QFF, 3pc | 48 hours | L | Diesel Particulate | NIOSH 5040 | n/a |
| Bell Tower | 06/21/23 | 25mm QFF, 3pc | 18 hours | L | Diesel Particulate | NIOSH 5040 | n/a |

23-0143825 = Bell Tower June 20 PSY699304-4
23-0143824 = Bell Tower June 21 PSY699304-3
ZRK 7/3/23
PSY699304-3: 3719 L
PSY699304-4: 9468 L
KMS 07/05/23

^Galson Laboratories will subsitute our routine/preferred method if it does not match the method listed on the COC unless this box is checked: ☐ Use method(s) listed on COC

For metals analysis: if requesting an analyte with the option of a lower LOQ, please indicate if the lower LOQ is required (only available for certain analytes - see SAG):

For crystalline silica: form(s) of silica needed must be indicated (Quartz, Cristobalite, and/or Tridymite )*:

| Chain of Custody | Print Name/Signature | Date | Time | | Print Name/Signature | Date | Time |
|---|---|---|---|---|---|---|---|
| Relinquished by: | Jacob McFee | | | Received by: | Ariel Moore | 6/30/23 | 8:45AM |
| Relinquished by: | Curtis Bloemberg | | | Received by: | A. Ferreira | 7/1/23 | 854 |

Samples received after 3pm will be considered as next day's business.
* Required fields, failure to complete these fields may result in a delay in your samples being processed.



Page ___ of ___

SGS GALSON

Ryan Fletcher
Wood E&I Solutions Canada Limited
160 Traders Blvd. E
Unit 2-3
Mississauga, ON L4Z3K7
Canada

July 18, 2023

Account# 24170

Login# L599009

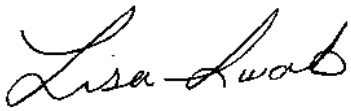
Dear Ryan Fletcher:

Enclosed are the analytical results for the samples received by our laboratory on July 12, 2023. All samples on the chain of custody were received in good condition unless otherwise noted. Any additional observations will be noted on the chain of custody.

Please contact client services at (888) 432-5227 if you would like any additional information regarding this report. Thank you for using SGS Galson.

Sincerely,

SGS Galson



Lisa Swab
Laboratory Director

Enclosure(s)

## Terms and Conditions & General Disclaimers

- This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

- Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

## Analytical Disclaimers

- Unless otherwise noted within the report, all quality control results associated with the samples were within established control limits or did not impact reported results.

- Note: The findings recorded within this report were drawn from analysis of the sample(s) provided to the laboratory by the Client (or a third party acting at the Client's direction). The laboratory does not have control over the sampling process, including but not limited to the use of field equipment and collection media, as well as the sampling duration, collection volume or any other collection parameter used by the Client. The findings herein constitute no warranty of the sample's representativeness of any sampled environment, and strictly relate to the samples as they were presented to the laboratory. For recommended sampling collection parameters, please refer to the Sampling and Analysis Guide at www.sgsgalson.com.

- Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceding the final result column may have been rounded and therefore, if carried through the calculations, may not yield an identical final result to the one reported.

- The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).

- Unless otherwise noted within the report, results have not been blank corrected for any field blank or method blank data.

**Accreditations** SGS Galson holds a variety of accreditations and recognitions. Our quality management system conforms with the requirements of ISO/IEC 17025. Where applicable, samples may also be analyzed in accordance with the requirements of ELAP, NELAC, or LELAP under one of the state accrediting bodies listed below. Current Scopes of Accreditation can be viewed at http://www.sgsgalson.com in the accreditations section of the "About" page. To determine if the analyte tested falls under our scope of accreditation, please visit our website or call Client Services at (888) 432-5227.

| National/International | Accreditation/Recognition | Lab ID# | Program/Sector |
|---|---|---|---|
| AIHA-LAP, LLC - IHLAP, ELLAP, EMLAP | ISO/IEC 17025 and USEPA NLLAP | Lab ID 100324 | Industrial Hygiene, Environmental Lead, Environmental Microbiology |

| State | Accreditation/Recognition | Lab ID# | Program/Sector |
|---|---|---|---|
| New York (NYSDOH) | ELAP and NELAC (TNI) | Lab ID: 11626 | Air Analysis, Solid and Hazardous Waste |
| Louisiana (LDEQ) | LELAP | Lab ID: 04083 | Air Analysis, Solid Chemical Materials |

## Legend

| | | | |
|---|---|---|---|
| < - Less than | mg - Milligrams | MDL - Method Detection Limit | ppb - Parts per Billion |
| > - Greater than | ug - Micrograms | NA - Not Applicable | ppm - Parts per Million |
| l - Liters | m3 - Cubic Meters | NS - Not Specified | ppbv - ppb Volume |
| LOQ - Limit of Quantitation | kg - Kilograms | ND - Not Detected | ppmv - ppm Volume |
| ft2 - Square Feet | cm2 - Square Centimeters | in2 - Square Inches | ng - Nanograms |

SGS GALSON

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.sgsgalson.com

LABORATORY ANALYSIS REPORT

| | | | |
|---|---|---|---|
| Client | : Wood E&I Solutions Canada Limi | Account No.: | 24170 |
| Site | : GREAT BEAR PROJECT | Login No. : | L599009 |
| Project No. | : OMEMA2303.2023D.100 | | |
| Date Sampled | : 29-JUN-23 - 01-JUL-23 | Date Analyzed : | 18-JUL-23 |
| Date Received | : 12-JUL-23 | Report ID : | 1368922 |

**Diesel Particulate Matter as Carbon**

| Sample ID | Lab ID | Air Vol liter | Analyte | Total ug | Conc ug/m3 |
|---|---|---|---|---|---|
| TEARDROP PSY699304-1 | L599009-1 | 10223.56 | Organic Carbon | 13 | 1.3 |
| | | | Elemental Carbon | <0.52 | <0.051 |
| | | | Total Carbon | 13 | 1.3 |
| TEARDROP PSY699304-2 | L599009-2 | 8052.369 | Organic Carbon | 64 | 8.0 |
| | | | Elemental Carbon | [1.4] | [0.17] |
| | | | Total Carbon | 66 | 8.1 |

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of Quantitation: 1.8ug OC & EC; 3.6ug TC  Method Detection Limit: 0.52ug OC & EC; 1.0ug TC
Analytical Method : mod. NIOSH 5040; TOA  Submitted by: PMH/JGC  Approved by : JGC  Date : 18-JUL-23
Collection Media : 25mm Quartz  Supervisor: JGC

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East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.sgsgalson.com

LABORATORY FOOTNOTE REPORT

Client Name : Wood E&I Solutions Canada Limited
Site : GREAT BEAR PROJECT
Project No. : OMEMA2303.2023D.100

Date Sampled : 29-JUN-23 - 01-JUL-23 Account No.: 24170
Date Received: 12-JUL-23 Login No. : L599009
Date Analyzed: 18-JUL-23

L599009 (Report ID: 1368922):
SOPs: ic-n5040(32)
Reported sample results in brackets are considered estimated, as they are below the level of quantitation.

L599009 (Report ID: 1368922):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated accuracy applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process. The accuracy is based solely on spike recovery data from internal quality control samples. Where N/A appears below, insufficient data is available to provide statistical accuracy and mean recovery values for the associated analyte.

| Parameter | Accuracy | Mean Recovery |
|---|---|---|
| Diesel Particulate Matter as Carbon | +/-11% | 104% |

1Z5X626A1541307142
Date:07/12/23
Shipper:UPS
Initials:AMF

Prep:UNKNOWN

☐ New Client?

Client Account No.*: 24170

Report To*: Ryan Fletcher WSP E+I

Invoice To*: apinvoice.canada@woodplc.com

18

Phone No.*:
Cell No.:
Email Results to: ryan.fletcher@wsp.com
Email address:

Phone No.:
Email:
P.O. No.: OMEMA2303.2023D.100.5120.573000
Credit Card: ☐ Card on File ☐ Call for Credit Card Info.

☐ Samples submitted using the FreePumpLoan™ Program ☐ Samples submitted using the FreeSamplingBadges™ Program

Tel: (315) 432-5227
888-432-LABS (5227) Canada
Fax: (315) 437-0571
www.galsonlabs.com

L599009

| Need Results By: | (surcharge) |
|---|---|
| ☑ KMA Standard | 0% |
| ☐ 4 Business Days | 35% |
| ☐ 3 Business Days | 50% |
| ☐ 2 Business Days | 75% |
| ☐ Next Day by 6pm | 100% |
| ☐ Next Day by Noon | 150% |
| ☐ Same Day | 200% |

Site Name: Great Bear Project Project: OMEMA2303.2023D.100 Sampled by: Jacob McFee

Comments:

List description of industry or Process/interferences present in sampling area:

Ambient outdoor conditions, left for a period of 48 hours at 4-6 ft off the ground.

State samples were collected in (e.g., NY)

Please indicate which OEL this data will be used for:
☐ OSHA PEL ☐ ACGIH TLV ☐ Cal OSHA
☐ MSHA ☐ Other (specify):

| Sample Identification* (Maxmium of 20 Characters) | Date Sampled | Collection Medium | Sample Volume Sample Time Sample Area* | Sample Units*: L, ml,min,in2,cm2,ft2 | Analysis Requested* | Method Reference^ | Hexavalent Chromium Process (e.g., welding plating, painting, etc.)* |
|---|---|---|---|---|---|---|---|
| Teardrop PSY699304-1 | 07/01/23 | 25mm QFF | 10223.56 | L | Diesel Particulate Matter | NIOSH 5040 | Ambient Conditions |
| Teardrop PSY699304-2 | 06/29/23 | 25mm QFF | 8052.369 | L | Diesel Particulate Matter | NIOSH 5040 | Ambient Conditions |
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^Galson Laboratories will subsititute our routine/preferred method if it does not match the method listed on the COC unless this box is checked: ☐ Use method(s) listed on COC

For metals analysis: if requesting an analyte with the option of a lower LOQ, please indicate if the lower LOQ is required (only available for certain analytes - see SAG):

For crystalline silica: form(s) of silica needed must be indicated (Quartz, Cristobalite, and/or Tridymite)*:

| Chain of Custody | Print Name/Signature | Date | Time | | Print Name/Signature | Date | Time |
|---|---|---|---|---|---|---|---|
| Relinquished by: | Jacob McFee | | | Received by: | Niyati Modi | 7/11/23 | 8:40am |
| Relinquished by: | | | | Received by: | Ana Ferreira | 7/12/23 | 855 |

Samples received after 3pm will be considered as next day's business.
* Required fields, failure to complete these fields may result in a delay in your samples being processed.



Page ___ of ___

SGS GALSON

Ryan Fletcher
WSP E&I Canada Limited
160 Traders Blvd. E
Unit 2-3
Mississauga, ON L4Z3K7
Canada

October 12, 2023

Account# 24170

Login# L607014

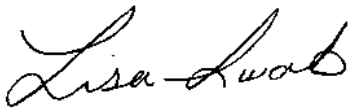
Dear Ryan Fletcher:

Enclosed are the analytical results for the samples received by our laboratory on October 06, 2023. All samples on the chain of custody were received in good condition unless otherwise noted. Any additional observations will be noted on the chain of custody.

Please contact client services at (888) 432-5227 if you would like any additional information regarding this report. Thank you for using SGS Galson.

Sincerely,

SGS Galson



Lisa Swab
Laboratory Director

Enclosure(s)

## Terms and Conditions & General Disclaimers

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- Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

## Analytical Disclaimers

- Unless otherwise noted within the report, all quality control results associated with the samples were within established control limits or did not impact reported results.

- Note: The findings recorded within this report were drawn from analysis of the sample(s) provided to the laboratory by the Client (or a third party acting at the Client's direction). The laboratory does not have control over the sampling process, including but not limited to the use of field equipment and collection media, as well as the sampling duration, collection volume or any other collection parameter used by the Client. The findings herein constitute no warranty of the sample's representativeness of any sampled environment, and strictly relate to the samples as they were presented to the laboratory. For recommended sampling collection parameters, please refer to the Sampling and Analysis Guide at www.sgsgalson.com.

- Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceding the final result column may have been rounded and therefore, if carried through the calculations, may not yield an identical final result to the one reported.

- The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).

- Unless otherwise noted within the report, results have not been blank corrected for any field blank or method blank data.

**Accreditations** SGS Galson holds a variety of accreditations and recognitions. Our quality management system conforms with the requirements of ISO/IEC 17025. Where applicable, samples may also be analyzed in accordance with the requirements of ELAP, NELAC, or LELAP under one of the state accrediting bodies listed below. Current Scopes of Accreditation can be viewed at http://www.sgsgalson.com in the accreditations section of the "About" page. To determine if the analyte tested falls under our scope of accreditation, please visit our website or call Client Services at (888) 432-5227.

| National/International | Accreditation/Recognition | Lab ID# | Program/Sector |
|---|---|---|---|
| AIHA-LAP, LLC - IHLAP, ELLAP, EMLAP | ISO/IEC 17025 and USEPA NLLAP | Lab ID 100324 | Industrial Hygiene, Environmental Lead, Environmental Microbiology |

| State | Accreditation/Recognition | Lab ID# | Program/Sector |
|---|---|---|---|
| New York (NYSDOH) | ELAP and NELAC (TNI) | Lab ID: 11626 | Air Analysis, Solid and Hazardous Waste |
| Louisiana (LDEQ) | LELAP | Lab ID: 04083 | Air Analysis, Solid Chemical Materials |

## Legend

| | | | |
|---|---|---|---|
| < - Less than | mg - Milligrams | MDL - Method Detection Limit | ppb - Parts per Billion |
| > - Greater than | ug - Micrograms | NA - Not Applicable | ppm - Parts per Million |
| l - Liters | m3 - Cubic Meters | NS - Not Specified | ppbv - ppb Volume |
| LOQ - Limit of Quantitation | kg - Kilograms | ND - Not Detected | ppmv - ppm Volume |
| ft2 - Square Feet | cm2 - Square Centimeters | in2 - Square Inches | ng - Nanograms |

SGS GALSON

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East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.sgsgalson.com

LABORATORY ANALYSIS REPORT

Client : Wood E&I Solutions Canada Limi
Site : GREAT BEAR PROJECT
Project No. : OMEMA2303.2023D.100
Date Sampled : 28-JUL-23 - 25-SEP-23
Date Received : 06-OCT-23

Account No.: 24170
Login No. : L607014
Date Analyzed : 10-OCT-23 - 11-OCT-23
Report ID : 1385324

**Diesel Particulate Matter as Carbon**

| Sample ID | Lab ID | Air Vol liter | Analyte | Total ug | Conc ug/m3 |
|---|---|---|---|---|---|
| PON710252-3 | L607014-1 | 8331 | Organic Carbon | 60 | 7.2 |
| | | | Elemental Carbon | <0.52 | <0.062 |
| | | | Total Carbon | 60 | 7.2 |
| PON710252-2 | L607014-2 | 7826 | Organic Carbon | 60 | 7.6 |
| | | | Elemental Carbon | <0.52 | <0.067 |
| | | | Total Carbon | 60 | 7.6 |
| PON710252-1 | L607014-3 | 16261 | Organic Carbon | 110 | 6.6 |
| | | | Elemental Carbon | 3.6 | 0.22 |
| | | | Total Carbon | 110 | 6.8 |
| PSY704938-1 | L607014-4 | 437.792 | Organic Carbon | 9.4 | 21 |
| | | | Elemental Carbon | <0.52 | <1.2 |
| | | | Total Carbon | 9.4 | 21 |

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of Quantitation: 1.8ug OC & EC; 3.6ug TC
Method Detection Limit: 0.52ug OC & EC; 1.0ug TC
Analytical Method : mod. NIOSH 5040; TOA
Collection Media : 25mm Quartz
Submitted by: PMH/JGC
Approved by : JGC
Supervisor: JGC
Date : 12-OCT-23

SGS GALSON

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.sgsgalson.com

LABORATORY ANALYSIS REPORT

Client : Wood E&I Solutions Canada Limi
Site : GREAT BEAR PROJECT
Project No. : OMEMA2303.2023D.100
Date Sampled : 28-JUL-23 - 25-SEP-23
Date Received : 06-OCT-23

Account No.: 24170
Login No. : L607014
Date Analyzed : 10-OCT-23 - 11-OCT-23
Report ID : 1385324

**Diesel Particulate Matter as Carbon**

| Sample ID | Lab ID | Air Vol liter | Analyte | Total ug | Conc ug/m3 |
|---|---|---|---|---|---|
| PSY704938-3 | L607014-5 | NA | Organic Carbon | 29 | NA |
| | | | Elemental Carbon | <0.52 | NA |
| | | | Total Carbon | 29 | NA |
| PSY704938-2 | L607014-6 | 2826.87 | Organic Carbon | 32 | 11 |
| | | | Elemental Carbon | [0.78] | [0.27] |
| | | | Total Carbon | 33 | 12 |
| PSY704938-4 | L607014-7 | 4872.826 | Organic Carbon | 20 | 4.1 |
| | | | Elemental Carbon | <0.52 | <0.11 |
| | | | Total Carbon | 20 | 4.1 |

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of Quantitation: 1.8ug OC & EC; 3.6ug TC
Method Detection Limit: 0.52ug OC & EC; 1.0ug TC
Analytical Method : mod. NIOSH 5040; TOA
Collection Media : 25mm Quartz
Submitted by: PMH/JGC
Approved by : JGC
Supervisor: JGC
Date : 12-OCT-23

GALSON

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East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.sgsgalson.com

Client Name : Wood E&I Solutions Canada Limited
Site : GREAT BEAR PROJECT
Project No. : OMEMA2303.2023D.100

Date Sampled : 28-JUL-23 - 25-SEP-23 Account No.: 24170
Date Received: 06-OCT-23 Login No. : L607014
Date Analyzed: 10-OCT-23 - 11-OCT-23

---

L607014 (Report ID: 1385324):
SOPs: ic-n5040(32)
Reported sample results in brackets are considered estimated, as they are below the level of quantitation.

L607014-3 (Report ID: 1385324):
Carbon results may not be representative of entire filter. Heavier dust deposit present in center of filter. A subsample from the darkest portion was analyzed. Results may be biased high.

L607014 (Report ID: 1385324):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated accuracy applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process. The accuracy is based solely on spike recovery data from internal quality control samples. Where N/A appears below, insufficient data is available to provide statistical accuracy and mean recovery values for the associated analyte.

| Parameter | Accuracy | Mean Recovery |
|---|---|---|
| Diesel Particulate Matter as Carbon | +/-10.2% | 104% |

1Z5X626A1542187486
Date: 10/06/23
Shipper: UPS
Initials: YBR
Prep: UNKNOWN

RUSH L6070114

CANADA

☐ New Client?

Report To*: Ryan Fletcher WSP E + I

Invoice To*: apinvoice.canada@woodplc.com

Client Account No.*: 24170

Phone No.*:

Cell No.:

Email Results to:

Email address: ryan.fletcher@wsp.com

Phone No.:

Email:

P.O. No.: OMEMA2303.2023D.100.5120.573000

Credit Card: ☐ Card on File ☐ Call for Credit Card Info.

☐ Samples submitted using the FreePumpLoan™ Program ☐ Samples submitted using the FreeSamplingBadges™ Program


Tel: (315) 432-5227
888-432-LABS (5227)
Fax: (315) 437-0571
www.galsonlabs.com


| Need Results By: | (surcharge) |
|---|---|
| ☑ Standard | 0% |
| ☐ 4 Business Days | 35% |
| ☐ 3 Business Days | 50% |
| ☐ 2 Business Days | 75% |
| ☐ Next Day by 6pm | 100% |
| ☐ Next Day by Noon | 150% |
| ☐ Same Day | 200% |

Site Name: Great Bear Project Project: OMEMA2303.2023D.100 Sampled by: EM/CB/AP/JM

Comments: # 08/08/2023 - unknown sample time

**Ambient outdoor conditions, left for a period of 24 or 48 hours at 4-6 ft off the ground.**

List description of industry or Process/interferences present in sampling area :

State samples were collected in (e.g., NY): Ontario

Please indicate which OEL this data will be used for : ☐ OSHA PEL ☐ ACGIH TLV ☐ Cal OSHA ☐ MSHA ☑ Other (specify): baseline

| Sample Identification* (Maxmium of 20 Characters) | Date Sampled | Collection Medium | Sample Volume Sample Time Sample Area* | Sample Units*: L, ml,min,in2,cm2,ft2 | Analysis Requested* | Method Reference^ | Hexavalent Chromium Process (e.g., welding plating, painting, etc.)* |
|---|---|---|---|---|---|---|---|
| PON710252-3 | 09/25/23 | 25mm QFF | 8331 | L | Diesel Particulate Matter | NIOSH 5040 | |
| PON710252-2 | 09/22/23 | 25mm QFF | 7826 | L | Diesel Particulate Matter | NIOSH 5040 | |
| PON710252-1 | 09/20/23 | 25mm QFF | 16261 | L | Diesel Particulate Matter | NIOSH 5040 | |
| PSY704938-1 | 07/28/23 | 25mm QFF | 437.792 | L | Diesel Particulate Matter | NIOSH 5040 | |
| PSY704938-3 | 08/08/23 | 25mm QFF | ? | L | Diesel Particulate Matter | NIOSH 5040 | |
| PSY704938-2 | 08/14/23 | 25mm QFF | 2826.65 | L | Diesel Particulate Matter | NIOSH 5040 | |
| PSY704938-4 | 08/22/23 | 25mm QFF | 4872.826 | L | Diesel Particulate Matter | NIOSH 5040 | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

^Galson Laboratories will subsititute our routine/preferred method if it does not match the method listed on the COC unless this box is checked: ☐ Use method(s) listed on COC

For metals analysis: if requesting an analyte with the option of a lower LOQ, please indicate if the lower LOQ is required (only available for certain analytes - see SAG) :

For crystalline silica: form(s) of silica needed must be indicated (Quartz, Cristobalite, and/or Tridymite )* :

| Chain of Custody | Print Name/Signature | Date | Time | | Print Name/Signature | Date | Time |
|---|---|---|---|---|---|---|---|
| Relinquished by : | | | | Received by : | Niyanté Moore N.M. | 10/5/23 | 8:12am |
| Relinquished by : | | | | Received by : | Yasmine Blevas Yasmine Blevas | 10/10/23 | 8:15 |

Samples received after 3pm will be considered as next day's business

* Required fields, failure to complete these fields may result in a delay in your samples being processed.

Page ___ of ___

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: na

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2022/12/06**
Report #: R7418329
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C2Y2573**
**Received: 2022/11/22, 09:22**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | 3 | 2022/12/01 | 2022/12/05 | BRL SOP-00121 | ASTM D1739 m |
| Soluble Part. in Dustfall (D1739mod) | 3 | 2022/12/01 | 2022/12/05 | BRL SOP-00121 | ASTM D1739 m |
| Volume of Sample Received | 3 | 2022/12/01 | 2022/12/01 | | |

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

Encryption Key

Marinela Sim
Project Manager
06 Dec 2022 14:42:11

Please direct all questions regarding this Certificate of Analysis to:
Marinela Sim, Project Manager
Email: Marinela.Sim@bureauveritas.com
Phone# (905)817-5828

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C2Y2573
Report Date: 2022/12/06

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | UJH821 | UJH822 | UJH823 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2022/10/01 | 2022/10/01 | 2022/10/01 | | |
| COC Number | | na | na | na | | |
| | UNITS | OCTOBER DUSTFALL TEARDROP | OCTOBER DUSTFALL TOTE ROAD | OCTOBER DUSTFALL BELL TOWERS | RDL | QC Batch |
| | | | | | | |
| Insoluble Particulate | mg | 24.2 | 8.4 | 9.8 | 1.0 | 8378210 |
| Soluble Particulate | mg | 6.2 | 4.2 | 4.6 | 1.8 | 8378213 |
| **Charge/Prep Analysis** | | | | | | |
| Volume of sample | ml | 450 | 560 | 560 | 1 | 8378209 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2Y2573
Report Date: 2022/12/06

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 8378210 | MOW | Spiked Blank | Insoluble Particulate | 2022/12/05 | | 98 | % | 85 - 115 |
| 8378210 | MOW | Method Blank | Insoluble Particulate | 2022/12/05 | <1.0 | | mg | |
| 8378213 | MOW | Spiked Blank | Soluble Particulate | 2022/12/05 | | 99 | % | 85 - 115 |
| 8378213 | MOW | Method Blank | Soluble Particulate | 2022/12/05 | <0.20 | | mg | |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2Y2573
Report Date: 2022/12/06

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/01/10**
Report #: R7460235
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C2AR405**
**Received: 2022/12/23, 09:48**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | 3 | 2023/01/04 | 2023/01/09 | BRL SOP-00121 | ASTM D1739 m |
| Soluble Part. in Dustfall (D1739mod) | 3 | 2023/01/04 | 2023/01/06 | BRL SOP-00121 | ASTM D1739 m |
| Volume of Sample Received | 3 | 2023/01/04 | 2023/01/04 | | |

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

Encryption Key

Marinela Sim
Project Manager
11 Jan 2023 18:19:15

Please direct all questions regarding this Certificate of Analysis to:
Marinela Sim, Project Manager
Email: Marinela.Sim@bureauveritas.com
Phone# (905)817-5828

==========

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Bureau Veritas Job #: C2AR405
Report Date: 2023/01/10

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | URD800 | | URD801 | | URD802 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2022/11/01 | | 2022/11/01 | | 2022/11/01 | | |
| COC Number | | n/a | | n/a | | n/a | | |
| | UNITS | NOVEMBER DUSTFALL TEARDROP | RDL | NOVEMBER DUSTFALL TOTE ROAD | RDL | NOVEMBER DUSTFALL BELL TOWERS | RDL | QC Batch |
| Insoluble Particulate | mg | 1.8 | 1.0 | 3.9 | 1.0 | 1.9 | 1.0 | 8431976 |
| Soluble Particulate | mg | <2.0 | 2.0 | 3.4 | 1.8 | <2.0 | 2.0 | 8431977 |
| **Charge/Prep Analysis** | | | | | | | | |
| Volume of sample | ml | 1 (1) | 1 | 390 | 1 | 33 | 1 | 8431971 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Sample container was received dry.
Added 200mL of RODI to reconstitute the residue.
Default volume of 1 is entered to facilitate calculation of the total dustfall.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2AR405
Report Date: 2023/01/10

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 8431976 | MOW | Spiked Blank | Insoluble Particulate | 2023/01/09 | | 99 | % | 85 - 115 |
| 8431976 | MOW | Method Blank | Insoluble Particulate | 2023/01/09 | <1.0 | | mg | |
| 8431977 | MOW | Spiked Blank | Soluble Particulate | 2023/01/06 | | 98 | % | 85 - 115 |
| 8431977 | MOW | Method Blank | Soluble Particulate | 2023/01/06 | <0.20 | | mg | |

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Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



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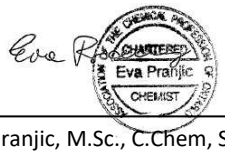
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2AR405
Report Date: 2023/01/10

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:




Ewa Pranjic, M.Sc., C.Chem, Scientific Specialist

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/02/24**
Report #: R7522270
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C338735**
**Received: 2023/02/09, 09:23**

Sample Matrix: Water
# Samples Received: 6

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | 6 | 2023/02/22 | 2023/02/24 | BRL SOP-00121 | ASTM D1739 m |
| Soluble Part. in Dustfall (D1739mod) | 6 | 2023/02/22 | 2023/02/24 | BRL SOP-00121 | ASTM D1739 m |
| Volume of Sample Received | 6 | 2023/02/22 | 2023/02/22 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

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160 Traders Blvd
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/02/24**
Report #: R7522270
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C338735**
**Received: 2023/02/09, 09:23**

Encryption Key

Marinela Sim
Project Manager
27 Feb 2023 12:18:16

Please direct all questions regarding this Certificate of Analysis to:
Marinela Sim, Project Manager
Email: Marinela.Sim@bureauveritas.com
Phone# (905)817-5828

==========

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Bureau Veritas Job #: C338735
Report Date: 2023/02/24

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | VAD936 | | VAD937 | | VAD938 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2022/12/01 | | 2022/12/01 | | 2022/12/01 | | |
| COC Number | | n/a | | n/a | | n/a | | |
| | UNITS | DECEMBER TOTE DUSTFALL | RDL | DECEMBER TEARDROP DUSTFALL | RDL | DECEMBER BELL TOWERS DUSTFALL | RDL | QC Batch |
| | | | | | | | | |
| Insoluble Particulate | mg | 1.0 | 1.0 | 1.5 | 1.0 | 1.1 | 1.0 | 8516523 |
| Soluble Particulate | mg | 5.2 | 1.3 | 2.4 | 1.6 | <2.0 | 2.0 | 8516526 |
| **Charge/Prep Analysis** | | | | | | | | |
| Volume of sample | ml | 87 | 1 | 200 | 1 | 47 | 1 | 8516512 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

| Bureau Veritas ID | | VAD939 | VAD940 | | VAD941 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/01/03 | 2023/01/03 | | 2023/01/03 | | |
| COC Number | | n/a | n/a | | n/a | | |
| | UNITS | JANUARY TOTE DUSTFALL | JANUARY TEARDROP DUSTFALL | RDL | JANUARY BELL TOWERS DUSTFALL | RDL | QC Batch |
| | | | | | | | |
| Insoluble Particulate | mg | 1.0 | <1.0 | 1.0 | <1.0 | 1.0 | 8516523 |
| Soluble Particulate | mg | <2.0 | <2.0 | 2.0 | 1.6 | 1.5 | 8516526 |
| **Charge/Prep Analysis** | | | | | | | |
| Volume of sample | ml | 46 | 27 | 1 | 160 | 1 | 8516512 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C338735
Report Date: 2023/02/24

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** VAD936 **Collected:** 2022/12/01
**Sample ID:** DECEMBER TOTE DUSTFALL **Shipped:**
**Matrix:** Water **Received:** 2023/02/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 8516523 | 2023/02/22 | 2023/02/24 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 8516526 | 2023/02/22 | 2023/02/24 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 8516512 | 2023/02/22 | 2023/02/22 | Mohammad Wahidul Alam |

**Bureau Veritas ID:** VAD937 **Collected:** 2022/12/01
**Sample ID:** DECEMBER TEARDROP DUSTFALL **Shipped:**
**Matrix:** Water **Received:** 2023/02/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 8516523 | 2023/02/22 | 2023/02/24 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 8516526 | 2023/02/22 | 2023/02/24 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 8516512 | 2023/02/22 | 2023/02/22 | Mohammad Wahidul Alam |

**Bureau Veritas ID:** VAD938 **Collected:** 2022/12/01
**Sample ID:** DECEMBER BELL TOWERS DUSTFALL **Shipped:**
**Matrix:** Water **Received:** 2023/02/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 8516523 | 2023/02/22 | 2023/02/24 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 8516526 | 2023/02/22 | 2023/02/24 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 8516512 | 2023/02/22 | 2023/02/22 | Mohammad Wahidul Alam |

**Bureau Veritas ID:** VAD939 **Collected:** 2023/01/03
**Sample ID:** JANUARY TOTE DUSTFALL **Shipped:**
**Matrix:** Water **Received:** 2023/02/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 8516523 | 2023/02/22 | 2023/02/24 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 8516526 | 2023/02/22 | 2023/02/24 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 8516512 | 2023/02/22 | 2023/02/22 | Mohammad Wahidul Alam |

**Bureau Veritas ID:** VAD940 **Collected:** 2023/01/03
**Sample ID:** JANUARY TEARDROP DUSTFALL **Shipped:**
**Matrix:** Water **Received:** 2023/02/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 8516523 | 2023/02/22 | 2023/02/24 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 8516526 | 2023/02/22 | 2023/02/24 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 8516512 | 2023/02/22 | 2023/02/22 | Mohammad Wahidul Alam |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C338735
Report Date: 2023/02/24

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** VAD941
**Sample ID:** JANUARY BELL TOWERS DUSTFALL
**Matrix:** Water

**Collected:** 2023/01/03
**Shipped:**
**Received:** 2023/02/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 8516523 | 2023/02/22 | 2023/02/24 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 8516526 | 2023/02/22 | 2023/02/24 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 8516512 | 2023/02/22 | 2023/02/22 | Mohammad Wahidul Alam |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT



| | | | SPIKED BLANK | | Method Blank | |
|---|---|---|---|---|---|---|
| **QC Batch** | **Parameter** | **Date** | **% Recovery** | **QC Limits** | **Value** | **UNITS** |
| 8516523 | Insoluble Particulate | 2023/02/24 | 98 | 85 - 115 | <1.0 | mg |
| 8516526 | Soluble Particulate | 2023/02/24 | 99 | 85 - 115 | <0.20 | mg |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C338735
Report Date: 2023/02/24

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

09-Feb-23 09:23

Gina Baybayan

C338735

CAM FCD-01302 /3

Rd Toll Free: 1-800-668-0639

ario ,L5N 2L8 Phone: (905) 817-5700

www.bvlabs.com Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR

Page ____ of ____

**CLIENT INFORMATION**

Company Name: Kinross / Wood

Project Manager: Jacob McFee

e-mail: Please see comments for email list

Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0

Phone: (807) 728-2185 Fax:

Sampled by: JM + CR

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening (Inner Diameter) | Dust Fall Opening (Outer Diameter) | Silica | PM 10 | Dustfall | TSP | Metals | Mercury | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| December Tote Dustfall | | | Dec 1 - Jan 3 | 3-Jan | 5.5" | 6.5" | | | X | | | | | | | | |
| December Teardrop Dustfall | | | Dec 1 - Jan 3 | 3-Jan | 5.5" | 6.5" | | | X | | | | | | | | |
| December Bell Towers Dustfall | | | Dec 1 - Jan 3 | 3-Jan | 5.5" | 6.5" | | | X | | | | | | | | |
| January Tote Dustfall | | | Jan 3 - Jan 31 | 31-Jan | 5.5" | 6.5" | | | X | | | | | | | | |
| January Teardrop Dustfall | | | Jan 3 - Jan 31 | 31-Jan | 5.5" | 6.5" | | | X | | | | | | | | |
| January Bell Towers Dustfall | | | Jan 3 - Jan 31 | 31-Jan | 5.5" | 6.5" | | | X | | | | | | | | |
| Hi Vol Quartz 220101762 Bell Towers TSP Dec 25 | | | 25-Dec | 3-Jan | | | | | | X | X | X | | | | | |
| Hi Vol Quartz 22101761 Bell Towers TSP Jan 6 | | | 6-Jan | 9-Jan | | | | | | X | X | X | | | | | |
| Hi Vol Quartz 22111431 Bell Towers TSP Jan 12 | | | 12-Jan | 13-Jan | | | | | | X | X | X | | | | | |
| Hi Vol Quartz 22111430 Bell Towers TSP Jan 18 | | | 18-Jan | 19-Jan | | | | | | X | X | X | | | | | |
| Hi Vol Quartz 22120838 Bell Towers TSP Jan 24 | | | 24-Jan | 24-Jan | | | | | | X | X | X | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***

*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com***

Client Signature:
Affiliation:
Date/Time:

Received by: [illegible]
Affiliation:
Date/Time: 2023/02/09 09:23

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at*

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/02/24**
Report #: R7522270
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C338735**
**Received: 2023/02/09, 09:23**

Sample Matrix: Water
# Samples Received: 6

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | 6 | 2023/02/22 | 2023/02/24 | BRL SOP-00121 | ASTM D1739 m |
| Soluble Part. in Dustfall (D1739mod) | 6 | 2023/02/22 | 2023/02/24 | BRL SOP-00121 | ASTM D1739 m |
| Volume of Sample Received | 6 | 2023/02/22 | 2023/02/22 | | |

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

Encryption Key

Marinela Sim
Project Manager
27 Feb 2023 12:18:20

Please direct all questions regarding this Certificate of Analysis to:
Marinela Sim, Project Manager
Email: Marinela.Sim@bureauveritas.com
Phone# (905)817-5828

==========

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Bureau Veritas Job #: C338735
Report Date: 2023/02/24

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | VAD936 | | VAD937 | | VAD938 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2022/12/01 | | 2022/12/01 | | 2022/12/01 | | |
| COC Number | | n/a | | n/a | | n/a | | |
| | UNITS | DECEMBER TOTE DUSTFALL | RDL | DECEMBER TEARDROP DUSTFALL | RDL | DECEMBER BELL TOWERS DUSTFALL | RDL | QC Batch |
| | | | | | | | | |
| Insoluble Particulate | mg | 1.0 | 1.0 | 1.5 | 1.0 | 1.1 | 1.0 | 8516523 |
| Soluble Particulate | mg | 5.2 | 1.3 | 2.4 | 1.6 | <2.0 | 2.0 | 8516526 |
| **Charge/Prep Analysis** | | | | | | | | |
| Volume of sample | ml | 87 | 1 | 200 | 1 | 47 | 1 | 8516512 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

| Bureau Veritas ID | | VAD939 | VAD940 | | VAD941 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/01/03 | 2023/01/03 | | 2023/01/03 | | |
| COC Number | | n/a | n/a | | n/a | | |
| | UNITS | JANUARY TOTE DUSTFALL | JANUARY TEARDROP DUSTFALL | RDL | JANUARY BELL TOWERS DUSTFALL | RDL | QC Batch |
| | | | | | | | |
| Insoluble Particulate | mg | 1.0 | <1.0 | 1.0 | <1.0 | 1.0 | 8516523 |
| Soluble Particulate | mg | <2.0 | <2.0 | 2.0 | 1.6 | 1.5 | 8516526 |
| **Charge/Prep Analysis** | | | | | | | |
| Volume of sample | ml | 46 | 27 | 1 | 160 | 1 | 8516512 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

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Bureau Veritas Job #: C338735
Report Date: 2023/02/24

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 8516523 | MOW | Spiked Blank | Insoluble Particulate | 2023/02/24 | | 98 | % | 85 - 115 |
| 8516523 | MOW | Method Blank | Insoluble Particulate | 2023/02/24 | <1.0 | | mg | |
| 8516526 | MOW | Spiked Blank | Soluble Particulate | 2023/02/24 | | 99 | % | 85 - 115 |
| 8516526 | MOW | Method Blank | Soluble Particulate | 2023/02/24 | <0.20 | | mg | |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



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Bureau Veritas Job #: C338735
Report Date: 2023/02/24

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2022/09/27**
Report #: R7317739
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C2Q3402**
**Received: 2022/09/13, 16:20**

Sample Matrix: Water
# Samples Received: 2

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | 2 | 2022/09/22 | 2022/09/26 | BRL SOP-00121 | ASTM D1739 m |
| Soluble Part. in Dustfall (D1739mod) | 2 | 2022/09/22 | 2022/09/26 | BRL SOP-00121 | ASTM D1739 m |
| Volume of Sample Received | 2 | 2022/09/22 | 2022/09/22 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

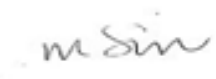
WSP E & I Canada Limited
160 Traders Blvd
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2022/09/27**
Report #: R7317739
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C2Q3402**
**Received: 2022/09/13, 16:20**

Encryption Key



Marinela Sim
Project Manager
28 Sep 2022 14:41:25

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Marinela Sim, Project Manager
Email: Marinela.Sim@bureauveritas.com
Phone# (905)817-5828
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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2Q3402
Report Date: 2022/09/27

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | TSL139 | TSP332 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2022/08/01 | | | |
| COC Number | | n/a | n/a | | |
| | UNITS | AUGUST DUSTFALL TEARDROP | JULY DUSTFALL TEARDROP | RDL | QC Batch |
| | | | | | |
| Insoluble Particulate | mg | 1.3 | 3.9 | 1.0 | 8239189 |
| Soluble Particulate | mg | 3.8 | 7.2 | 1.6 | 8239197 |
| **Charge/Prep Analysis** | | | | | |
| Volume of sample | ml | 180 | 220 | 1 | 8239181 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2Q3402
Report Date: 2022/09/27

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** TSL139
**Sample ID:** AUGUST DUSTFALL TEARDROP
**Matrix:** Water

**Collected:** 2022/08/01
**Shipped:**
**Received:** 2022/09/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 8239189 | 2022/09/22 | 2022/09/26 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 8239197 | 2022/09/22 | 2022/09/26 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 8239181 | 2022/09/22 | 2022/09/22 | Mohammad Wahidul Alam |

**Bureau Veritas ID:** TSP332
**Sample ID:** JULY DUSTFALL TEARDROP
**Matrix:** Water

**Collected:**
**Shipped:**
**Received:** 2022/09/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 8239189 | 2022/09/22 | 2022/09/26 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 8239197 | 2022/09/22 | 2022/09/26 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 8239181 | 2022/09/22 | 2022/09/22 | Mohammad Wahidul Alam |



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

| | |
|---|---|
| Package 1 | 21.0°C |

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2Q3402
Report Date: 2022/09/27

## QUALITY ASSURANCE REPORT

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

| | | | SPIKED BLANK | | Method Blank | |
|---|---|---|---|---|---|---|
| **QC Batch** | **Parameter** | **Date** | **% Recovery** | **QC Limits** | **Value** | **UNITS** |
| 8239189 | Insoluble Particulate | 2022/09/26 | 95 | 85 - 115 | <1.0 | mg |
| 8239197 | Soluble Particulate | 2022/09/26 | 99 | 85 - 115 | <0.20 | mg |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



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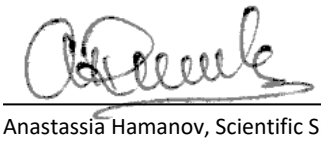
Bureau Veritas Job #: C2Q3402
Report Date: 2022/09/27

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

# AIR

CAM FCD-01302 /3

6740 Campobello Rd
Mississauga Ontario ,L5N 2L8
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

## CHAIN OF CUSTODY FORM - AIR

Page ____ of ____

**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM + CR

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening (Inner Diameter) | Dust Fall Opening (Outer Diameter) | Silica | PM 10 | Dustfall | $NO_2$ | $SO_2$ | VOC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| August Dustfall Teardrop | | | Aug 1 - Sep 1 | 1-Sep | 5.5" | 6.5" | | | X | | | |
| 22061605 Teardrop PM 10 July 18 - 23 | 24.05 | 16.7 | 23-Jul | 23-Jul | | | X | X | | | | |
| 22051202 Teardrop PM 10 July 28 | 24.05 | 16.7 | 28-Jul | 28-Jul | | | X | X | | | | |
| 22051203 Teardrop PM 10 August 3 | 0 | 10.4 | 3-Aug | 3-Aug | | | X | X | | | | |
| 22051204 Teardrop PM 10 August 9 | 0 | 10.4 | 9-Aug | 9-Aug | | | X | X | | | | |
| 22051205 Teardrop PM 10 August 18 | 24.05 | 16.7 | 18-Aug | 18-Aug | | | X | X | | | | |
| 22051206 Teardrop PM 10 August 21 | 24.05 | 16.7 | 21-Aug | 25-Aug | | | X | X | | | | |
| 22051211 Teardrop PM 10 August 27 | 24.05 | 16.7 | 27-Aug | 29-Aug | | | X | X | | | | |

13-Sep-22 16:20
Gina Baybayan
C2Q3402
Room Temp
JDK

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com***

Client Signature:
Affiliation:
Date/Time:

Received by:
Affiliation:
Date/Time: Sept 9/13 1620 11/4/14 Noise

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at*

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2022/09/27**
Report #: R7317739
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C2Q3402**
**Received: 2022/09/13, 16:20**

Sample Matrix: Water
# Samples Received: 2

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | 2 | 2022/09/22 | 2022/09/26 | BRL SOP-00121 | ASTM D1739 m |
| Soluble Part. in Dustfall (D1739mod) | 2 | 2022/09/22 | 2022/09/26 | BRL SOP-00121 | ASTM D1739 m |
| Volume of Sample Received | 2 | 2022/09/22 | 2022/09/22 | | |

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

Encryption Key

Marinela Sim
Project Manager
28 Sep 2022 14:41:28

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Marinela Sim, Project Manager
Email: Marinela.Sim@bureauveritas.com
Phone# (905)817-5828

==========

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2Q3402
Report Date: 2022/09/27

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | TSL139 | TSP332 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2022/08/01 | | | |
| COC Number | | n/a | n/a | | |
| | UNITS | AUGUST DUSTFALL TEARDROP | JULY DUSTFALL TEARDROP | RDL | QC Batch |
| | | | | | |
| Insoluble Particulate | mg | 1.3 | 3.9 | 1.0 | 8239189 |
| Soluble Particulate | mg | 3.8 | 7.2 | 1.6 | 8239197 |
| **Charge/Prep Analysis** | | | | | |
| Volume of sample | ml | 180 | 220 | 1 | 8239181 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2Q3402
Report Date: 2022/09/27

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 8239189 | MOW | Spiked Blank | Insoluble Particulate | 2022/09/26 | | 95 | % | 85 - 115 |
| 8239189 | MOW | Method Blank | Insoluble Particulate | 2022/09/26 | <1.0 | | mg | |
| 8239197 | MOW | Spiked Blank | Soluble Particulate | 2022/09/26 | | 99 | % | 85 - 115 |
| 8239197 | MOW | Method Blank | Soluble Particulate | 2022/09/26 | <0.20 | | mg | |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

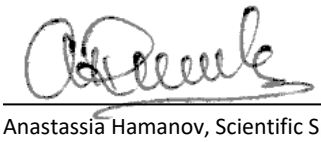
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2Q3402
Report Date: 2022/09/27

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: N/A

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2022/10/27**
Report #: R7360171
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C2T3222**
**Received: 2022/10/07, 09:32**

Sample Matrix: Water
# Samples Received: 1

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | 1 | 2022/10/24 | 2022/10/25 | BRL SOP-00121 | ASTM D1739 m |
| Soluble Part. in Dustfall (D1739mod) | 1 | 2022/10/24 | 2022/10/26 | BRL SOP-00121 | ASTM D1739 m |
| Volume of Sample Received | 1 | 2022/10/24 | 2022/10/24 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: N/A

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2022/10/27**
Report #: R7360171
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C2T3222**
**Received: 2022/10/07, 09:32**

Encryption Key

Marinela Sim
Project Manager
27 Oct 2022 14:09:36

Please direct all questions regarding this Certificate of Analysis to:
Marinela Sim, Project Manager
Email: Marinela.Sim@bureauveritas.com
Phone# (905)817-5828

==========

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2T3222
Report Date: 2022/10/27

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF WATER

| **Bureau Veritas ID** | | TYQ798 | | |
|---|---|---|---|---|
| **Sampling Date** | | 2022/09/01 | | |
| | **UNITS** | **TEARDRAP** | **RDL** | **QC Batch** |
| | | | | |
| Insoluble Particulate | mg | 5.0 | 1.0 | 8301381 |
| Soluble Particulate | mg | 5.2 | 1.7 | 8301385 |
| **Charge/Prep Analysis** | | | | |
| Volume of sample | ml | 310 | 1 | 8301380 |
| RDL = Reportable Detection Limit<br>QC Batch = Quality Control Batch | | | | |



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Bureau Veritas Job #: C2T3222
Report Date: 2022/10/27

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** TYQ798
**Sample ID:** TEARDRAP
**Matrix:** Water

**Collected:** 2022/09/01
**Shipped:**
**Received:** 2022/10/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 8301381 | 2022/10/24 | 2022/10/25 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 8301385 | 2022/10/24 | 2022/10/26 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 8301380 | 2022/10/24 | 2022/10/24 | Mohammad Wahidul Alam |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2T3222
Report Date: 2022/10/27

## QUALITY ASSURANCE REPORT

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

| | | | SPIKED BLANK | | Method Blank | |
|---|---|---|---|---|---|---|
| **QC Batch** | **Parameter** | **Date** | **% Recovery** | **QC Limits** | **Value** | **UNITS** |
| 8301381 | Insoluble Particulate | 2022/10/25 | 98 | 85 - 115 | <1.0 | mg |
| 8301385 | Soluble Particulate | 2022/10/26 | 98 | 85 - 115 | <0.20 | mg |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



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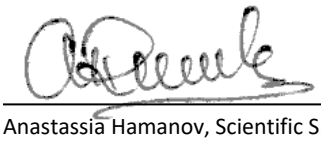
Bureau Veritas Job #: C2T3222
Report Date: 2022/10/27

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

JOB # ATD

CLIENT NAME: Kinross Gold



## Internal Sample Receipt Form

| | Sample Identification | Date Sampled | Time Sampled | Matrix | # of Bottles | Comments |
|---|---|---|---|---|---|---|
| 1 | Teardrop | 2022/09/30 | — | Dustfall | 1 | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |

07-Oct-22 09:32
Cristina (Maria) Bacchus
C2T3222
KTN AIR-RmTmp

| Received by (Signature & Print): | Date | Time | Cooler ID | Temperature | Custody seal Present | | Custody Seal Intact | | Ice Present | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | YES | NO | YES | NO | YES | NO |
| [illegible] | 2022/10/07 | 09:32 | 1 | | | NO | | NO | | NO |
| | | | | | | | | | | |

CAM FCD-01302 /3

6740 Campobello Rd
Mississauga Ontario ,L5N 2L8
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening Inner Diameter | Dust Fall Opening Outer Diameter | Silica | PM 10 | Dustfall | TSP | Mercury | Metals | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| September Dustfall - Teardrop | | | Sep 1 - Sep 30 | 30-Sep | | | | | X | | | | | | | | |
| M_22080201 Teardrop PM 10 Sept 2 | 24.05 (m³) | 16.7 (l/m) | 02-Sep | 13:30 | | | X | X | | | | | | | | | |
| M_22080203 Teardrop PM 10 Sept 8 | 24.05 (m³) | 16.7 (l/m) | 08-Sep | 9:00 | | | X | X | | | | | | | | | |
| M_22080204 Teardrop PM 10 Sept 14 | 24.05 (m³) | 16.7 (l/m) | 14-Sep | 14:00 | | | X | X | | | | | | | | | |
| M_22080205 Teardrop PM 10 Sept 20 | 24.05 (m³) | 16.7 (l/m) | 20-Sep | 10:30 | | | X | X | | | | | | | | | |
| M_22080202 Teardrop PM 10 Sept 26 | 24.05 (m³) | 16.7 (l/m) | 26-Sep | 11:00 | | | X | X | | | | | | | | | |
| Hi Vol Quartz 22081284 Bell Tower TSP Sep 20 | | | 20-Sep | 13:55 | | | | | | X | X | X | | | | | |
| Hi Vol Quartz 22081289 Bell Tower TSP Sep 26 | | | 26-Sep | 11:35 | | | | | | X | X | X | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com***

Client Signature:
Affiliation:
Date/Time:

Received by:
Affiliation:
Date/Time:

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions*

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: na

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/11/22**
Report #: R7923235
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3Y9854**
**Received: 2023/11/08, 09:34**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | 3 | 2023/11/20 | 2023/11/22 | BRL SOP-00121 | ASTM D1739 m |
| Soluble Part. in Dustfall (D1739mod) | 3 | 2023/11/20 | 2023/11/22 | BRL SOP-00121 | ASTM D1739 m |
| Volume of Sample Received | 3 | 2023/11/20 | 2023/11/20 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCCFP, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
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Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: na

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/11/22**
Report #: R7923235
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3Y9854**
**Received: 2023/11/08, 09:34**

Encryption Key

Cristina (Maria) Bacchus
Project Manager
22 Nov 2023 16:56:52

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3Y9854
Report Date: 2023/11/22

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: CB

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | XNQ690 | | XNQ691 | | XNQ692 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/11/01 | | 2023/11/01 | | 2023/11/01 | | |
| COC Number | | na | | na | | na | | |
| | UNITS | WQI641-01 TOTE DUSTFALL OCTOBER | RDL | WQI644-01 TEARDROP DUSTFALL | RDL | WQI643-01 BELL TOWERS DUSTFALL | RDL | QC Batch |
| | | | | | | | | |
| Insoluble Particulate | mg | 7.1 | 1.0 | 1.0 | 1.0 | 2.5 | 1.0 | 9059556 |
| Soluble Particulate | mg | 6.8 | 1.9 | 2.6 | 1.8 | 2.4 | 1.9 | 9059557 |
| **Charge/Prep Analysis** | | | | | | | | |
| Volume of sample | ml | 950 | 1 | 620 | 1 | 710 | 1 | 9059547 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3Y9854
Report Date: 2023/11/22

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: CB

## TEST SUMMARY

**Bureau Veritas ID:** XNQ690
**Sample ID:** WQI641-01 TOTE DUSTFALL OCTOBER
**Matrix:** Water

**Collected:** 2023/11/01
**Shipped:**
**Received:** 2023/11/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 9059556 | 2023/11/20 | 2023/11/22 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 9059557 | 2023/11/20 | 2023/11/22 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 9059547 | 2023/11/20 | 2023/11/20 | Mohammad Wahidul Alam |

**Bureau Veritas ID:** XNQ691
**Sample ID:** WQI644-01 TEARDROP DUSTFALL
**Matrix:** Water

**Collected:** 2023/11/01
**Shipped:**
**Received:** 2023/11/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 9059556 | 2023/11/20 | 2023/11/22 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 9059557 | 2023/11/20 | 2023/11/22 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 9059547 | 2023/11/20 | 2023/11/20 | Mohammad Wahidul Alam |

**Bureau Veritas ID:** XNQ692
**Sample ID:** WQI643-01 BELL TOWERS DUSTFALL
**Matrix:** Water

**Collected:** 2023/11/01
**Shipped:**
**Received:** 2023/11/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 9059556 | 2023/11/20 | 2023/11/22 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 9059557 | 2023/11/20 | 2023/11/22 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 9059547 | 2023/11/20 | 2023/11/20 | Mohammad Wahidul Alam |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3Y9854
Report Date: 2023/11/22

## QUALITY ASSURANCE REPORT

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: CB

| | | | SPIKED BLANK | | Method Blank | |
|---|---|---|---|---|---|---|
| **QC Batch** | **Parameter** | **Date** | **% Recovery** | **QC Limits** | **Value** | **UNITS** |
| 9059556 | Insoluble Particulate | 2023/11/22 | 100 | 85 - 115 | <1.0 | mg |
| 9059557 | Soluble Particulate | 2023/11/22 | 101 | 85 - 115 | <0.20 | mg |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



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Bureau Veritas Job #: C3Y9854
Report Date: 2023/11/22

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: CB

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

AIR

08-Nov-23 09:34

Jade Browne

C3Y9854

J_L AIR-RmTmp

CAM FCD-01302 /3

BUREAU VERITAS

www.bvlabs.com

)0-668-0639
5) 817-5700
Fax: (905) 817-5777

## CHAIN OF CUSTODY FORM - AIR

Page ____ of _

**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Ashley Moncrief
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: CB + EM

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening (Inner Diameter | Dust Fall Opening (Outer Diameter | Silica | PM 10 | PM 2.5 | Dustfall | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WQI641-01 Tote Dustfall October | n/a | n/a | October 1 - Nov 1 | | | | | | | X | | | | | | | |
| WQI644-01 Teardrop Dustfall | n/a | n/a | October 1 - Nov 1 | | | | | | | X | | | | | | | |
| WQI643-01 Bell Towers Dustfall | n/a | n/a | October 1 - Nov 1 | | | | | | | X | | | | | | | |
| Teardrop PM10 Sep 27 W23758089 | 24.05 | 16.7 | Sep 27 2023 | | | | | X | | | | | | | | | |
| Teardrop 47mm PVC Oct 3 23032012 | 24.05 | 16.7 | Oct 3 2023 | | | | | X | | | | | | | | | |
| Teardrop PM10 Oct 9 W23758086 | 24.05 | 16.7 | Oct 9 2023 | | | | | X | | | | | | | | | |
| Teardrop PM10 Oct 15 WC1563537 | 24.05 | 16.7 | Oct 15 2023 | | | | | X | | | | | | | | | |
| Teardrop PM10 Oct 21 WC1563543 | 24.05 | 16.7 | Oct 21 2023 | | | | | X | | | | | | | | | |
| Teardrop PM10 Oct 27 WC1563545 | 24.05 | 16.7 | Oct 27 2023 | | | | | X | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2003.2023D.100
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Jade Browne

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com; emily.meek@kinross.com; aaron.peloquin@kinross.com; curtis.bloemberg@kinross.com***

Client Signature: EMeek
Affiliation:
Date/Time: 3 Nov 23

Received by: [illegible] SAMIA BASHA
Affiliation:
Date/Time: 2023/11/08 09:34

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions*

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: na

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/11/22**
Report #: R7923235
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3Y9854**
**Received: 2023/11/08, 09:34**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | 3 | 2023/11/20 | 2023/11/22 | BRL SOP-00121 | ASTM D1739 m |
| Soluble Part. in Dustfall (D1739mod) | 3 | 2023/11/20 | 2023/11/22 | BRL SOP-00121 | ASTM D1739 m |
| Volume of Sample Received | 3 | 2023/11/20 | 2023/11/20 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCCFP, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: na

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/11/22**
Report #: R7923235
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3Y9854**
**Received: 2023/11/08, 09:34**

Encryption Key

Cristina (Maria) Bacchus
Project Manager
22 Nov 2023 16:57:14

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763
==========
This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3Y9854
Report Date: 2023/11/22

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: CB

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | XNQ690 | | XNQ691 | | XNQ692 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/11/01 | | 2023/11/01 | | 2023/11/01 | | |
| COC Number | | na | | na | | na | | |
| | UNITS | WQI641-01 TOTE DUSTFALL OCTOBER | RDL | WQI644-01 TEARDROP DUSTFALL | RDL | WQI643-01 BELL TOWERS DUSTFALL | RDL | QC Batch |
| | | | | | | | | |
| Insoluble Particulate | mg | 7.1 | 1.0 | 1.0 | 1.0 | 2.5 | 1.0 | 9059556 |
| Soluble Particulate | mg | 6.8 | 1.9 | 2.6 | 1.8 | 2.4 | 1.9 | 9059557 |
| **Charge/Prep Analysis** | | | | | | | | |
| Volume of sample | ml | 950 | 1 | 620 | 1 | 710 | 1 | 9059547 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Bureau Veritas Job #: C3Y9854
Report Date: 2023/11/22

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: CB

## GENERAL COMMENTS

**Results relate only to the items tested.**



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Bureau Veritas Job #: C3Y9854
Report Date: 2023/11/22

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: CB

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9059556 | MOW | Spiked Blank | Insoluble Particulate | 2023/11/22 | | 100 | % | 85 - 115 |
| 9059556 | MOW | Method Blank | Insoluble Particulate | 2023/11/22 | <1.0 | | mg | |
| 9059557 | MOW | Spiked Blank | Soluble Particulate | 2023/11/22 | | 101 | % | 85 - 115 |
| 9059557 | MOW | Method Blank | Soluble Particulate | 2023/11/22 | <0.20 | | mg | |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



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Bureau Veritas Job #: C3Y9854
Report Date: 2023/11/22

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: CB

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/12/20**
Report #: R7964134
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3AZ789**
**Received: 2023/12/07, 09:25**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | 3 | 2023/12/18 | 2023/12/20 | BRL SOP-00121 | ASTM D1739 m |
| Soluble Part. in Dustfall (D1739mod) | 3 | 2023/12/18 | 2023/12/20 | BRL SOP-00121 | ASTM D1739 m |
| Volume of Sample Received | 3 | 2023/12/18 | 2023/12/18 | | |

**Remarks:**

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All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/12/20**
Report #: R7964134
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3AZ789**
**Received: 2023/12/07, 09:25**

Encryption Key

Jade Browne
Project Manager Assistant - Air
20 Dec 2023 18:56:09

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Bureau Veritas Job #: C3AZ789
Report Date: 2023/12/20

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | XVI049 | | XVI050 | XVI051 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/12/01 09:00 | | 2023/12/01 11:30 | 2023/12/01 10:00 | | |
| COC Number | | n/a | | n/a | n/a | | |
| | UNITS | DUSTFALL BELL TOWERS NOVEMBER XII589-01 | RDL | DUSTFALL TOTE ROAD NOVEMBER XII591-01 | DUSTFALL TEARDROP NOVEMBER XII590-01 | RDL | QC Batch |
| | | | | | | | |
| Insoluble Particulate | mg | 2.0 | 1.0 | 2.0 | 1.3 | 1.0 | 9118778 |
| Soluble Particulate | mg | 5.4 | 1.9 | 4.8 | 3.4 | 1.8 | 9118777 |
| **Charge/Prep Analysis** | | | | | | | |
| Volume of sample | ml | 730 | 1 | 620 | 470 | 1 | 9118768 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3AZ789
Report Date: 2023/12/20

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** XVI049 **Collected:** 2023/12/01
**Sample ID:** DUSTFALL BELL TOWERS NOVEMBER XII589-01 **Shipped:**
**Matrix:** Water **Received:** 2023/12/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 9118778 | 2023/12/18 | 2023/12/20 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 9118777 | 2023/12/18 | 2023/12/20 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 9118768 | 2023/12/18 | 2023/12/18 | Mohammad Wahidul Alam |

**Bureau Veritas ID:** XVI050 **Collected:** 2023/12/01
**Sample ID:** DUSTFALL TOTE ROAD NOVEMBER XII591-01 **Shipped:**
**Matrix:** Water **Received:** 2023/12/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 9118778 | 2023/12/18 | 2023/12/20 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 9118777 | 2023/12/18 | 2023/12/20 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 9118768 | 2023/12/18 | 2023/12/18 | Mohammad Wahidul Alam |

**Bureau Veritas ID:** XVI051 **Collected:** 2023/12/01
**Sample ID:** DUSTFALL TEARDROP NOVEMBER XII590-01 **Shipped:**
**Matrix:** Water **Received:** 2023/12/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 9118778 | 2023/12/18 | 2023/12/20 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 9118777 | 2023/12/18 | 2023/12/20 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 9118768 | 2023/12/18 | 2023/12/18 | Mohammad Wahidul Alam |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT



| | | | SPIKED BLANK | | Method Blank | |
|---|---|---|---|---|---|---|
| **QC Batch** | **Parameter** | **Date** | **% Recovery** | **QC Limits** | **Value** | **UNITS** |
| 9118777 | Soluble Particulate | 2023/12/20 | 100 | 85 - 115 | <0.20 | mg |
| 9118778 | Insoluble Particulate | 2023/12/20 | 101 | 85 - 115 | <1.0 | mg |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



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Bureau Veritas Job #: C3AZ789
Report Date: 2023/12/20

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

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AIR

BUREAU VERITAS

6740 Campobello Rd
Mississauga Ontario ,L5N 2L8
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

CAM FCD-013(

## CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:

**SECTION**

Sampled by: JM + CB + EM + AP

**ANALYSIS REQUESTED**

07-Dec-23 09:25
Gina Baybayan
C3AZ789
URE AIR-RmTmp

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening (Inner Diameter) | Dust Fall Opening (Outer Diameter) | Silica | PM 10 | PM 2.5 | Dustfall | TSP | Metals | Mercury | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dustfall Bell Towers November XII589-01 | | | Nov 1 - Dec 1 | 9:00 | 5.5 | 6.5" | | | | X | | | | | | |
| Dustfall Tote Road November XII591-01 | | | Nov 1 - Dec 1 | 11:30 | 5.5" | 6.5" | | | | X | | | | | | |
| Dustfall Teardrop November XII590-01 | | | Nov 1 - Dec 1 | 10:00 | 5.5" | 6.5" | | | | X | | | | | | |
| Bell Towers Hi Vol Quartz 23091467 Nov 2 | | 43 | 2-Nov | | | | | | | | X | X | X | | | |
| Bell Towers Hi Vol Quartz 23091468 Nov 8 | | 43 | 8-Nov | | | | | | | | X | X | X | | | |
| Bell Towers Hi Vol Quartz 23091469 Nov 14 | | 44 | 14-Nov | | | | | | | | X | X | X | | | |
| Bell Towers Hi Vol Quartz 23091470 Nov 20 | | 43 | 20-Nov | | | | | | | | X | X | X | | | |
| Bell Towers Hi Vol Quartz 23041355 Nov 26 | | 44 | 26-Nov | | | | | | | | X | X | X | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2003.2023D.100
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Jade Browne

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.***
***ashley.moncrief@kinross.com; christopher.reid@kinross.***
***ryan.fletcher@woodplc.com; airgroup@woodplc.com;***
***emily.meek@kinross.com; aaron.peloquin@kinross.cor***
***curtis.bloemberg@kinross.com***

Client Signature: Jacob McFee
Affiliation: Kinross
Date/Time: Dec 1/2023

Received by: PAT SAMA BASRA
Affiliation:
Date/Time: 2023/12/07 09:25

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions*

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/12/20**
Report #: R7964134
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3AZ789**
**Received: 2023/12/07, 09:25**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | 3 | 2023/12/18 | 2023/12/20 | BRL SOP-00121 | ASTM D1739 m |
| Soluble Part. in Dustfall (D1739mod) | 3 | 2023/12/18 | 2023/12/20 | BRL SOP-00121 | ASTM D1739 m |
| Volume of Sample Received | 3 | 2023/12/18 | 2023/12/18 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCCFP, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/12/20**
Report #: R7964134
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3AZ789**
**Received: 2023/12/07, 09:25**

Encryption Key

Jade Browne
Project Manager Assistant - Air
20 Dec 2023 18:56:33

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Bureau Veritas Job #: C3AZ789
Report Date: 2023/12/20

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | XVI049 | | XVI050 | XVI051 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/12/01 09:00 | | 2023/12/01 11:30 | 2023/12/01 10:00 | | |
| COC Number | | n/a | | n/a | n/a | | |
| | UNITS | DUSTFALL BELL TOWERS NOVEMBER XII589-01 | RDL | DUSTFALL TOTE ROAD NOVEMBER XII591-01 | DUSTFALL TEARDROP NOVEMBER XII590-01 | RDL | QC Batch |
| | | | | | | | |
| Insoluble Particulate | mg | 2.0 | 1.0 | 2.0 | 1.3 | 1.0 | 9118778 |
| Soluble Particulate | mg | 5.4 | 1.9 | 4.8 | 3.4 | 1.8 | 9118777 |
| **Charge/Prep Analysis** | | | | | | | |
| Volume of sample | ml | 730 | 1 | 620 | 470 | 1 | 9118768 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

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Bureau Veritas Job #: C3AZ789
Report Date: 2023/12/20

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9118777 | MOW | Spiked Blank | Soluble Particulate | 2023/12/20 | | 100 | % | 85 - 115 |
| 9118777 | MOW | Method Blank | Soluble Particulate | 2023/12/20 | <0.20 | | mg | |
| 9118778 | MOW | Spiked Blank | Insoluble Particulate | 2023/12/20 | | 101 | % | 85 - 115 |
| 9118778 | MOW | Method Blank | Insoluble Particulate | 2023/12/20 | <1.0 | | mg | |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



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Bureau Veritas Job #: C3AZ789
Report Date: 2023/12/20

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: C026300307
Your Project #: OMEMA2003.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: N/A

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/01/26**
Report #: R8004660
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C413286**
**Received: 2024/01/15, 09:00**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | 3 | 2024/01/22 | 2024/01/24 | BRL SOP-00121 | ASTM D1739 m |
| Soluble Part. in Dustfall (D1739mod) | 3 | 2024/01/22 | 2024/01/24 | BRL SOP-00121 | ASTM D1739 m |
| Volume of Sample Received | 3 | 2024/01/22 | 2024/01/22 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

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Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: C026300307
Your Project #: OMEMA2003.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: N/A

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/01/26**
Report #: R8004660
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C413286**
**Received: 2024/01/15, 09:00**

Encryption Key

Cristina (Maria) Bacchus
Project Manager
26 Jan 2024 17:50:53

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Bureau Veritas Job #: C413286
Report Date: 2024/01/26

WSP E & I Canada Limited
Client Project #: OMEMA2003.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | YCT594 | YCT595 | YCT596 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2024/01/02 12:30 | 2024/01/02 13:30 | 2024/01/02 12:00 | | |
| | UNITS | DECEMBER TEARDROP DUSTFALL | DECEMBER TOTE DUSTFALL | DECEMBER BELL TOWERS DUSTFALL | RDL | QC Batch |
| Insoluble Particulate | mg | <1.0 | <1.0 | <1.0 | 1.0 | 9174823 |
| Soluble Particulate | mg | 7.0 | 4.8 | 2.6 | 2.0 | 9174830 |
| **Charge/Prep Analysis** | | | | | | |
| Volume of sample | ml | 23 | 1 (1) | 95 | 1 | 9174754 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Sample container was received dry.
Added 200mL of RODI to reconstitute the residue.
Default volume of 1 is entered to facilitate calculation of the total dustfall.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C413286
Report Date: 2024/01/26

WSP E & I Canada Limited
Client Project #: OMEMA2003.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** YCT594
**Sample ID:** DECEMBER TEARDROP DUSTFALL
**Matrix:** Water

**Collected:** 2024/01/02
**Shipped:**
**Received:** 2024/01/15

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 9174823 | 2024/01/22 | 2024/01/24 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 9174830 | 2024/01/22 | 2024/01/24 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 9174754 | 2024/01/22 | 2024/01/22 | Mohammad Wahidul Alam |

**Bureau Veritas ID:** YCT595
**Sample ID:** DECEMBER TOTE DUSTFALL
**Matrix:** Water

**Collected:** 2024/01/02
**Shipped:**
**Received:** 2024/01/15

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 9174823 | 2024/01/22 | 2024/01/24 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 9174830 | 2024/01/22 | 2024/01/24 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 9174754 | 2024/01/22 | 2024/01/22 | Mohammad Wahidul Alam |

**Bureau Veritas ID:** YCT596
**Sample ID:** DECEMBER BELL TOWERS DUSTFALL
**Matrix:** Water

**Collected:** 2024/01/02
**Shipped:**
**Received:** 2024/01/15

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 9174823 | 2024/01/22 | 2024/01/24 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 9174830 | 2024/01/22 | 2024/01/24 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 9174754 | 2024/01/22 | 2024/01/22 | Mohammad Wahidul Alam |



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C413286
Report Date: 2024/01/26

WSP E & I Canada Limited
Client Project #: OMEMA2003.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## GENERAL COMMENTS

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT



| | | | SPIKED BLANK | | Method Blank | |
|---|---|---|---|---|---|---|
| **QC Batch** | **Parameter** | **Date** | **% Recovery** | **QC Limits** | **Value** | **UNITS** |
| 9174823 | Insoluble Particulate | 2024/01/24 | 102 | 85 - 115 | <1.0 | mg |
| 9174830 | Soluble Particulate | 2024/01/24 | 99 | 85 - 115 | <0.20 | mg |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



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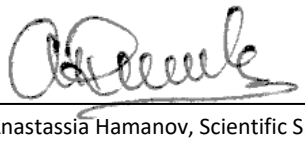
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C413286
Report Date: 2024/01/26

WSP E & I Canada Limited
Client Project #: OMEMA2003.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

AIR

BUREAU VERITAS

6740 Campobello Rd
Mississauga Ontario ,L5N 2L8
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

CAM FCD-013(

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / WSP E&I Canada
Project Manager: Ryan Fletcher
e-mail: See comments below for email list
Address: 19 Young Street,
Red Lake, ON, CA, P0V 2M0
Phone: 1 647-283-4638 Fax:

**SECTION**

Sampled by: JM + CB + EM + AP

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening (Inner Diameter) | Dust Fall Opening (Outer Diameter) | Silica | PM 10 | PM 2.5 | Dustfall | TSP | Metals | Mercury | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| December Teardrop Dustfall | | | Dec 1 - Jan 2 | 12:30 | 5.5" | 6.5" | | | | X | | | | | | |
| December Tote Dustfall | | | Dec 1 - Jan 2 | 13:30 | 5.5" | 6.5" | | | | X | | | | | | |
| December Bell Towers Dustfall | | | Dec 1 - Jan 2 | 12:00 | 5.5" | 6.5" | | | | X | | | | | | |
| | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | |

15-Jan-24 09:00
Ashton Gibson
C413286
SBS AIR-RmTmp

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2003.2023D.100
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Jade Browne

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.***
***ashley.moncrief@kinross.com; ryan.fletcher@wsp.com***
***airgroup@woodplc.com; emily.meek@kinross.com;***
***aaron.peloquin@kinross.com; curtis.bloemberg@kinross.***

Client Signature:
Affiliation: Kinross
Date/Time: Jan 10 2024 13:00

Received by: ANERI
Affiliation:
Date/Time: 2024/01/15 0900 2/3/2

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Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/04/25**
Report #: R7601381
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3A2778**
**Received: 2023/04/13, 09:06**

Sample Matrix: Water
# Samples Received: 6

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | 6 | 2023/04/19 | 2023/04/24 | BRL SOP-00121 | ASTM D1739 m |
| Soluble Part. in Dustfall (D1739mod) | 6 | 2023/04/19 | 2023/04/24 | BRL SOP-00121 | ASTM D1739 m |
| Volume of Sample Received | 6 | 2023/04/19 | 2023/04/19 | | |

**Remarks:**

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Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/04/25**
Report #: R7601381
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3A2778**
**Received: 2023/04/13, 09:06**

Encryption Key

Cristina (Maria) Bacchus
Project Manager
25 Apr 2023 14:51:15

Please direct all questions regarding this Certificate of Analysis to:
Marinela Sim, Project Manager
Email: Marinela.Sim@bureauveritas.com
Phone# (905)817-5828

==========

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Bureau Veritas Job #: C3A2778
Report Date: 2023/04/25

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | VNO567 | VNO568 | VNO569 | VNO570 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/02/28 | 2023/02/28 | 2023/02/28 | 2023/03/04 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | FEBRUARY TEARDROP DUSTFALL | FEBRUARY TOTE DUSTFALL | FEBRUARY BELL TOWERS DUSTFALL | MARCH TEARDROP DUSTFALL | RDL | QC Batch |
| Insoluble Particulate | mg | <1.0 | 1.1 | <1.0 | 1.4 | 1.0 | 8616574 |
| Soluble Particulate | mg | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 8616579 |
| **Charge/Prep Analysis** | | | | | | | |
| Volume of sample | ml | 1 (1) | 15 | 7 | 27 | 1 | 8616566 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Sample container was received dry.
Added 200mL of RODI to reconstitute the residue.
Default volume of 1 is entered to facilitate calculation of the total dustfall.

| Bureau Veritas ID | | VNO571 | | VNO572 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2023/03/04 | | 2023/03/04 | | |
| COC Number | | n/a | | n/a | | |
| | UNITS | MARCH TOTE DUSTFALL | RDL | MARCH BELL TOWERS DUSTFALL | RDL | QC Batch |
| Insoluble Particulate | mg | 4.1 | 1.0 | <1.0 | 1.0 | 8616574 |
| Soluble Particulate | mg | <1.3 | 1.3 | <2.0 | 2.0 | 8616579 |
| **Charge/Prep Analysis** | | | | | | |
| Volume of sample | ml | 180 | 1 | 48 | 1 | 8616566 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3A2778
Report Date: 2023/04/25

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** VNO567 **Collected:** 2023/02/28
**Sample ID:** FEBRUARY TEARDROP DUSTFALL **Shipped:**
**Matrix:** Water **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 8616574 | 2023/04/19 | 2023/04/24 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 8616579 | 2023/04/19 | 2023/04/24 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 8616566 | 2023/04/19 | 2023/04/19 | Mohammad Wahidul Alam |

**Bureau Veritas ID:** VNO568 **Collected:** 2023/02/28
**Sample ID:** FEBRUARY TOTE DUSTFALL **Shipped:**
**Matrix:** Water **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 8616574 | 2023/04/19 | 2023/04/24 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 8616579 | 2023/04/19 | 2023/04/24 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 8616566 | 2023/04/19 | 2023/04/19 | Mohammad Wahidul Alam |

**Bureau Veritas ID:** VNO569 **Collected:** 2023/02/28
**Sample ID:** FEBRUARY BELL TOWERS DUSTFALL **Shipped:**
**Matrix:** Water **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 8616574 | 2023/04/19 | 2023/04/24 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 8616579 | 2023/04/19 | 2023/04/24 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 8616566 | 2023/04/19 | 2023/04/19 | Mohammad Wahidul Alam |

**Bureau Veritas ID:** VNO570 **Collected:** 2023/03/04
**Sample ID:** MARCH TEARDROP DUSTFALL **Shipped:**
**Matrix:** Water **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 8616574 | 2023/04/19 | 2023/04/24 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 8616579 | 2023/04/19 | 2023/04/24 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 8616566 | 2023/04/19 | 2023/04/19 | Mohammad Wahidul Alam |

**Bureau Veritas ID:** VNO571 **Collected:** 2023/03/04
**Sample ID:** MARCH TOTE DUSTFALL **Shipped:**
**Matrix:** Water **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 8616574 | 2023/04/19 | 2023/04/24 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 8616579 | 2023/04/19 | 2023/04/24 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 8616566 | 2023/04/19 | 2023/04/19 | Mohammad Wahidul Alam |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3A2778
Report Date: 2023/04/25

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** VNO572
**Sample ID:** MARCH BELL TOWERS DUSTFALL
**Matrix:** Water

**Collected:** 2023/03/04
**Shipped:**
**Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 8616574 | 2023/04/19 | 2023/04/24 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 8616579 | 2023/04/19 | 2023/04/24 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 8616566 | 2023/04/19 | 2023/04/19 | Mohammad Wahidul Alam |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3A2778
Report Date: 2023/04/25

## QUALITY ASSURANCE REPORT

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

| | | | SPIKED BLANK | | Method Blank | |
|---|---|---|---|---|---|---|
| **QC Batch** | **Parameter** | **Date** | **% Recovery** | **QC Limits** | **Value** | **UNITS** |
| 8616574 | Insoluble Particulate | 2023/04/24 | 96 | 85 - 115 | <1.0 | mg |
| 8616579 | Soluble Particulate | 2023/04/24 | 99 | 85 - 115 | <0.20 | mg |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



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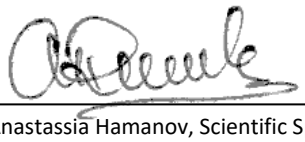
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3A2778
Report Date: 2023/04/25

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

13-Apr-23 09:06

Gina Baybayan

C3A2778

CAM FCD-01302 /3

mpobello Rd
uga Ontario ,L5N 2L8
bs.com

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR

Page ____ of ____

: Kinross / Wood

Project Manager: Jacob McFee

e-mail: Please see comments for email list

Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0

**SECTION**

Phone: (807) 728-2185 Fax:

Sampled by: JM + CR

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening (Inner Diameter) | Dust Fall Opening (Outer Diameter) | Silica | PM 10 | Dustfall | TSP | Metals | Mercury | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| February Teardrop Dustfall | | | 28-Feb | | 5.5" | 6.5" | | | X | | | | | | | | |
| February Tote Dustfall | | | 28-Feb | | 5.5" | 6.5" | | | X | | | | | | | | |
| February Bell Towers Dustfall | | | 28-Feb | | 5.5" | 6.5" | | | X | | | | | | | | |
| March Teardrop Dustfall | | | 4-Mar | | 5.5" | 6.5" | | | X | | | | | | | | |
| March Tote Dustfall | | | 4-Mar | | 5.5" | 6.5" | | | X | | | | | | | | |
| March Bell Towers Dustfall | | | 4-Mar | | 5.5" | 6.5" | | | X | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
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**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***

*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com***

Client Signature:
Affiliation:
Date/Time:

Received by:
Affiliation:
Date/Time: 2023/04/13 09:06

21/21/21

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Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/06/16**
Report #: R7675599
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3G3818**
**Received: 2023/06/07, 09:12**

Sample Matrix: Water
# Samples Received: 6

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | 6 | 2023/06/13 | 2023/06/15 | BRL SOP-00121 | ASTM D1739 m |
| Soluble Part. in Dustfall (D1739mod) | 6 | 2023/06/13 | 2023/06/15 | BRL SOP-00121 | ASTM D1739 m |
| Volume of Sample Received | 6 | 2023/06/13 | 2023/06/13 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCCFP, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
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Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/06/16**
Report #: R7675599
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3G3818**
**Received: 2023/06/07, 09:12**

Encryption Key

Cristina (Maria) Bacchus
Project Manager
16 Jun 2023 16:47:42

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3G3818
Report Date: 2023/06/16

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | WAK196 | | WAK197 | | WAK198 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | | | | | | | |
| COC Number | | n/a | | n/a | | n/a | | |
| | UNITS | APRIL TOTE DUSTFALL | RDL | APRIL TERADROP DUSTFALL | RDL | APRIL BELL TOWERS DUSTFALL | RDL | QC Batch |
| | | | | | | | | |
| Insoluble Particulate | mg | 5.3 | 1.0 | 8.0 | 1.0 | 4.2 | 1.0 | 8722621 |
| Soluble Particulate | mg | 3.4 | 2.0 | 5.8 | 1.6 | 4.6 | 1.5 | 8722625 |
| **Charge/Prep Analysis** | | | | | | | | |
| Volume of sample | ml | 47 | 1 | 410 | 1 | 320 | 1 | 8722618 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

| Bureau Veritas ID | | WAK199 | | WAK200 | | WAK201 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | | | | | | | |
| COC Number | | n/a | | n/a | | n/a | | |
| | UNITS | MAY TEARDROP DUSTFALL | RDL | MAY BELL TOWERS DUSTFALL | RDL | MAY TOTE DUSTFALL | RDL | QC Batch |
| | | | | | | | | |
| Insoluble Particulate | mg | 60.5 (1) | 2.0 | 6.7 | 1.0 | 17.4 (1) | 2.0 | 8722621 |
| Soluble Particulate | mg | 8.8 | 1.3 | 6.8 | 1.4 | 16.2 | 1.1 | 8722625 |
| **Charge/Prep Analysis** | | | | | | | | |
| Volume of sample | ml | 190 | 1 | 120 | 1 | 120 | 1 | 8722618 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Multiple Filters are used. Results and DLs are adjusted accordingly.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3G3818
Report Date: 2023/06/16

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** WAK196 **Collected:**
**Sample ID:** APRIL TOTE DUSTFALL **Shipped:**
**Matrix:** Water **Received:** 2023/06/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 8722621 | 2023/06/13 | 2023/06/15 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 8722625 | 2023/06/13 | 2023/06/15 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 8722618 | 2023/06/13 | 2023/06/13 | Mohammad Wahidul Alam |

**Bureau Veritas ID:** WAK197 **Collected:**
**Sample ID:** APRIL TERADROP DUSTFALL **Shipped:**
**Matrix:** Water **Received:** 2023/06/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 8722621 | 2023/06/13 | 2023/06/15 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 8722625 | 2023/06/13 | 2023/06/15 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 8722618 | 2023/06/13 | 2023/06/13 | Mohammad Wahidul Alam |

**Bureau Veritas ID:** WAK198 **Collected:**
**Sample ID:** APRIL BELL TOWERS DUSTFALL **Shipped:**
**Matrix:** Water **Received:** 2023/06/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 8722621 | 2023/06/13 | 2023/06/15 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 8722625 | 2023/06/13 | 2023/06/15 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 8722618 | 2023/06/13 | 2023/06/13 | Mohammad Wahidul Alam |

**Bureau Veritas ID:** WAK199 **Collected:**
**Sample ID:** MAY TEARDROP DUSTFALL **Shipped:**
**Matrix:** Water **Received:** 2023/06/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 8722621 | 2023/06/13 | 2023/06/15 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 8722625 | 2023/06/13 | 2023/06/15 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 8722618 | 2023/06/13 | 2023/06/13 | Mohammad Wahidul Alam |

**Bureau Veritas ID:** WAK200 **Collected:**
**Sample ID:** MAY BELL TOWERS DUSTFALL **Shipped:**
**Matrix:** Water **Received:** 2023/06/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 8722621 | 2023/06/13 | 2023/06/15 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 8722625 | 2023/06/13 | 2023/06/15 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 8722618 | 2023/06/13 | 2023/06/13 | Mohammad Wahidul Alam |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3G3818
Report Date: 2023/06/16

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** WAK201
**Sample ID:** MAY TOTE DUSTFALL
**Matrix:** Water

**Collected:**
**Shipped:**
**Received:** 2023/06/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 8722621 | 2023/06/13 | 2023/06/15 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 8722625 | 2023/06/13 | 2023/06/15 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 8722618 | 2023/06/13 | 2023/06/13 | Mohammad Wahidul Alam |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3G3818
Report Date: 2023/06/16

## QUALITY ASSURANCE REPORT

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

| | | | SPIKED BLANK | | Method Blank | |
|---|---|---|---|---|---|---|
| **QC Batch** | **Parameter** | **Date** | **% Recovery** | **QC Limits** | **Value** | **UNITS** |
| 8722621 | Insoluble Particulate | 2023/06/15 | 97 | 85 - 115 | <1.0 | mg |
| 8722625 | Soluble Particulate | 2023/06/15 | 101 | 85 - 115 | <0.20 | mg |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



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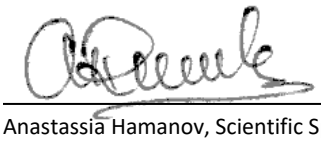
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3G3818
Report Date: 2023/06/16

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

CAM FCD-01302 /3

BUREAU VERITAS

6740 Campobello Rd
Mississauga Ontario ,L5N 2L8
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR

Page ____ of ____

**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM + CR

**SECTION**

**ANALYSIS REQUESTED**

07-Jun-23 09:12
Gina Baybayan
C3G3818

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Run Time | Dust Fall Opening (Inner Diameter) | Dust Fall Opening (Outer Diameter) | TSP | PM 10 | Dustfall | PM 2.5 | Mercury | Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 22002484 Teardrop PM 10 May 8 | 24.05 | 16.7 | 8-May | | | | | x | | | | |
| 22002485 Teardrop PM 10 May 5 | 24.05 | 16.7 | 5-May | | | | | x | | | | |
| 22002496 Tote PM 2.5 May 5 | 24.05 | 16.7 | 5-May | | | | | | | x | | |
| 1415842 Teardrop PM 10 May 14 | 24.05 | 16.7 | 14-May | | | | | x | | | | |
| 1415844 Teardrop PM 10 May 11 | 24.05 | 16.7 | 11-May | | | | | x | | | | |
| 23021325 Bell Towers May 29 TSP | | | 29-May | 23:47 | | | x | | | | x | x |
| 23021326 Bell Towers May 23 TSP | | | 23-May | 22:82 | | | x | | | | x | x |
| 23021322 Bell Towers May 8 TSP | | | 8-May | 23:89 | | | x | | | | x | x |
| 23021323 Bell Towers May 14 TSP | | | 14-May | 23:10 | | | x | | | | x | x |
| 23021324 Bell Towers May 17 TSP | | | 17-May | 23:15 | | | x | | | | x | x |
| April Tote Dustfall | | | April | | | | | | x | | | |
| April Teardrop Dustfall | | | April | | | | | | x | | | |
| April Bell Towers Dustfall | | | April | | | | | | x | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Jade Browne

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; emily.meek@kinross.com; curtis.bloemberg@kinross.com; aaron.peloquin@kinross.com; airgroup@woodplc.com***

Client Signature:
Affiliation:
Date/Time:

Received by: SATTAR BASTOLA
Affiliation:
Date/Time: 2023/06/07 09:12

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CAM FCD-01302 /3

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Mississauga Ontario ,L5N 2L8
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM + CR

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening (Inner Diameter) | Dust Fall Opening (Outer Diameter) | Silica | PM 10 | Dustfall | PM 2.5 | $SO_2$ | VOC | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| May Tote Dustfall | | | May | | | | | | X | | | | | | | | |
| May Teardrop Dustfall | | | May | | | | | | X | | | | | | | | |
| May Bell Towers Dustfall | | | May | | | | | | X | | | | | | | | |
| 22000322 Tote PM 2.5 May 29 | 24.01 | 16.7 | 29-May | | | | | | | x | | | | | | | |
| 22000321 Teardrop PM10 May 29 | 24.03 | 16.7 | 29-May | | | | | x | | | | | | | | | |
| 22000319 Teardrop PM 10 May 23 | 24.05 | 16.7 | 23-May | | | | | x | | | | | | | | | |
| 22000320 Tote PM 2.5 May 23 | 24.02 | 16.7 | 23-May | | | | | | | x | | | | | | | |
| 22000313 Tote PM 2.5 May 26 | 24.01 | 16.7 | 26-May | | | | | | | x | | | | | | | |
| 22000314 Teardrop PM 10 May 26 | 24.05 | 16.7 | 26-May | | | | | x | | | | | | | | | |
| 1415848 Teardrop PM 10 May 17 | 24.05 | 16.7 | 17-May | | | | | x | | | | | | | | | |
| 1415846 Tote PM 2.5 May 17 | 24.02 | 16.7 | 17-May | | | | | | | x | | | | | | | |
| 1415837 Teardrop PM 10 May 20 | 24.05 | 16.7 | 20-May | | | | | x | | | | | | | | | |
| 1415847 Tote PM 2.5 May 20 | 24.02 | 16.7 | 20-May | | | | | | | x | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Jade Browne

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; emily.meek@kinross.com; curtis.bloemberg@kinross.com; aaron.peloquin@kinross.com; airgroup@woodplc.com***

Client Signature:
Affiliation:
Date/Time:

Received by: BSP SAMIA BASRA
Affiliation:
Date/Time: 2023/06/08 09:12

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Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/06/16**
Report #: R7675599
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3G3818**
**Received: 2023/06/07, 09:12**

Sample Matrix: Water
# Samples Received: 6

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | 6 | 2023/06/13 | 2023/06/15 | BRL SOP-00121 | ASTM D1739 m |
| Soluble Part. in Dustfall (D1739mod) | 6 | 2023/06/13 | 2023/06/15 | BRL SOP-00121 | ASTM D1739 m |
| Volume of Sample Received | 6 | 2023/06/13 | 2023/06/13 | | |

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

Encryption Key

Cristina (Maria) Bacchus
Project Manager
16 Jun 2023 16:47:47

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Bureau Veritas Job #: C3G3818
Report Date: 2023/06/16

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | WAK196 | | WAK197 | | WAK198 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | | | | | | | |
| COC Number | | n/a | | n/a | | n/a | | |
| | UNITS | APRIL TOTE DUSTFALL | RDL | APRIL TERADROP DUSTFALL | RDL | APRIL BELL TOWERS DUSTFALL | RDL | QC Batch |
| | | | | | | | | |
| Insoluble Particulate | mg | 5.3 | 1.0 | 8.0 | 1.0 | 4.2 | 1.0 | 8722621 |
| Soluble Particulate | mg | 3.4 | 2.0 | 5.8 | 1.6 | 4.6 | 1.5 | 8722625 |
| **Charge/Prep Analysis** | | | | | | | | |
| Volume of sample | ml | 47 | 1 | 410 | 1 | 320 | 1 | 8722618 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

| Bureau Veritas ID | | WAK199 | | WAK200 | | WAK201 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | | | | | | | |
| COC Number | | n/a | | n/a | | n/a | | |
| | UNITS | MAY TEARDROP DUSTFALL | RDL | MAY BELL TOWERS DUSTFALL | RDL | MAY TOTE DUSTFALL | RDL | QC Batch |
| | | | | | | | | |
| Insoluble Particulate | mg | 60.5 (1) | 2.0 | 6.7 | 1.0 | 17.4 (1) | 2.0 | 8722621 |
| Soluble Particulate | mg | 8.8 | 1.3 | 6.8 | 1.4 | 16.2 | 1.1 | 8722625 |
| **Charge/Prep Analysis** | | | | | | | | |
| Volume of sample | ml | 190 | 1 | 120 | 1 | 120 | 1 | 8722618 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Multiple Filters are used. Results and DLs are adjusted accordingly.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3G3818
Report Date: 2023/06/16

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## GENERAL COMMENTS

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3G3818
Report Date: 2023/06/16

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 8722621 | MOW | Spiked Blank | Insoluble Particulate | 2023/06/15 | | 97 | % | 85 - 115 |
| 8722621 | MOW | Method Blank | Insoluble Particulate | 2023/06/15 | <1.0 | | mg | |
| 8722625 | MOW | Spiked Blank | Soluble Particulate | 2023/06/15 | | 101 | % | 85 - 115 |
| 8722625 | MOW | Method Blank | Soluble Particulate | 2023/06/15 | <0.20 | | mg | |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



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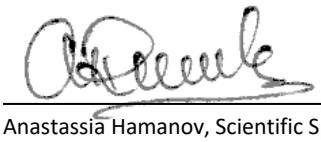
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3G3818
Report Date: 2023/06/16

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/07/21**
Report #: R7729014
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3K2176**
**Received: 2023/07/10, 09:00**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | 3 | 2023/07/19 | 2023/07/21 | BRL SOP-00121 | ASTM D1739 m |
| Soluble Part. in Dustfall (D1739mod) | 3 | 2023/07/19 | 2023/07/21 | BRL SOP-00121 | ASTM D1739 m |
| Volume of Sample Received | 3 | 2023/07/19 | 2023/07/19 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCCFP, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
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Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT

**Attention: Kinross Project**

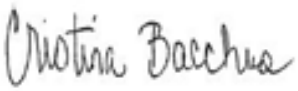
WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/07/21**
Report #: R7729014
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3K2176**
**Received: 2023/07/10, 09:00**

Encryption Key



Cristina (Maria) Bacchus
Project Manager
21 Jul 2023 17:58:34

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763
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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3K2176
Report Date: 2023/07/21

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | WIJ019 | WIJ020 | | WIJ021 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/06/01 | 2023/06/01 | | 2023/06/01 | | |
| | UNITS | JUNE BELL TOWERS DUSTFALL | JUNE TOTE ROAD DUSTFALL | RDL | JUNE TEARDROP DUSTFALL | RDL | QC Batch |
| | | | | | | | |
| Insoluble Particulate | mg | 10.3 | 11.1 | 1.0 | 23.4 (1) | 4.0 | 8798788 |
| Soluble Particulate | mg | 8.8 | 11.4 | 1.9 | 15.6 | 1.8 | 8798806 |
| **Charge/Prep Analysis** | | | | | | | |
| Volume of sample | ml | 780 | 650 | 1 | 530 | 1 | 8798785 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Multiple Filters are used. Results and DLs are adjusted accordingly.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3K2176
Report Date: 2023/07/21

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** WIJ019 **Collected:** 2023/06/01
**Sample ID:** JUNE BELL TOWERS DUSTFALL **Shipped:**
**Matrix:** Water **Received:** 2023/07/10

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 8798788 | 2023/07/19 | 2023/07/21 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 8798806 | 2023/07/19 | 2023/07/21 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 8798785 | 2023/07/19 | 2023/07/19 | Mohammad Wahidul Alam |

**Bureau Veritas ID:** WIJ020 **Collected:** 2023/06/01
**Sample ID:** JUNE TOTE ROAD DUSTFALL **Shipped:**
**Matrix:** Water **Received:** 2023/07/10

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 8798788 | 2023/07/19 | 2023/07/21 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 8798806 | 2023/07/19 | 2023/07/21 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 8798785 | 2023/07/19 | 2023/07/19 | Mohammad Wahidul Alam |

**Bureau Veritas ID:** WIJ021 **Collected:** 2023/06/01
**Sample ID:** JUNE TEARDROP DUSTFALL **Shipped:**
**Matrix:** Water **Received:** 2023/07/10

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 8798788 | 2023/07/19 | 2023/07/21 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 8798806 | 2023/07/19 | 2023/07/21 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 8798785 | 2023/07/19 | 2023/07/19 | Mohammad Wahidul Alam |



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3K2176
Report Date: 2023/07/21

## QUALITY ASSURANCE REPORT

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

| | | | SPIKED BLANK | | Method Blank | |
|---|---|---|---|---|---|---|
| **QC Batch** | **Parameter** | **Date** | **% Recovery** | **QC Limits** | **Value** | **UNITS** |
| 8798788 | Insoluble Particulate | 2023/07/21 | 95 | 85 - 115 | <1.0 | mg |
| 8798806 | Soluble Particulate | 2023/07/21 | 101 | 85 - 115 | <0.20 | mg |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



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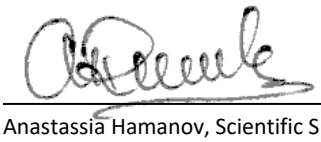
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3K2176
Report Date: 2023/07/21

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

10-Jul-23 09:00

Gina Baybayan

C3K2176

CAM FCD-01302 /3

AJH AIR-RmTmp

obello Rd
Mississauga Ontario ,L5N 2L8
www.bvlabs.com
Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM + CB + EM

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening (Inner Diameter | Dust Fall Opening (Outer Diameter | Silica | PM 10 | PM 2.5 | Dustfall | TSP | Metals | Mercury | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| June Bell Towers Dustfall | | | June 1 - July 1 | | 5.5" | 6.5" | | | | X | | | | | | | |
| June Tote Road Dustfall | | | June 1 - July 1 | | 5.5" | 6.5" | | | | X | | | | | | | |
| June Teardrop Dustfall | | | June 1 - July 1 | | 5.5" | 6.5" | | | | X | | | | | | | |
| June 4 Bell Towers TSP 23031534 | | 40 CFM | | 0:00 | | | | | | | X | X | X | | | | |
| June 10 Bell Towers TSP 23031535 | | 40 CFM | | 0:00 | | | | | | | X | X | X | | | | |
| June 16 Bell Towers TSP 23031536 | | 40 CFM | | 0:00 | | | | | | | X | X | X | | | | |
| June 23 Bell Towers TSP 23031537 | | 40 CFM | | 0:00 | | | | | | | X | X | X | | | | |
| June 29 Bell Towers TSP 23031538 | | 40 CFM | | 0:00 | | | | | | | X | X | X | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2003.2023D.100
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Jade Browne

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com; emily.meek@kinross.com; aaron.peloquin@kinross.com; curtis.bloemberg@kinross.com***

Client Signature:
Affiliation: Kinross
Date/Time: July 4 2:00

Received by:
Affiliation:
Date/Time: 23/07/10 09:00

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Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/08/18**
Report #: R7771129
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3N7095**
**Received: 2023/08/08, 09:11**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | 3 | 2023/08/15 | 2023/08/16 | BRL SOP-00121 | ASTM D1739 m |
| Soluble Part. in Dustfall (D1739mod) | 3 | 2023/08/15 | 2023/08/17 | BRL SOP-00121 | ASTM D1739 m |
| Volume of Sample Received | 3 | 2023/08/15 | 2023/08/15 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCCFP, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/08/18**
Report #: R7771129
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3N7095**
**Received: 2023/08/08, 09:11**

Encryption Key

Cristina (Maria) Bacchus
Project Manager
18 Aug 2023 17:28:19

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3N7095
Report Date: 2023/08/18

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | WPS804 | | WPS805 | | WPS806 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/07/01 | | 2023/07/01 | | 2023/07/01 | | |
| COC Number | | n/a | | n/a | | n/a | | |
| | UNITS | JULY BELL TOWERS DUSTFALL | RDL | JULY TEARDROP DUSTFALL | RDL | JULY TOTE ROAD DUSTFALL | RDL | QC Batch |
| | | | | | | | | |
| Insoluble Particulate | mg | 7.3 | 1.0 | 24.1 (1) | 5.0 | 18.2 (1) | 5.0 | 8853295 |
| Soluble Particulate | mg | 4.8 | 1.9 | 9.8 | 1.9 | 6.2 | 1.8 | 8853303 |
| **Charge/Prep Analysis** | | | | | | | | |
| Volume of sample | ml | 1200 | 1 | 940 | 1 | 610 | 1 | 8853283 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Multiple Filters are used. Results and DLs are adjusted accordingly.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3N7095
Report Date: 2023/08/18

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** WPS804 **Collected:** 2023/07/01
**Sample ID:** JULY BELL TOWERS DUSTFALL **Shipped:**
**Matrix:** Water **Received:** 2023/08/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 8853295 | 2023/08/15 | 2023/08/16 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 8853303 | 2023/08/15 | 2023/08/17 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 8853283 | 2023/08/15 | 2023/08/15 | Mohammad Wahidul Alam |

**Bureau Veritas ID:** WPS805 **Collected:** 2023/07/01
**Sample ID:** JULY TEARDROP DUSTFALL **Shipped:**
**Matrix:** Water **Received:** 2023/08/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 8853295 | 2023/08/15 | 2023/08/16 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 8853303 | 2023/08/15 | 2023/08/17 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 8853283 | 2023/08/15 | 2023/08/15 | Mohammad Wahidul Alam |

**Bureau Veritas ID:** WPS806 **Collected:** 2023/07/01
**Sample ID:** JULY TOTE ROAD DUSTFALL **Shipped:**
**Matrix:** Water **Received:** 2023/08/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 8853295 | 2023/08/15 | 2023/08/16 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 8853303 | 2023/08/15 | 2023/08/17 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 8853283 | 2023/08/15 | 2023/08/15 | Mohammad Wahidul Alam |



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3N7095
Report Date: 2023/08/18

## QUALITY ASSURANCE REPORT

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

| | | | SPIKED BLANK | | Method Blank | |
|---|---|---|---|---|---|---|
| **QC Batch** | **Parameter** | **Date** | **% Recovery** | **QC Limits** | **Value** | **UNITS** |
| 8853295 | Insoluble Particulate | 2023/08/16 | 98 | 85 - 115 | <1.0 | mg |
| 8853303 | Soluble Particulate | 2023/08/17 | 99 | 85 - 115 | <0.20 | mg |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3N7095
Report Date: 2023/08/18

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

IR

BUREAU VERITAS

6740 Campobello Rd
Mississauga Ontario ,L5N 2L8
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR

CAM FCD-01302 /3

Page ____ of _

**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM + CB + EM

**SECTION**

**ANALYSIS REQUESTED**

08-Aug-23 09:11
Lori Dufour
C3N7095
AN4 AIR-RmTmp

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening (Inner Diameter | Dust Fall Opening (Outer Diameter | Silica | PM 10 | PM 2.5 | Dustfall | TSP | Metals | Mercury | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| July Bell Towers Dustfall | | | Jul 1 - Aug 1 | | 5.5" | 6.5" | | | | X | | | | | | | |
| July Teardrop Dustfall | | | Jul 1 - Aug 1 | | 5.5" | 6.5" | | | | X | | | | | | | |
| July Tote Road Dustfall | | | Jul 1 - Aug 1 | | 5.5" | 6.5" | | | | X | | | | | | | |
| July 5 TSP 23061216 Bell Towers | | 46 | 5-Jul | | | | | | | | X | X | X | | | | |
| July 11 TSP 23061217 Bell Towers | | 50 | 11-Jul | | | | | | | | X | X | X | | | | |
| July 17 TSP 23061218 Bell Towers | | 50 | 17-Jul | | | | | | | | X | X | X | | | | |
| July 23 TSP 23061219 Bell Towers | | 66 | 23-Jul | | | | | | | | X | X | X | | | | |
| July 29 TSP 23061221 Bell Towers | | 42 | 29-Jul | | | | | | | | X | X | X | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2003.2023D.100
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Jade Browne

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com; emily.meek@kinross.com; aaron.peloquin@kinross.com; curtis.bloemberg@kinross.com***

Client Signature:
Affiliation:
Date/Time:

Received by: SAMIA BROOKS
Affiliation:
Date/Time: 2023/08/08 09:11

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions*

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/08/18**
Report #: R7771129
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3N7095**
**Received: 2023/08/08, 09:11**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | 3 | 2023/08/15 | 2023/08/16 | BRL SOP-00121 | ASTM D1739 m |
| Soluble Part. in Dustfall (D1739mod) | 3 | 2023/08/15 | 2023/08/17 | BRL SOP-00121 | ASTM D1739 m |
| Volume of Sample Received | 3 | 2023/08/15 | 2023/08/15 | | |

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

Encryption Key

Cristina (Maria) Bacchus
Project Manager
18 Aug 2023 17:28:20

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Bureau Veritas Job #: C3N7095
Report Date: 2023/08/18

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | WPS804 | | WPS805 | | WPS806 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/07/01 | | 2023/07/01 | | 2023/07/01 | | |
| COC Number | | n/a | | n/a | | n/a | | |
| | UNITS | JULY BELL TOWERS DUSTFALL | RDL | JULY TEARDROP DUSTFALL | RDL | JULY TOTE ROAD DUSTFALL | RDL | QC Batch |
| | | | | | | | | |
| Insoluble Particulate | mg | 7.3 | 1.0 | 24.1 (1) | 5.0 | 18.2 (1) | 5.0 | 8853295 |
| Soluble Particulate | mg | 4.8 | 1.9 | 9.8 | 1.9 | 6.2 | 1.8 | 8853303 |
| **Charge/Prep Analysis** | | | | | | | | |
| Volume of sample | ml | 1200 | 1 | 940 | 1 | 610 | 1 | 8853283 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Multiple Filters are used. Results and DLs are adjusted accordingly.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3N7095
Report Date: 2023/08/18

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## GENERAL COMMENTS

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3N7095
Report Date: 2023/08/18

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 8853295 | MOW | Spiked Blank | Insoluble Particulate | 2023/08/16 | | 98 | % | 85 - 115 |
| 8853295 | MOW | Method Blank | Insoluble Particulate | 2023/08/16 | <1.0 | | mg | |
| 8853303 | MOW | Spiked Blank | Soluble Particulate | 2023/08/17 | | 99 | % | 85 - 115 |
| 8853303 | MOW | Method Blank | Soluble Particulate | 2023/08/17 | <0.20 | | mg | |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



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Bureau Veritas Job #: C3N7095
Report Date: 2023/08/18

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJET
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/09/25**
Report #: R7830656
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3R5508**
**Received: 2023/09/08, 09:04**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | 3 | 2023/09/22 | 2023/09/25 | BRL SOP-00121 | ASTM D1739 m |
| Soluble Part. in Dustfall (D1739mod) | 3 | 2023/09/22 | 2023/09/25 | BRL SOP-00121 | ASTM D1739 m |
| Volume of Sample Received | 3 | 2023/09/22 | 2023/09/22 | | |

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

Encryption Key

Cristina (Maria) Bacchus
Project Manager
25 Sep 2023 18:14:25

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Bureau Veritas Job #: C3R5508
Report Date: 2023/09/25

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJET
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | WXX345 | | WXX346 | | WXX347 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/09/01 | | 2023/09/01 | | 2023/09/01 | | |
| COC Number | | n/a | | n/a | | n/a | | |
| | UNITS | JULY BELL TOWERS DUSTFALL | RDL | JULY TEARDROP DUSTFALL | RDL | JULY TOTE ROAD DUSTFALL | RDL | QC Batch |
| | | | | | | | | |
| Insoluble Particulate | mg | 5.7 | 1.0 | 7.6 (1) | 3.0 | 7.6 | 1.0 | 8934262 |
| Soluble Particulate | mg | 4.4 | 1.6 | 4.6 | 1.8 | 4.6 | 1.8 | 8934269 |
| **Charge/Prep Analysis** | | | | | | | | |
| Volume of sample | ml | 200 | 1 | 410 | 1 | 440 | 1 | 8934254 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Multiple Filters are used. Results and DLs are adjusted accordingly.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3R5508
Report Date: 2023/09/25

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJET
Your P.O. #: C026300307
Sampler Initials: JM

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3R5508
Report Date: 2023/09/25

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJET
Your P.O. #: C026300307
Sampler Initials: JM

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 8934262 | MOW | Spiked Blank | Insoluble Particulate | 2023/09/25 | | 94 | % | 85 - 115 |
| 8934262 | MOW | Method Blank | Insoluble Particulate | 2023/09/25 | <1.0 | | mg | |
| 8934269 | MOW | Spiked Blank | Soluble Particulate | 2023/09/25 | | 99 | % | 85 - 115 |
| 8934269 | MOW | Method Blank | Soluble Particulate | 2023/09/25 | <0.20 | | mg | |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3R5508
Report Date: 2023/09/25

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJET
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: C026300307
Your Project #: OMEMA2003.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/10/20**
Report #: R7870747
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3V1514**
**Received: 2023/10/05, 09:41**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | 3 | 2023/10/13 | 2023/10/17 | BRL SOP-00121 | ASTM D1739 m |
| Soluble Part. in Dustfall (D1739mod) | 3 | 2023/10/13 | 2023/10/18 | BRL SOP-00121 | ASTM D1739 m |
| Volume of Sample Received | 3 | 2023/10/13 | 2023/10/13 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCCFP, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: C026300307
Your Project #: OMEMA2003.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/10/20**
Report #: R7870747
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3V1514**
**Received: 2023/10/05, 09:41**

Encryption Key

Jade Browne
Project Manager Assistant - Air
20 Oct 2023 15:50:23

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Bureau Veritas Job #: C3V1514
Report Date: 2023/10/20

WSP E & I Canada Limited
Client Project #: OMEMA2003.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | XFI927 | | XFI928 | | XFI930 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/09/01 | | 2023/09/01 | | 2023/09/01 | | |
| COC Number | | n/a | | n/a | | n/a | | |
| | UNITS | JULY BELL TOWERS DUSTFALL | RDL | JULY TEARDROP DUSTFALL | RDL | JULY TOTE ROAD DUSTFALL | RDL | QC Batch |
| | | | | | | | | |
| Insoluble Particulate | mg | 6.1 | 1.0 | 13.2 (1) | 2.0 | 2.6 | 1.0 | 8978877 |
| Soluble Particulate | mg | 12.6 | 1.7 | 8.4 | 1.6 | 4.8 | 1.8 | 8978888 |
| **Charge/Prep Analysis** | | | | | | | | |
| Volume of sample | ml | 280 | 1 | 200 | 1 | 400 | 1 | 8978830 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Multiple Filters are used. Results and DLs are adjusted accordingly.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3V1514
Report Date: 2023/10/20

WSP E & I Canada Limited
Client Project #: OMEMA2003.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** XFI927
**Sample ID:** JULY BELL TOWERS DUSTFALL
**Matrix:** Water

**Collected:** 2023/09/01
**Shipped:**
**Received:** 2023/10/05

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 8978877 | 2023/10/13 | 2023/10/17 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 8978888 | 2023/10/13 | 2023/10/18 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 8978830 | 2023/10/13 | 2023/10/13 | Mohammad Wahidul Alam |

**Bureau Veritas ID:** XFI928
**Sample ID:** JULY TEARDROP DUSTFALL
**Matrix:** Water

**Collected:** 2023/09/01
**Shipped:**
**Received:** 2023/10/05

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 8978877 | 2023/10/13 | 2023/10/17 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 8978888 | 2023/10/13 | 2023/10/18 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 8978830 | 2023/10/13 | 2023/10/13 | Mohammad Wahidul Alam |

**Bureau Veritas ID:** XFI930
**Sample ID:** JULY TOTE ROAD DUSTFALL
**Matrix:** Water

**Collected:** 2023/09/01
**Shipped:**
**Received:** 2023/10/05

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 8978877 | 2023/10/13 | 2023/10/17 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 8978888 | 2023/10/13 | 2023/10/18 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 8978830 | 2023/10/13 | 2023/10/13 | Mohammad Wahidul Alam |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3V1514
Report Date: 2023/10/20

## QUALITY ASSURANCE REPORT

WSP E & I Canada Limited
Client Project #: OMEMA2003.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

| | | | SPIKED BLANK | | Method Blank | |
|---|---|---|---|---|---|---|
| **QC Batch** | **Parameter** | **Date** | **% Recovery** | **QC Limits** | **Value** | **UNITS** |
| 8978877 | Insoluble Particulate | 2023/10/17 | 99 | 85 - 115 | <1.0 | mg |
| 8978888 | Soluble Particulate | 2023/10/18 | 101 | 85 - 115 | <0.20 | mg |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



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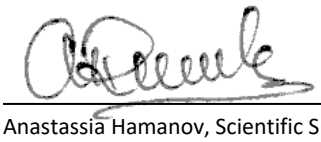
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3V1514
Report Date: 2023/10/20

WSP E & I Canada Limited
Client Project #: OMEMA2003.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

AIR

CAM FCD-01302 /3

6740 Campobello Rd
Mississauga Ontario ,L5N 2L8
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM + CB + EM

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening (Inner Diameter) | Dust Fall Opening (Outer Diameter) | Silica | PM 10 | PM 2.5 | Dustfall | TSP | Metals | Mercury | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| July Bell Towers Dustfall | | | Aug 1 - Sep 1 | 11:05 | 5.5" | 6.5" | | | | X | | | | | | | |
| July Teardrop Dustfall | | | Aug 1 - Sep 1 | 12:10 | 5.5" | 6.5" | | | | X | | | | | | | |
| July Tote Road Dustfall | | | Aug 1 - Sep 1 | 9:25 | 5.5" | 6.5" | | | | X | | | | | | | |
| | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | |

05-Oct-23 09:41
Jade Browne
C3V1514
SWP AIR-RmTmp

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2003.2023D.100
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Jade Browne

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com; emily.meek@kinross.com; aaron.peloquin@kinross.com; curtis.bloemberg@kinross.com***

Client Signature:
Affiliation:
Date/Time:

Received by: S. Salvant
Affiliation:
Date/Time: 2023 / 10 / 05 09:41

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Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/02/23**
Report #: R8039570
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C439779**
**Received: 2024/02/08, 08:55**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | 3 | 2024/02/20 | 2024/02/22 | BRL SOP-00121 | ASTM D1739 m |
| Soluble Part. in Dustfall (D1739mod) | 3 | 2024/02/20 | 2024/02/22 | BRL SOP-00121 | ASTM D1739 m |
| Volume of Sample Received | 3 | 2024/02/20 | 2024/02/20 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/02/23**
Report #: R8039570
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C439779**
**Received: 2024/02/08, 08:55**

Encryption Key

Cristina (Maria) Bacchus
Project Manager
23 Feb 2024 16:39:58

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C439779
Report Date: 2024/02/23

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: CB

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | YII318 | | YII319 | | YII320 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/02/01 12:50 | | 2024/02/01 10:25 | | 2024/02/01 09:30 | | |
| COC Number | | n/a | | n/a | | n/a | | |
| | UNITS | JANUARY BELL TOWERS DUSTFALL | RDL | JANUARY TEARDROP DUSTFALL | RDL | JANUARY TOTE ROAD DUSTFALL | RDL | QC Batch |
| Insoluble Particulate | mg | <1.0 | 1.0 | <1.0 | 1.0 | <1.0 | 1.0 | 9229068 |
| Soluble Particulate | mg | 2.6 | 1.6 | 2.4 | 2.0 | 2.0 | 1.2 | 9229075 |
| **Charge/Prep Analysis** | | | | | | | | |
| Volume of sample | ml | 180 | 1 | 13 | 1 | 79 | 1 | 9229066 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C439779
Report Date: 2024/02/23

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: CB

## TEST SUMMARY

**Bureau Veritas ID:** YII318 **Collected:** 2024/02/01
**Sample ID:** JANUARY BELL TOWERS DUSTFALL **Shipped:**
**Matrix:** Water **Received:** 2024/02/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 9229068 | 2024/02/20 | 2024/02/22 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 9229075 | 2024/02/20 | 2024/02/22 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 9229066 | 2024/02/20 | 2024/02/20 | Mohammad Wahidul Alam |

**Bureau Veritas ID:** YII319 **Collected:** 2024/02/01
**Sample ID:** JANUARY TEARDROP DUSTFALL **Shipped:**
**Matrix:** Water **Received:** 2024/02/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 9229068 | 2024/02/20 | 2024/02/22 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 9229075 | 2024/02/20 | 2024/02/22 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 9229066 | 2024/02/20 | 2024/02/20 | Mohammad Wahidul Alam |

**Bureau Veritas ID:** YII320 **Collected:** 2024/02/01
**Sample ID:** JANUARY TOTE ROAD DUSTFALL **Shipped:**
**Matrix:** Water **Received:** 2024/02/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 9229068 | 2024/02/20 | 2024/02/22 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 9229075 | 2024/02/20 | 2024/02/22 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 9229066 | 2024/02/20 | 2024/02/20 | Mohammad Wahidul Alam |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C439779
Report Date: 2024/02/23

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: CB

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C439779
Report Date: 2024/02/23

## QUALITY ASSURANCE REPORT

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: CB

| | | | SPIKED BLANK | | Method Blank | |
|---|---|---|---|---|---|---|
| **QC Batch** | **Parameter** | **Date** | **% Recovery** | **QC Limits** | **Value** | **UNITS** |
| 9229068 | Insoluble Particulate | 2024/02/22 | 98 | 85 - 115 | <1.0 | mg |
| 9229075 | Soluble Particulate | 2024/02/22 | 99 | 85 - 115 | <0.20 | mg |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C439779
Report Date: 2024/02/23

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: CB

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

08-Feb-24 08:55
Gina Baybayan
C439779

RUK AIR-RmTmp

Toll Free: 1-800-668-0639
L8 Phone: (905) 817-5700
Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR

CAM FCD-01302 /3

Page ____ of ____

Company Name: Kinross / Woodd

MATION

Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0

N

Phone: (807) 728-2185 Fax:

Sampled by: CB

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time/ Date | Dust Fall Opening (Inner Diameter | Dust Fall Opening (Outer Diameter | Silica | PM 10 | PM 2.5 | Dustfall | TSP | Metals | Mercury |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January Bell Towers Dustfall | | | Jan 2 - Feb 1 | 12:50 | 5.5" | 6.5" | | | | X | | | |
| January Teardrop Dustfall | | | Jan 2 - Feb 1 | 10:25 | 5.5" | 6.5" | | | | X | | | |
| January Tote Road Dustfall | | | Jan 2 - Feb 1 | 9:30 | 5.5" | 6.5" | | | | X | | | |
| January 10th TSP Bell Towers | | N/A | 10-Jan | Jan 11 2024 9:50 | | | | | | | X | X | X |
| January 13th TSP Bell Towers | | 44 | 13-Jan | Jan 15 2024 10:40 | | | | | | | X | X | X |
| anuary 15th TSP Bell Towers BLANK | | 44 | 15-Jan | Jan 17 2024 1:00 | | | | | | | X | X | X |
| January 19th TSP Bell Towers | | 44 | 19-Jan | Jan 20 2024 9:00 | | | | | | | X | X | X |
| January 25th TSP Bell Towers | | 42 | 25-Jan | Jan 26 2024 11:45 | | | | | | | X | X | X |
| January 31th TSP Bell Towers | | 44 | 31-Jan | Feb 1 2024 12:55 | | | | | | | X | X | X |

ANALYSIS REQUESTED

irement

siness day ☑
siness day * ☐
siness day * ☐
proval from Bureau

**PROJECT INFORMATION**

Project #: OMEMA2003.2023D.100
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Jade Browne

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑

Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com; emily.meek@kinross.com; aaron.peloquin@kinross.com; curtis.bloemberg@kinross.com***

ature:

Received by: ANERI
Affiliation: ANERI
Date/Time: 2024/02/08 08:55

se agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at abs.com/terms-and-conditions

Your P.O. #: P104312CA001
Your Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your C.O.C. #: N/A

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/11/22**
Report #: R8416061
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4Z1572**
**Received: 2024/11/07, 09:30**

Sample Matrix: Water
# Samples Received: 4

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Mercury in Water by CVAA | 4 | 2024/11/19 | 2024/11/20 | CAM SOP-00453 | EPA 7470A m |
| Total Metals Analysis by ICPMS | 4 | 2024/11/20 | 2024/11/20 | CAM SOP-00447 | EPA 6020B m |
| Insoluble Part. in Dustfall (D1739mod) | 4 | 2024/11/12 | 2024/11/13 | BRL SOP-00121 | ASTM D1739 m |
| Soluble Part. in Dustfall (D1739mod) | 4 | 2024/11/12 | 2024/11/15 | BRL SOP-00121 | ASTM D1739 m |
| Volume of Sample Received | 4 | 2024/11/12 | 2024/11/12 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
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Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

Your P.O. #: P104312CA001
Your Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your C.O.C. #: N/A

**Attention: Kinross Project**

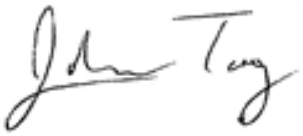
WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/11/22**
Report #: R8416061
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4Z1572**
**Received: 2024/11/07, 09:30**

Encryption Key



Julian Tong
Project Manager Assistant
22 Nov 2024 14:55:14

Please direct all questions regarding this Certificate of Analysis to:
Julian Tong, Project Manager Assistant
Email: Julian.Tong@bureauveritas.com
Phone# (905) 817-5700

==========

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4Z1572
Report Date: 2024/11/22

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | AIFQ55 | AIFQ56 | AIFQ57 | AIFQ58 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/11/01 | 2024/11/01 | 2024/11/01 | 2024/11/01 | | |
| COC Number | | N/A | N/A | N/A | N/A | | |
| | UNITS | OCTOBER BELL TOWERS DUSTFALL | OCTOBER TEARDROP DUSTFALL | OCTOBER RICE LAKE DUSTFALL | OCTOBER RICE LAKE DUSTFALL DUPLICATE | RDL | QC Batch |
| Insoluble Particulate | mg | 7.8 (1) | 5.6 (1) | 3.4 (1) | 3.0 (1) | 2.0 | 9760103 |
| Soluble Particulate | mg | 14.8 (1) | <4.0 (1) | <4.0 (1) | <4.0 (1) | 4.0 | 9760121 |
| **Charge/Prep Analysis** | | | | | | | |
| Volume of sample | ml | 1 (2) | 12 (3) | 1 (2) | 1 (2) | 1 | 9760098 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) 50% of sample volume was processed for dustfall; remaining 50% of sample volume was sent to Inorganic Processing for further metals and Hg analysis.
Results and DL were multiplied by 2.
(2) 50% of sample volume was processed for dustfall; remaining 50% of sample volume was sent to Inorganic Processing for further metals and Hg analysis.
Sample container was received dry.
Added 200mL of RODI to reconstitute the residue.
Default volume of 1 is entered to facilitate calculation of the total dustfall.
(3) 50% of sample volume was processed for dustfall; remaining 50% of sample volume was sent to Inorganic Processing for further metals and Hg analysis.
Sample container was received with less than 200 mL.
Bulked sample to 200mL of RODI to reconstitute the residue and for sample splitting.


Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4Z1572
Report Date: 2024/11/22

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

| Bureau Veritas ID | | AIFQ55 | AIFQ56 | AIFQ57 | AIFQ58 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/11/01 | 2024/11/01 | 2024/11/01 | 2024/11/01 | | |
| COC Number | | N/A | N/A | N/A | N/A | | |
| | UNITS | OCTOBER BELL TOWERS DUSTFALL | OCTOBER TEARDROP DUSTFALL | OCTOBER RICE LAKE DUSTFALL | OCTOBER RICE LAKE DUSTFALL DUPLICATE | RDL | QC Batch |
| **Metals** | | | | | | | |
| Mercury (Hg) | mg/L | <0.00010 | <0.00010 | <0.00010 | <0.00010 | 0.00010 | 9774361 |
| Total Aluminum (Al) | ug/L | 180 | 130 | 180 | 160 | 4.9 | 9776764 |
| Total Antimony (Sb) | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9776764 |
| Total Arsenic (As) | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9776764 |
| Total Barium (Ba) | ug/L | 5.6 | 3.7 | 3.8 | 3.0 | 2.0 | 9776764 |
| Total Beryllium (Be) | ug/L | <0.40 | <0.40 | <0.40 | <0.40 | 0.40 | 9776764 |
| Total Bismuth (Bi) | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9776764 |
| Total Boron (B) | ug/L | <10 | <10 | <10 | <10 | 10 | 9776764 |
| Total Cadmium (Cd) | ug/L | 0.13 | <0.090 | <0.090 | <0.090 | 0.090 | 9776764 |
| Total Calcium (Ca) | ug/L | 1600 | 1400 | 1300 | 1300 | 200 | 9776764 |
| Total Chromium (Cr) | ug/L | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 9776764 |
| Total Cobalt (Co) | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9776764 |
| Total Copper (Cu) | ug/L | 13 | 1.7 | 2.5 | 2.1 | 0.90 | 9776764 |
| Total Iron (Fe) | ug/L | 250 | 180 | 220 | 200 | 100 | 9776764 |
| Total Lead (Pb) | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9776764 |
| Total Lithium (Li) | ug/L | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 9776764 |
| Total Magnesium (Mg) | ug/L | 670 | 270 | 270 | 260 | 50 | 9776764 |
| Total Manganese (Mn) | ug/L | 31 | 13 | 12 | 12 | 2.0 | 9776764 |
| Total Molybdenum (Mo) | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9776764 |
| Total Nickel (Ni) | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9776764 |
| Total Potassium (K) | ug/L | 2100 | <200 | 250 | <200 | 200 | 9776764 |
| Total Selenium (Se) | ug/L | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 9776764 |
| Total Silicon (Si) | ug/L | 360 | 590 | 410 | 430 | 50 | 9776764 |
| Total Silver (Ag) | ug/L | <0.090 | <0.090 | <0.090 | <0.090 | 0.090 | 9776764 |
| Total Sodium (Na) | ug/L | 6000 | 1400 | 1300 | 1300 | 100 | 9776764 |
| Total Strontium (Sr) | ug/L | 3.3 | 1.9 | 1.9 | 1.9 | 1.0 | 9776764 |
| Total Tellurium (Te) | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9776764 |
| Total Thallium (Tl) | ug/L | <0.050 | <0.050 | <0.050 | <0.050 | 0.050 | 9776764 |
| Total Tin (Sn) | ug/L | 4.6 | 4.8 | 3.8 | 7.2 | 1.0 | 9776764 |
| Total Titanium (Ti) | ug/L | 10 | 6.2 | 7.5 | 7.2 | 5.0 | 9776764 |
| Total Tungsten (W) | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9776764 |
| Total Uranium (U) | ug/L | <0.10 | <0.10 | <0.10 | <0.10 | 0.10 | 9776764 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4Z1572
Report Date: 2024/11/22

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

| Bureau Veritas ID | | AIFQ55 | AIFQ56 | AIFQ57 | AIFQ58 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/11/01 | 2024/11/01 | 2024/11/01 | 2024/11/01 | | |
| COC Number | | N/A | N/A | N/A | N/A | | |
| | UNITS | OCTOBER BELL TOWERS DUSTFALL | OCTOBER TEARDROP DUSTFALL | OCTOBER RICE LAKE DUSTFALL | OCTOBER RICE LAKE DUSTFALL DUPLICATE | RDL | QC Batch |
| Total Vanadium (V) | ug/L | 0.75 | 0.74 | 0.67 | 0.67 | 0.50 | 9776764 |
| Total Zinc (Zn) | ug/L | 24 | <5.0 | <5.0 | <5.0 | 5.0 | 9776764 |
| Total Zirconium (Zr) | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9776764 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4Z1572
Report Date: 2024/11/22

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## GENERAL COMMENTS

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9760103 | ALT | Spiked Blank | Insoluble Particulate | 2024/11/13 | | 95 | % | 85 - 115 |
| 9760103 | ALT | Method Blank | Insoluble Particulate | 2024/11/13 | <1.0 | | mg | |
| 9760121 | JNA | Spiked Blank | Soluble Particulate | 2024/11/15 | | 100 | % | 85 - 115 |
| 9760121 | JNA | Method Blank | Soluble Particulate | 2024/11/15 | <0.20 | | mg | |
| 9774361 | MPJ | Matrix Spike | Mercury (Hg) | 2024/11/20 | | 92 | % | 75 - 125 |
| 9774361 | MPJ | Spiked Blank | Mercury (Hg) | 2024/11/20 | | 99 | % | 80 - 120 |
| 9774361 | MPJ | Method Blank | Mercury (Hg) | 2024/11/20 | <0.00010 | | mg/L | |
| 9774361 | MPJ | RPD | Mercury (Hg) | 2024/11/20 | NC | | % | 20 |
| 9776764 | N_R | Matrix Spike | Total Aluminum (Al) | 2024/11/20 | | 105 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2024/11/20 | | 101 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2024/11/20 | | 101 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2024/11/20 | | 94 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2024/11/20 | | 108 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2024/11/20 | | 94 | % | 80 - 120 |
| | | | Total Boron (B) | 2024/11/20 | | 103 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2024/11/20 | | 99 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2024/11/20 | | NC | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2024/11/20 | | 96 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2024/11/20 | | 99 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2024/11/20 | | 99 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2024/11/20 | | 98 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2024/11/20 | | 95 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2024/11/20 | | 107 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2024/11/20 | | 93 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2024/11/20 | | 95 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2024/11/20 | | 101 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2024/11/20 | | 94 | % | 80 - 120 |
| | | | Total Potassium (K) | 2024/11/20 | | 97 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2024/11/20 | | 106 | % | 80 - 120 |
| | | | Total Silicon (Si) | 2024/11/20 | | 97 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2024/11/20 | | 94 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2024/11/20 | | 96 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2024/11/20 | | 92 | % | 80 - 120 |
| | | | Total Tellurium (Te) | 2024/11/20 | | 99 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2024/11/20 | | 101 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2024/11/20 | | 97 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2024/11/20 | | 94 | % | 80 - 120 |
| | | | Total Tungsten (W) | 2024/11/20 | | 103 | % | 80 - 120 |
| | | | Total Uranium (U) | 2024/11/20 | | 98 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2024/11/20 | | 99 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2024/11/20 | | 100 | % | 80 - 120 |
| | | | Total Zirconium (Zr) | 2024/11/20 | | 104 | % | 80 - 120 |
| 9776764 | N_R | Spiked Blank | Total Aluminum (Al) | 2024/11/20 | | 98 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2024/11/20 | | 98 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2024/11/20 | | 99 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2024/11/20 | | 93 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2024/11/20 | | 102 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2024/11/20 | | 96 | % | 80 - 120 |
| | | | Total Boron (B) | 2024/11/20 | | 100 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2024/11/20 | | 97 | % | 80 - 120 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Calcium (Ca) | 2024/11/20 | | 97 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2024/11/20 | | 94 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2024/11/20 | | 97 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2024/11/20 | | 98 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2024/11/20 | | 96 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2024/11/20 | | 96 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2024/11/20 | | 100 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2024/11/20 | | 94 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2024/11/20 | | 93 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2024/11/20 | | 98 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2024/11/20 | | 94 | % | 80 - 120 |
| | | | Total Potassium (K) | 2024/11/20 | | 97 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2024/11/20 | | 104 | % | 80 - 120 |
| | | | Total Silicon (Si) | 2024/11/20 | | 94 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2024/11/20 | | 93 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2024/11/20 | | 95 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2024/11/20 | | 92 | % | 80 - 120 |
| | | | Total Tellurium (Te) | 2024/11/20 | | 99 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2024/11/20 | | 102 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2024/11/20 | | 94 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2024/11/20 | | 92 | % | 80 - 120 |
| | | | Total Tungsten (W) | 2024/11/20 | | 99 | % | 80 - 120 |
| | | | Total Uranium (U) | 2024/11/20 | | 97 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2024/11/20 | | 96 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2024/11/20 | | 99 | % | 80 - 120 |
| | | | Total Zirconium (Zr) | 2024/11/20 | | 101 | % | 80 - 120 |
| 9776764 | N_R | Method Blank | Total Aluminum (Al) | 2024/11/20 | <4.9 | | ug/L | |
| | | | Total Antimony (Sb) | 2024/11/20 | <0.50 | | ug/L | |
| | | | Total Arsenic (As) | 2024/11/20 | <1.0 | | ug/L | |
| | | | Total Barium (Ba) | 2024/11/20 | <2.0 | | ug/L | |
| | | | Total Beryllium (Be) | 2024/11/20 | <0.40 | | ug/L | |
| | | | Total Bismuth (Bi) | 2024/11/20 | <1.0 | | ug/L | |
| | | | Total Boron (B) | 2024/11/20 | <10 | | ug/L | |
| | | | Total Cadmium (Cd) | 2024/11/20 | <0.090 | | ug/L | |
| | | | Total Calcium (Ca) | 2024/11/20 | <200 | | ug/L | |
| | | | Total Chromium (Cr) | 2024/11/20 | <5.0 | | ug/L | |
| | | | Total Cobalt (Co) | 2024/11/20 | <0.50 | | ug/L | |
| | | | Total Copper (Cu) | 2024/11/20 | <0.90 | | ug/L | |
| | | | Total Iron (Fe) | 2024/11/20 | <100 | | ug/L | |
| | | | Total Lead (Pb) | 2024/11/20 | <0.50 | | ug/L | |
| | | | Total Lithium (Li) | 2024/11/20 | <5.0 | | ug/L | |
| | | | Total Magnesium (Mg) | 2024/11/20 | <50 | | ug/L | |
| | | | Total Manganese (Mn) | 2024/11/20 | <2.0 | | ug/L | |
| | | | Total Molybdenum (Mo) | 2024/11/20 | <0.50 | | ug/L | |
| | | | Total Nickel (Ni) | 2024/11/20 | <1.0 | | ug/L | |
| | | | Total Potassium (K) | 2024/11/20 | <200 | | ug/L | |
| | | | Total Selenium (Se) | 2024/11/20 | <2.0 | | ug/L | |
| | | | Total Silicon (Si) | 2024/11/20 | <50 | | ug/L | |
| | | | Total Silver (Ag) | 2024/11/20 | <0.090 | | ug/L | |
| | | | Total Sodium (Na) | 2024/11/20 | <100 | | ug/L | |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Strontium (Sr) | 2024/11/20 | <1.0 | | ug/L | |
| | | | Total Tellurium (Te) | 2024/11/20 | <1.0 | | ug/L | |
| | | | Total Thallium (Tl) | 2024/11/20 | <0.050 | | ug/L | |
| | | | Total Tin (Sn) | 2024/11/20 | <1.0 | | ug/L | |
| | | | Total Titanium (Ti) | 2024/11/20 | <5.0 | | ug/L | |
| | | | Total Tungsten (W) | 2024/11/20 | <1.0 | | ug/L | |
| | | | Total Uranium (U) | 2024/11/20 | <0.10 | | ug/L | |
| | | | Total Vanadium (V) | 2024/11/20 | <0.50 | | ug/L | |
| | | | Total Zinc (Zn) | 2024/11/20 | <5.0 | | ug/L | |
| | | | Total Zirconium (Zr) | 2024/11/20 | <1.0 | | ug/L | |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4Z1572
Report Date: 2024/11/22

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Louise Harding, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: P104312CA001
Your Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your C.O.C. #: N/A

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2025/02/10**
Report #: R8485146
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4BN961**
**Received: 2024/12/19, 17:07**

Sample Matrix: Air
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Soluble Metals in Dustfall (6020Bmod) (1) | 3 | N/A | 2025/01/10 | BRL SOP-00114/121 CAM SOP-00447 | EPA 6020Bmod (D1739) |
| Soluble Metals in Dustfall Filtrate (1) | 3 | N/A | 2025/02/06 | BRL SOP-00114/121 CAM SOP-00447 | EPA 6020Bmod (D1739) |
| Insoluble Part. in Dustfall (D1739mod) | 3 | 2025/01/03 | 2025/01/04 | BRL SOP-00121 | ASTM D1739 m |
| Soluble Part. in Dustfall (D1739mod) | 3 | 2025/01/03 | 2025/01/06 | BRL SOP-00121 | ASTM D1739 m |
| Volume of Sample Received | 3 | 2025/01/03 | 2025/01/03 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test is not Standards Council of Canada accredited. Analysis was conducted in accordance with Bureau Veritas' Quality System.

Your P.O. #: P104312CA001
Your Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your C.O.C. #: N/A

**Attention: Kinross Project**

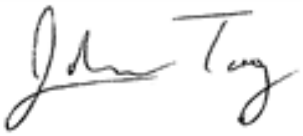
WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2025/02/10**
Report #: R8485146
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4BN961**
**Received: 2024/12/19, 17:07**

Encryption Key



Julian Tong
Project Manager Assistant
10 Feb 2025 14:20:11

Please direct all questions regarding this Certificate of Analysis to:
Julian Tong, Project Manager Assistant
Email: Julian.Tong@bureauveritas.com
Phone# (905) 817-5700

==========

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4BN961
Report Date: 2025/02/10

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## RESULTS OF ANALYSES OF AIR

| Bureau Veritas ID | | AMHI76 | | AMHI78 | AMHI79 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/11/01 | | 2024/11/01 | 2024/11/01 | | |
| | UNITS | NOVEMBER BELL TOWERS DUSTFALL | RDL | NOVEMBER RICE LAKE DUSTFALL | NOVEMBER DUP RICE LAKE DUSTFALL | RDL | QC Batch |
| | | | | | | | |
| Insoluble Particulate | mg | 1.1 | 1.0 | <1.0 | <1.0 | 1.0 | 9854064 |
| Soluble Particulate | mg | 2.2 | 1.7 | 4.6 | 1.8 | 1.8 | 9854068 |
| **Charge/Prep Analysis** | | | | | | | |
| Volume of sample | ml | 280 | 1 | 370 | 380 | 1 | 9854061 |
| Volume of filtrate + rinse | ml | 330 | 1 | 420 | 430 | 1 | 9854061 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Bureau Veritas Job #: C4BN961
Report Date: 2025/02/10

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## ELEMENTS BY ICP/MS (AIR)

| Bureau Veritas ID | | AMHI76 | | AMHI78 | | AMHI79 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/11/01 | | 2024/11/01 | | 2024/11/01 | | |
| | UNITS | NOVEMBER BELL TOWERS DUSTFALL | RDL | NOVEMBER RICE LAKE DUSTFALL | RDL | NOVEMBER DUP RICE LAKE DUSTFALL | RDL | QC Batch |
| **Metals** | | | | | | | | |
| Soluble Aluminum (Al) | ug | <13 | 13 | <17 | 17 | <17 | 17 | 9856560 |
| Soluble Aluminum (Al) | ug/ml | <0.040 | 0.040 | <0.040 | 0.040 | <0.040 | 0.040 | 9869686 |
| Soluble Antimony (Sb) | ug | <0.66 | 0.66 | <0.84 | 0.84 | <0.86 | 0.86 | 9856560 |
| Soluble Antimony (Sb) | ug/ml | <0.0020 | 0.0020 | <0.0020 | 0.0020 | <0.0020 | 0.0020 | 9869686 |
| Soluble Arsenic (As) | ug | <0.66 | 0.66 | <0.84 | 0.84 | <0.86 | 0.86 | 9856560 |
| Soluble Arsenic (As) | ug/ml | <0.0020 | 0.0020 | <0.0020 | 0.0020 | <0.0020 | 0.0020 | 9869686 |
| Soluble Barium (Ba) | ug | 12.3 | 0.66 | 7.85 | 0.84 | 13.5 | 0.86 | 9856560 |
| Soluble Barium (Ba) | ug/ml | 0.0370 | 0.0020 | 0.0186 | 0.0020 | 0.0315 | 0.0020 | 9869686 |
| Soluble Beryllium (Be) | ug | <0.40 | 0.40 | <0.51 | 0.51 | <0.52 | 0.52 | 9856560 |
| Soluble Beryllium (Be) | ug/ml | <0.0012 | 0.0012 | <0.0012 | 0.0012 | <0.0012 | 0.0012 | 9869686 |
| Soluble Bismuth (Bi) | ug | <0.66 | 0.66 | <0.84 | 0.84 | <0.86 | 0.86 | 9856560 |
| Soluble Bismuth (Bi) | ug/ml | <0.0020 | 0.0020 | <0.0020 | 0.0020 | <0.0020 | 0.0020 | 9869686 |
| Soluble Boron (B) | ug | <2.7 | 2.7 | <3.4 | 3.4 | <3.4 | 3.4 | 9856560 |
| Soluble Boron (B) | ug/ml | <0.0080 | 0.0080 | <0.0080 | 0.0080 | <0.0080 | 0.0080 | 9869686 |
| Soluble Cadmium (Cd) | ug | <0.13 | 0.13 | <0.17 | 0.17 | <0.17 | 0.17 | 9856560 |
| Soluble Cadmium (Cd) | ug/ml | <0.00040 | 0.00040 | <0.00040 | 0.00040 | <0.00040 | 0.00040 | 9869686 |
| Soluble Calcium (Ca) | ug | 235 | 33 | 171 | 42 | 259 | 43 | 9856560 |
| Soluble Calcium (Ca) | ug/ml | 0.71 | 0.10 | 0.41 | 0.10 | 0.60 | 0.10 | 9869686 |
| Soluble Chromium (Cr) | ug | <0.66 | 0.66 | <0.84 | 0.84 | <0.86 | 0.86 | 9856560 |
| Soluble Chromium (Cr) | ug/ml | <0.0020 | 0.0020 | <0.0020 | 0.0020 | <0.0020 | 0.0020 | 9869686 |
| Soluble Cobalt (Co) | ug | <0.40 | 0.40 | <0.51 | 0.51 | <0.52 | 0.52 | 9856560 |
| Soluble Cobalt (Co) | ug/ml | <0.0012 | 0.0012 | <0.0012 | 0.0012 | <0.0012 | 0.0012 | 9869686 |
| Soluble Copper (Cu) | ug | 0.66 | 0.40 | <0.51 | 0.51 | <0.52 | 0.52 | 9856560 |
| Soluble Copper (Cu) | ug/ml | 0.0020 | 0.0012 | <0.0012 | 0.0012 | <0.0012 | 0.0012 | 9869686 |
| Soluble Iron (Fe) | ug | <17 | 17 | <21 | 21 | <21 | 21 | 9856560 |
| Soluble Iron (Fe) | ug/ml | <0.050 | 0.050 | <0.050 | 0.050 | <0.050 | 0.050 | 9869686 |
| Soluble Lead (Pb) | ug | <0.40 | 0.40 | <0.51 | 0.51 | <0.52 | 0.52 | 9856560 |
| Soluble Lead (Pb) | ug/ml | <0.0012 | 0.0012 | <0.0012 | 0.0012 | <0.0012 | 0.0012 | 9869686 |
| Soluble Magnesium (Mg) | ug | 35.2 | 6.6 | 22.8 | 8.4 | 35.6 | 8.6 | 9856560 |
| Soluble Magnesium (Mg) | ug/ml | 0.106 | 0.020 | 0.054 | 0.020 | 0.083 | 0.020 | 9869686 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4BN961
Report Date: 2025/02/10

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## ELEMENTS BY ICP/MS (AIR)

| Bureau Veritas ID | | AMHI76 | | AMHI78 | | AMHI79 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/11/01 | | 2024/11/01 | | 2024/11/01 | | |
| | UNITS | NOVEMBER BELL TOWERS DUSTFALL | RDL | NOVEMBER RICE LAKE DUSTFALL | RDL | NOVEMBER DUP RICE LAKE DUSTFALL | RDL | QC Batch |
| Soluble Manganese (Mn) | ug | <0.66 | 0.66 | <0.84 | 0.84 | <0.86 | 0.86 | 9856560 |
| Soluble Manganese (Mn) | ug/ml | <0.0020 | 0.0020 | <0.0020 | 0.0020 | <0.0020 | 0.0020 | 9869686 |
| Soluble Molybdenum (Mo) | ug | <0.40 | 0.40 | <0.51 | 0.51 | <0.52 | 0.52 | 9856560 |
| Soluble Molybdenum (Mo) | ug/ml | <0.0012 | 0.0012 | <0.0012 | 0.0012 | <0.0012 | 0.0012 | 9869686 |
| Soluble Nickel (Ni) | ug | <0.66 | 0.66 | <0.84 | 0.84 | <0.86 | 0.86 | 9856560 |
| Soluble Nickel (Ni) | ug/ml | <0.0020 | 0.0020 | <0.0020 | 0.0020 | <0.0020 | 0.0020 | 9869686 |
| Soluble Potassium (K) | ug | <66 | 66 | <84 | 84 | <86 | 86 | 9856560 |
| Soluble Potassium (K) | ug/ml | <0.20 | 0.20 | <0.20 | 0.20 | <0.20 | 0.20 | 9869686 |
| Soluble Selenium (Se) | ug | <1.3 | 1.3 | <1.7 | 1.7 | <1.7 | 1.7 | 9856560 |
| Soluble Selenium (Se) | ug/ml | <0.0040 | 0.0040 | <0.0040 | 0.0040 | <0.0040 | 0.0040 | 9869686 |
| Soluble Silver (Ag) | ug | <0.13 | 0.13 | <0.17 | 0.17 | <0.17 | 0.17 | 9856560 |
| Soluble Silver (Ag) | ug/ml | <0.00040 | 0.00040 | <0.00040 | 0.00040 | <0.00040 | 0.00040 | 9869686 |
| Soluble Sodium (Na) | ug | 470 | 33 | 330 | 42 | 511 | 43 | 9856560 |
| Soluble Sodium (Na) | ug/ml | 1.42 | 0.10 | 0.78 | 0.10 | 1.19 | 0.10 | 9869686 |
| Soluble Strontium (Sr) | ug | 1.03 | 0.66 | <0.84 | 0.84 | 1.22 | 0.86 | 9856560 |
| Soluble Strontium (Sr) | ug/ml | 0.0031 | 0.0020 | <0.0020 | 0.0020 | 0.0028 | 0.0020 | 9869686 |
| Soluble Thallium (Tl) | ug | <0.66 | 0.66 | <0.84 | 0.84 | <0.86 | 0.86 | 9856560 |
| Soluble Thallium (Tl) | ug/ml | <0.0020 | 0.0020 | <0.0020 | 0.0020 | <0.0020 | 0.0020 | 9869686 |
| Soluble Tin (Sn) | ug | <0.40 | 0.40 | <0.51 | 0.51 | <0.52 | 0.52 | 9856560 |
| Soluble Tin (Sn) | ug/ml | <0.0012 | 0.0012 | <0.0012 | 0.0012 | <0.0012 | 0.0012 | 9869686 |
| Soluble Titanium (Ti) | ug | <1.3 | 1.3 | <1.7 | 1.7 | <1.7 | 1.7 | 9856560 |
| Soluble Titanium (Ti) | ug/ml | <0.0040 | 0.0040 | <0.0040 | 0.0040 | <0.0040 | 0.0040 | 9869686 |
| Soluble Uranium (U) | ug | <0.33 | 0.33 | <0.42 | 0.42 | <0.43 | 0.43 | 9856560 |
| Soluble Uranium (U) | ug/ml | <0.0010 | 0.0010 | <0.0010 | 0.0010 | <0.0010 | 0.0010 | 9869686 |
| Soluble Vanadium (V) | ug | <0.40 | 0.40 | <0.51 | 0.51 | <0.52 | 0.52 | 9856560 |
| Soluble Vanadium (V) | ug/ml | <0.0012 | 0.0012 | <0.0012 | 0.0012 | <0.0012 | 0.0012 | 9869686 |
| Soluble Zinc (Zn) | ug | <6.6 | 6.6 | <8.4 | 8.4 | <8.6 | 8.6 | 9856560 |
| Soluble Zinc (Zn) | ug/ml | <0.020 | 0.020 | <0.020 | 0.020 | <0.020 | 0.020 | 9869686 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## ELEMENTS BY ICP/MS (AIR)

| Bureau Veritas ID | | AMHI79 | | |
|---|---|---|---|---|
| Sampling Date | | 2024/11/01 | | |
| | UNITS | NOVEMBER DUP RICE LAKE DUSTFALL Lab-Dup | RDL | QC Batch |
| **Metals** | | | | |
| Soluble Aluminum (Al) | ug/ml | <0.040 | 0.040 | 9869686 |
| Soluble Antimony (Sb) | ug/ml | <0.0020 | 0.0020 | 9869686 |
| Soluble Arsenic (As) | ug/ml | <0.0020 | 0.0020 | 9869686 |
| Soluble Barium (Ba) | ug/ml | 0.0313 | 0.0020 | 9869686 |
| Soluble Beryllium (Be) | ug/ml | <0.0012 | 0.0012 | 9869686 |
| Soluble Bismuth (Bi) | ug/ml | <0.0020 | 0.0020 | 9869686 |
| Soluble Boron (B) | ug/ml | <0.0080 | 0.0080 | 9869686 |
| Soluble Cadmium (Cd) | ug/ml | <0.00040 | 0.00040 | 9869686 |
| Soluble Calcium (Ca) | ug/ml | 0.60 | 0.10 | 9869686 |
| Soluble Chromium (Cr) | ug/ml | <0.0020 | 0.0020 | 9869686 |
| Soluble Cobalt (Co) | ug/ml | <0.0012 | 0.0012 | 9869686 |
| Soluble Copper (Cu) | ug/ml | <0.0012 | 0.0012 | 9869686 |
| Soluble Iron (Fe) | ug/ml | <0.050 | 0.050 | 9869686 |
| Soluble Lead (Pb) | ug/ml | <0.0012 | 0.0012 | 9869686 |
| Soluble Magnesium (Mg) | ug/ml | 0.087 | 0.020 | 9869686 |
| Soluble Manganese (Mn) | ug/ml | <0.0020 | 0.0020 | 9869686 |
| Soluble Molybdenum (Mo) | ug/ml | <0.0012 | 0.0012 | 9869686 |
| Soluble Nickel (Ni) | ug/ml | <0.0020 | 0.0020 | 9869686 |
| Soluble Potassium (K) | ug/ml | <0.20 | 0.20 | 9869686 |
| Soluble Selenium (Se) | ug/ml | <0.0040 | 0.0040 | 9869686 |
| Soluble Silver (Ag) | ug/ml | <0.00040 | 0.00040 | 9869686 |
| Soluble Sodium (Na) | ug/ml | 1.21 | 0.10 | 9869686 |
| Soluble Strontium (Sr) | ug/ml | 0.0027 | 0.0020 | 9869686 |
| Soluble Thallium (Tl) | ug/ml | <0.0020 | 0.0020 | 9869686 |
| Soluble Tin (Sn) | ug/ml | <0.0012 | 0.0012 | 9869686 |
| Soluble Titanium (Ti) | ug/ml | <0.0040 | 0.0040 | 9869686 |
| Soluble Uranium (U) | ug/ml | <0.0010 | 0.0010 | 9869686 |
| Soluble Vanadium (V) | ug/ml | <0.0012 | 0.0012 | 9869686 |
| Soluble Zinc (Zn) | ug/ml | <0.020 | 0.020 | 9869686 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4BN961
Report Date: 2025/02/10

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** AMHI76 **Collected:** 2024/11/01
**Sample ID:** NOVEMBER BELL TOWERS DUSTFALL **Shipped:**
**Matrix:** Air **Received:** 2024/12/19

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Soluble Metals in Dustfall (6020Bmod) | ICP1/MS | 9856560 | N/A | 2025/01/10 | Automated Statchk |
| Soluble Metals in Dustfall Filtrate | ICP1/MS | 9869686 | N/A | 2025/02/06 | Nan Raykha |
| Insoluble Part. in Dustfall (D1739mod) | BAL | 9854064 | 2025/01/03 | 2025/01/04 | Adam Leavitt |
| Soluble Part. in Dustfall (D1739mod) | BAL | 9854068 | 2025/01/03 | 2025/01/06 | Joseph-Noel Andres |
| Volume of Sample Received | | 9854061 | 2025/01/03 | 2025/01/03 | Adam Leavitt |

**Bureau Veritas ID:** AMHI78 **Collected:** 2024/11/01
**Sample ID:** NOVEMBER RICE LAKE DUSTFALL **Shipped:**
**Matrix:** Air **Received:** 2024/12/19

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Soluble Metals in Dustfall (6020Bmod) | ICP1/MS | 9856560 | N/A | 2025/01/10 | Automated Statchk |
| Soluble Metals in Dustfall Filtrate | ICP1/MS | 9869686 | N/A | 2025/02/06 | Nan Raykha |
| Insoluble Part. in Dustfall (D1739mod) | BAL | 9854064 | 2025/01/03 | 2025/01/04 | Adam Leavitt |
| Soluble Part. in Dustfall (D1739mod) | BAL | 9854068 | 2025/01/03 | 2025/01/06 | Joseph-Noel Andres |
| Volume of Sample Received | | 9854061 | 2025/01/03 | 2025/01/03 | Adam Leavitt |

**Bureau Veritas ID:** AMHI79 **Collected:** 2024/11/01
**Sample ID:** NOVEMBER DUP RICE LAKE DUSTFALL **Shipped:**
**Matrix:** Air **Received:** 2024/12/19

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Soluble Metals in Dustfall (6020Bmod) | ICP1/MS | 9856560 | N/A | 2025/01/10 | Automated Statchk |
| Soluble Metals in Dustfall Filtrate | ICP1/MS | 9869686 | N/A | 2025/02/06 | Nan Raykha |
| Insoluble Part. in Dustfall (D1739mod) | BAL | 9854064 | 2025/01/03 | 2025/01/04 | Adam Leavitt |
| Soluble Part. in Dustfall (D1739mod) | BAL | 9854068 | 2025/01/03 | 2025/01/06 | Joseph-Noel Andres |
| Volume of Sample Received | | 9854061 | 2025/01/03 | 2025/01/03 | Adam Leavitt |

**Bureau Veritas ID:** AMHI79 Dup **Collected:** 2024/11/01
**Sample ID:** NOVEMBER DUP RICE LAKE DUSTFALL **Shipped:**
**Matrix:** Air **Received:** 2024/12/19

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Soluble Metals in Dustfall Filtrate | ICP1/MS | 9869686 | N/A | 2025/02/06 | Nan Raykha |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

| | |
|---|---|
| Package 1 | 1.3°C |

Sample AMHI76 [NOVEMBER BELL TOWERS DUSTFALL ] : Metals Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample AMHI78 [NOVEMBER RICE LAKE DUSTFALL] : Metals Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly

Sample AMHI79 [NOVEMBER DUP RICE LAKE DUSTFALL] : Metals Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

# QUALITY ASSURANCE REPORT



| | | | Matrix Spike | | SPIKED BLANK | | Method Blank | | RPD | | Reagent Blank | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits | Value | UNITS |
| 9854064 | Insoluble Particulate | 2025/01/04 | | | 99 | 85 - 115 | <1.0 | mg | | | | |
| 9854068 | Soluble Particulate | 2025/01/06 | | | 104 | 85 - 115 | <0.20 | mg | | | | |
| 9857176 | Soluble Aluminum (Al) | 2025/01/11 | 97 (1) | 70 - 130 | 94 | 85 - 115 | <0.040 | ug/mL | | | | |
| 9857176 | Soluble Antimony (Sb) | 2025/01/11 | 89 (1) | 70 - 130 | 89 | 85 - 115 | <0.0020 | ug/mL | | | | |
| 9857176 | Soluble Arsenic (As) | 2025/01/11 | 98 (1) | 70 - 130 | 97 | 85 - 115 | <0.0020 | ug/mL | | | | |
| 9857176 | Soluble Barium (Ba) | 2025/01/11 | 94 (1) | 70 - 130 | 95 | 85 - 115 | <0.0020 | ug/mL | | | | |
| 9857176 | Soluble Beryllium (Be) | 2025/01/11 | 99 (1) | 70 - 130 | 99 | 85 - 115 | <0.0012 | ug/mL | | | | |
| 9857176 | Soluble Bismuth (Bi) | 2025/01/11 | 93 (1) | 70 - 130 | 94 | 85 - 115 | <0.0020 | ug/mL | | | | |
| 9857176 | Soluble Boron (B) | 2025/01/11 | 93 (1) | 70 - 130 | 89 | 85 - 115 | <0.0080 | ug/mL | | | | |
| 9857176 | Soluble Cadmium (Cd) | 2025/01/11 | 94 (1) | 70 - 130 | 94 | 85 - 115 | <0.00040 | ug/mL | | | | |
| 9857176 | Soluble Calcium (Ca) | 2025/01/11 | 99 (1) | 70 - 130 | 96 | 85 - 115 | <0.10 | ug/mL | | | | |
| 9857176 | Soluble Chromium (Cr) | 2025/01/11 | 96 (1) | 70 - 130 | 97 | 85 - 115 | <0.0020 | ug/mL | | | | |
| 9857176 | Soluble Cobalt (Co) | 2025/01/11 | 98 (1) | 70 - 130 | 98 | 85 - 115 | <0.0012 | ug/mL | | | | |
| 9857176 | Soluble Copper (Cu) | 2025/01/11 | 99 (1) | 70 - 130 | 99 | 85 - 115 | <0.0012 | ug/mL | | | | |
| 9857176 | Soluble Iron (Fe) | 2025/01/11 | 97 (1) | 70 - 130 | 98 | 85 - 115 | <0.050 | ug/mL | | | | |
| 9857176 | Soluble Lead (Pb) | 2025/01/11 | 96 (1) | 70 - 130 | 97 | 85 - 115 | <0.0012 | ug/mL | | | | |
| 9857176 | Soluble Magnesium (Mg) | 2025/01/11 | 94 (1) | 70 - 130 | 96 | 85 - 115 | <0.020 | ug/mL | | | | |
| 9857176 | Soluble Manganese (Mn) | 2025/01/11 | 96 (1) | 70 - 130 | 98 | 85 - 115 | <0.0020 | ug/mL | | | | |
| 9857176 | Soluble Molybdenum (Mo) | 2025/01/11 | 91 (1) | 70 - 130 | 88 | 85 - 115 | <0.0012 | ug/mL | | | | |
| 9857176 | Soluble Nickel (Ni) | 2025/01/11 | 96 (1) | 70 - 130 | 98 | 85 - 115 | <0.0020 | ug/mL | | | | |
| 9857176 | Soluble Potassium (K) | 2025/01/11 | 98 (1) | 70 - 130 | 98 | 85 - 115 | <0.20 | ug/mL | | | | |
| 9857176 | Soluble Selenium (Se) | 2025/01/11 | 97 (1) | 70 - 130 | 96 | 85 - 115 | <0.0040 | ug/mL | | | | |
| 9857176 | Soluble Silver (Ag) | 2025/01/11 | 92 (1) | 70 - 130 | 92 | 85 - 115 | <0.00040 | ug/mL | | | | |
| 9857176 | Soluble Sodium (Na) | 2025/01/11 | 98 (1) | 70 - 130 | 98 | 85 - 115 | <0.10 | ug/mL | | | | |
| 9857176 | Soluble Strontium (Sr) | 2025/01/11 | 97 (1) | 70 - 130 | 98 | 85 - 115 | <0.0020 | ug/mL | | | | |
| 9857176 | Soluble Thallium (Tl) | 2025/01/11 | 97 (1) | 70 - 130 | 98 | 85 - 115 | <0.0020 | ug/mL | | | | |
| 9857176 | Soluble Tin (Sn) | 2025/01/11 | 88 (1) | 70 - 130 | 88 | 85 - 115 | <0.0012 | ug/mL | | | | |
| 9857176 | Soluble Titanium (Ti) | 2025/01/11 | 91 (1) | 70 - 130 | 88 | 85 - 115 | <0.0040 | ug/mL | | | | |
| 9857176 | Soluble Uranium (U) | 2025/01/11 | 95 (1) | 70 - 130 | 96 | 85 - 115 | <0.0010 | ug/mL | | | | |
| 9857176 | Soluble Vanadium (V) | 2025/01/11 | 97 (1) | 70 - 130 | 97 | 85 - 115 | <0.0012 | ug/mL | | | | |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)



| | | | Matrix Spike | | SPIKED BLANK | | Method Blank | | RPD | | Reagent Blank | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits | Value | UNITS |
| 9857176 | Soluble Zinc (Zn) | 2025/01/11 | 97 (1) | 70 - 130 | 97 | 85 - 115 | <0.020 | ug/mL | | | | |
| 9869686 | Soluble Aluminum (Al) | 2025/02/06 | 98 (2) | 70 - 130 | 95 | 85 - 115 | <0.040 | ug/mL | NC (3) | 20 | <0.040 | ug/mL |
| 9869686 | Soluble Antimony (Sb) | 2025/02/06 | 95 (2) | 70 - 130 | 93 | 85 - 115 | <0.0020 | ug/mL | NC (3) | 20 | <0.0020 | ug/mL |
| 9869686 | Soluble Arsenic (As) | 2025/02/06 | 101 (2) | 70 - 130 | 101 | 85 - 115 | <0.0020 | ug/mL | NC (3) | 20 | <0.0020 | ug/mL |
| 9869686 | Soluble Barium (Ba) | 2025/02/06 | 99 (2) | 70 - 130 | 97 | 85 - 115 | <0.0020 | ug/mL | 0.78 (3) | 20 | 0.0029, RDL=0.0020 | ug/mL |
| 9869686 | Soluble Beryllium (Be) | 2025/02/06 | 108 (2) | 70 - 130 | 105 | 85 - 115 | <0.0012 | ug/mL | NC (3) | 20 | <0.0012 | ug/mL |
| 9869686 | Soluble Bismuth (Bi) | 2025/02/06 | 98 (2) | 70 - 130 | 97 | 85 - 115 | <0.0020 | ug/mL | NC (3) | 20 | <0.0020 | ug/mL |
| 9869686 | Soluble Boron (B) | 2025/02/06 | 101 (2) | 70 - 130 | 97 | 85 - 115 | <0.0080 | ug/mL | NC (3) | 20 | <0.0080 | ug/mL |
| 9869686 | Soluble Cadmium (Cd) | 2025/02/06 | 98 (2) | 70 - 130 | 97 | 85 - 115 | <0.00040 | ug/mL | NC (3) | 20 | <0.00040 | ug/mL |
| 9869686 | Soluble Calcium (Ca) | 2025/02/06 | 102 (2) | 70 - 130 | 100 | 85 - 115 | <0.10 | ug/mL | 0.30 (3) | 20 | <0.10 | ug/mL |
| 9869686 | Soluble Chromium (Cr) | 2025/02/06 | 100 (2) | 70 - 130 | 99 | 85 - 115 | <0.0020 | ug/mL | NC (3) | 20 | <0.0020 | ug/mL |
| 9869686 | Soluble Cobalt (Co) | 2025/02/06 | 102 (2) | 70 - 130 | 102 | 85 - 115 | <0.0012 | ug/mL | NC (3) | 20 | <0.0012 | ug/mL |
| 9869686 | Soluble Copper (Cu) | 2025/02/06 | 104 (2) | 70 - 130 | 101 | 85 - 115 | <0.0012 | ug/mL | NC (3) | 20 | <0.0012 | ug/mL |
| 9869686 | Soluble Iron (Fe) | 2025/02/06 | 101 (2) | 70 - 130 | 100 | 85 - 115 | <0.050 | ug/mL | NC (3) | 20 | <0.050 | ug/mL |
| 9869686 | Soluble Lead (Pb) | 2025/02/06 | 101 (2) | 70 - 130 | 99 | 85 - 115 | <0.0012 | ug/mL | NC (3) | 20 | <0.0012 | ug/mL |
| 9869686 | Soluble Magnesium (Mg) | 2025/02/06 | 100 (2) | 70 - 130 | 101 | 85 - 115 | <0.020 | ug/mL | 4.6 (3) | 20 | <0.020 | ug/mL |
| 9869686 | Soluble Manganese (Mn) | 2025/02/06 | 100 (2) | 70 - 130 | 100 | 85 - 115 | <0.0020 | ug/mL | NC (3) | 20 | <0.0020 | ug/mL |
| 9869686 | Soluble Molybdenum (Mo) | 2025/02/06 | 95 (2) | 70 - 130 | 91 | 85 - 115 | <0.0012 | ug/mL | NC (3) | 20 | <0.0012 | ug/mL |
| 9869686 | Soluble Nickel (Ni) | 2025/02/06 | 101 (2) | 70 - 130 | 100 | 85 - 115 | <0.0020 | ug/mL | NC (3) | 20 | <0.0020 | ug/mL |
| 9869686 | Soluble Potassium (K) | 2025/02/06 | 102 (2) | 70 - 130 | 101 | 85 - 115 | <0.20 | ug/mL | NC (3) | 20 | <0.20 | ug/mL |
| 9869686 | Soluble Selenium (Se) | 2025/02/06 | 99 (2) | 70 - 130 | 98 | 85 - 115 | <0.0040 | ug/mL | NC (3) | 20 | <0.0040 | ug/mL |
| 9869686 | Soluble Silver (Ag) | 2025/02/06 | 97 (2) | 70 - 130 | 95 | 85 - 115 | <0.00040 | ug/mL | NC (3) | 20 | <0.00040 | ug/mL |
| 9869686 | Soluble Sodium (Na) | 2025/02/06 | 103 (2) | 70 - 130 | 102 | 85 - 115 | <0.10 | ug/mL | 1.9 (3) | 20 | <0.10 | ug/mL |
| 9869686 | Soluble Strontium (Sr) | 2025/02/06 | 96 (2) | 70 - 130 | 97 | 85 - 115 | <0.0020 | ug/mL | 5.1 (3) | 20 | <0.0020 | ug/mL |
| 9869686 | Soluble Thallium (Tl) | 2025/02/06 | 101 (2) | 70 - 130 | 99 | 85 - 115 | <0.0020 | ug/mL | NC (3) | 20 | <0.0020 | ug/mL |
| 9869686 | Soluble Tin (Sn) | 2025/02/06 | 96 (2) | 70 - 130 | 92 | 85 - 115 | <0.0012 | ug/mL | NC (3) | 20 | <0.0012 | ug/mL |
| 9869686 | Soluble Titanium (Ti) | 2025/02/06 | 96 (2) | 70 - 130 | 92 | 85 - 115 | <0.0040 | ug/mL | NC (3) | 20 | <0.0040 | ug/mL |
| 9869686 | Soluble Uranium (U) | 2025/02/06 | 101 (2) | 70 - 130 | 99 | 85 - 115 | <0.0010 | ug/mL | NC (3) | 20 | <0.0010 | ug/mL |
| 9869686 | Soluble Vanadium (V) | 2025/02/06 | 100 (2) | 70 - 130 | 99 | 85 - 115 | <0.0012 | ug/mL | NC (3) | 20 | <0.0012 | ug/mL |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)



| | | | Matrix Spike | | SPIKED BLANK | | Method Blank | | RPD | | Reagent Blank | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits | Value | UNITS |
| 9869686 | Soluble Zinc (Zn) | 2025/02/06 | 100 (2) | 70 - 130 | 100 | 85 - 115 | <0.020 | ug/mL | NC (3) | 20 | <0.020 | ug/mL |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Reagent Blank: A blank matrix containing all reagents used in the analytical procedure. Used to determine any analytical contamination.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Matrix Spike Parent ID [AMHI76-01]

(2) Matrix Spike Parent ID [AMHI79-01]

(3) Duplicate Parent ID [AMHI79-01]



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4BN961
Report Date: 2025/02/10

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

C4BN961
2024/12/19 17:07

AIR

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CAM FCD-01302 /3

BUREAU VERITAS
6740 Campobello Rd
Mississauga Ontario, L5N 2L8
www.bvlabs.com
Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

CH



**CLIENT INFORMATION**

Company Name: Kinross / WSP Canada Inc.
Project Manager: Ryan Fletcher
e-mail: See comments below for email list
Address: 19 Young Street, Red Lake, ON, CA, P0V 2M0
Phone: 1 647-283-4638 Fax:
Sampled by: JM + CB + EM + AP

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Run Time | Dust Fall Opening (Inner Diameter) | Dust Fall Opening (Outer Diameter) | Silica | PM 10 | PM 2.5 | Dustfall | TSP | Metals | Mercury | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| November Bell Towers Dustfall | | | NOV 1 2024 | NOV 1 - DEC 5 | 4 INCH | 4.25 INCH | | | | X | | X | | | | | |
| November Teardrop Dustfall | | | NOV 1 2024 | NOV 1 - DEC 5 | 4 INCH | 4.25 INCH | | | | X | | X | | | | | |
| November Rice Lake Dustfall | | | NOV 1 2024 | NOV 1 - DEC 5 | 4 INCH | 4.25 INCH | | | | X | | X | | | | | |
| November Dup Rice Lake Dustfall | | | NOV 1 2024 | NOV 1 - DEC 5 | 4 INCH | 4.25 INCH | | | | X | | X | | | | | |
| | | | | | | | | | | | | | | | | | |
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**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: CA0031272.9242
Name: Kinross Project
PO #: P104312CA001
BV Quote #:
BV Contact: Crisitina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: GBR_Enviro@kinross.com; importer@kinrossgreatbear.ehsdata.com; ryan.fletcher@wsp.com; airgroup@woodplc.com and include a .csv file in MonitorPro format***

Client Signature: SC
Affiliation: Kinross
Date/Time: 2024-12-16

Received by:
Affiliation:
Date/Time:

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions*

Your P.O. #: P104312CA001
Your Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your C.O.C. #: N/A

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2025/01/29**
Report #: R8477556
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C504706**
**Received: 2025/01/16, 09:17**

Sample Matrix: Water
# Samples Received: 4

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Mercury in Water by CVAA | 4 | 2025/01/27 | 2025/01/27 | CAM SOP-00453 | EPA 7470A m |
| Total Metals Analysis by ICPMS | 3 | 2025/01/22 | 2025/01/22 | CAM SOP-00447 | EPA 6020B m |
| Total Metals Analysis by ICPMS | 1 | 2025/01/22 | 2025/01/23 | CAM SOP-00447 | EPA 6020B m |
| Insoluble Part. in Dustfall (D1739mod) | 4 | 2025/01/21 | 2025/01/23 | BRL SOP-00121 | ASTM D1739 m |
| Soluble Part. in Dustfall (D1739mod) | 4 | 2025/01/21 | 2025/01/24 | BRL SOP-00121 | ASTM D1739 m |
| Volume of Sample Received | 4 | 2025/01/21 | 2025/01/21 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

Your P.O. #: P104312CA001
Your Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your C.O.C. #: N/A

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2025/01/29**
Report #: R8477556
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C504706**
**Received: 2025/01/16, 09:17**

Encryption Key

Cristina (Maria) Bacchus
Project Manager
29 Jan 2025 08:33:43

Please direct all questions regarding this Certificate of Analysis to:
Julian Tong, Project Manager Assistant
Email: Julian.Tong@bureauveritas.com
Phone# (905) 817-5700

==========

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C504706
Report Date: 2025/01/29

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | ANFU19 | ANFU20 | ANFU21 | ANFU22 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/01/12 | 2025/01/12 | 2025/01/12 | 2025/01/12 | | |
| COC Number | | N/A | N/A | N/A | N/A | | |
| | UNITS | DECEMBER RICE DUPLICATE 2024 | DECEMBER RICE 2024 | DECEMBER TEARDROP 2024 | DECEMBER BELL TOWERS 2024 | RDL | QC Batch |
| Insoluble Particulate | mg | <2.0 (1) | <2.0 (1) | 11.4 (1) | <2.0 (1) | 2.0 | 9862507 |
| Soluble Particulate | mg | <4.0 (1) | 9.6 (1) | 11.6 (1) | 4.0 (1) | 4.0 | 9862512 |
| **Charge/Prep Analysis** | | | | | | | |
| Volume of sample | ml | 240 | 280 | 210 | 37 | 1 | 9862505 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) 50% of sample volume was processed for dustfall; remaining 50% of sample volume was sent to Inorganic Processing for further metals and Hg analysis.
Results and DL were multiplied by 2.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C504706
Report Date: 2025/01/29

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

| Bureau Veritas ID | | ANFU19 | ANFU20 | ANFU21 | ANFU22 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/01/12 | 2025/01/12 | 2025/01/12 | 2025/01/12 | | |
| COC Number | | N/A | N/A | N/A | N/A | | |
| | UNITS | DECEMBER RICE DUPLICATE 2024 | DECEMBER RICE 2024 | DECEMBER TEARDROP 2024 | DECEMBER BELL TOWERS 2024 | RDL | QC Batch |
| **Metals** | | | | | | | |
| Mercury (Hg) | mg/L | <0.00010 | <0.00010 | <0.00010 | <0.00010 | 0.00010 | 9865467 |
| Total Aluminum (Al) | ug/L | 11 | 23 | 220 | 8.0 | 4.9 | 9862994 |
| Total Antimony (Sb) | ug/L | 2.6 | 3.6 | 1.7 | 1.6 | 0.50 | 9862994 |
| Total Arsenic (As) | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9862994 |
| Total Barium (Ba) | ug/L | <2.0 | <2.0 | 240 | <2.0 | 2.0 | 9862994 |
| Total Beryllium (Be) | ug/L | <0.40 | <0.40 | <0.40 | <0.40 | 0.40 | 9862994 |
| Total Bismuth (Bi) | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9862994 |
| Total Boron (B) | ug/L | <10 | <10 | <10 | <10 | 10 | 9862994 |
| Total Cadmium (Cd) | ug/L | <0.090 | <0.090 | <0.090 | <0.090 | 0.090 | 9862994 |
| Total Calcium (Ca) | ug/L | <200 | <200 | 2700 | <200 | 200 | 9862994 |
| Total Chromium (Cr) | ug/L | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 9862994 |
| Total Cobalt (Co) | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9862994 |
| Total Copper (Cu) | ug/L | <0.90 | <0.90 | 3.9 | <0.90 | 0.90 | 9862994 |
| Total Iron (Fe) | ug/L | <100 | <100 | 230 | <100 | 100 | 9862994 |
| Total Lead (Pb) | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9862994 |
| Total Lithium (Li) | ug/L | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 9862994 |
| Total Magnesium (Mg) | ug/L | <50 | <50 | 160 | <50 | 50 | 9862994 |
| Total Manganese (Mn) | ug/L | 2.0 | <2.0 | 8.1 | <2.0 | 2.0 | 9862994 |
| Total Molybdenum (Mo) | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9862994 |
| Total Nickel (Ni) | ug/L | <1.0 | <1.0 | 1.1 | <1.0 | 1.0 | 9862994 |
| Total Potassium (K) | ug/L | <200 | <200 | <200 | <200 | 200 | 9862994 |
| Total Selenium (Se) | ug/L | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 9862994 |
| Total Silicon (Si) | ug/L | <50 | <50 | 360 | 53 | 50 | 9862994 |
| Total Silver (Ag) | ug/L | <0.090 | <0.090 | <0.090 | <0.090 | 0.090 | 9862994 |
| Total Sodium (Na) | ug/L | <100 | 100 | 8500 | 220 | 100 | 9862994 |
| Total Strontium (Sr) | ug/L | <1.0 | <1.0 | 5.1 | <1.0 | 1.0 | 9862994 |
| Total Tellurium (Te) | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9862994 |
| Total Thallium (Tl) | ug/L | <0.050 | <0.050 | <0.050 | <0.050 | 0.050 | 9862994 |
| Total Tin (Sn) | ug/L | <1.0 | <1.0 | 8.5 | 1.0 | 1.0 | 9862994 |
| Total Titanium (Ti) | ug/L | <5.0 | <5.0 | 14 | <5.0 | 5.0 | 9862994 |
| Total Tungsten (W) | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9862994 |
| Total Uranium (U) | ug/L | <0.10 | <0.10 | <0.10 | <0.10 | 0.10 | 9862994 |
| Total Vanadium (V) | ug/L | <0.50 | <0.50 | 0.55 | <0.50 | 0.50 | 9862994 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C504706
Report Date: 2025/01/29

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

| Bureau Veritas ID | | ANFU19 | ANFU20 | ANFU21 | ANFU22 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/01/12 | 2025/01/12 | 2025/01/12 | 2025/01/12 | | |
| COC Number | | N/A | N/A | N/A | N/A | | |
| | UNITS | DECEMBER RICE DUPLICATE 2024 | DECEMBER RICE 2024 | DECEMBER TEARDROP 2024 | DECEMBER BELL TOWERS 2024 | RDL | QC Batch |
| Total Zinc (Zn) | ug/L | <5.0 | 5.4 | 130 | <5.0 | 5.0 | 9862994 |
| Total Zirconium (Zr) | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9862994 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## GENERAL COMMENTS

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C504706
Report Date: 2025/01/29

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9862507 | ALT | Spiked Blank | Insoluble Particulate | 2025/01/23 | | 100 | % | 85 - 115 |
| 9862507 | ALT | Method Blank | Insoluble Particulate | 2025/01/23 | <1.0 | | mg | |
| 9862512 | JNA | Spiked Blank | Soluble Particulate | 2025/01/24 | | 103 | % | 85 - 115 |
| 9862512 | JNA | Method Blank | Soluble Particulate | 2025/01/24 | <0.20 | | mg | |
| 9862994 | IHP | Matrix Spike | Total Aluminum (Al) | 2025/01/22 | | NC | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/01/22 | | 100 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/01/22 | | 98 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/01/22 | | 102 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/01/22 | | 100 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/01/22 | | 95 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/01/22 | | 98 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/01/22 | | 97 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/01/22 | | NC | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/01/22 | | 93 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/01/22 | | 96 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/01/22 | | 90 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/01/22 | | 102 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/01/22 | | 90 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/01/22 | | 100 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/01/22 | | 105 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/01/22 | | 111 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/01/22 | | 93 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/01/22 | | 93 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/01/22 | | 106 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/01/22 | | 100 | % | 80 - 120 |
| | | | Total Silicon (Si) | 2025/01/22 | | 122 (1) | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/01/22 | | 92 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/01/22 | | NC | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/01/22 | | NC | % | 80 - 120 |
| | | | Total Tellurium (Te) | 2025/01/22 | | 91 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/01/22 | | 93 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/01/22 | | 97 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/01/22 | | NC | % | 80 - 120 |
| | | | Total Tungsten (W) | 2025/01/22 | | 95 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/01/22 | | 96 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/01/22 | | 97 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/01/22 | | 99 | % | 80 - 120 |
| | | | Total Zirconium (Zr) | 2025/01/22 | | 100 | % | 80 - 120 |
| 9862994 | IHP | Spiked Blank | Total Aluminum (Al) | 2025/01/22 | | 98 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/01/22 | | 97 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/01/22 | | 97 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/01/22 | | 94 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/01/22 | | 99 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/01/22 | | 96 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/01/22 | | 95 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/01/22 | | 96 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/01/22 | | 98 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/01/22 | | 91 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/01/22 | | 95 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/01/22 | | 89 | % | 80 - 120 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Iron (Fe) | 2025/01/22 | | 96 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/01/22 | | 91 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/01/22 | | 97 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/01/22 | | 96 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/01/22 | | 95 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/01/22 | | 90 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/01/22 | | 94 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/01/22 | | 98 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/01/22 | | 103 | % | 80 - 120 |
| | | | Total Silicon (Si) | 2025/01/22 | | 92 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/01/22 | | 92 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/01/22 | | 95 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/01/22 | | 96 | % | 80 - 120 |
| | | | Total Tellurium (Te) | 2025/01/22 | | 94 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/01/22 | | 95 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/01/22 | | 95 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/01/22 | | 95 | % | 80 - 120 |
| | | | Total Tungsten (W) | 2025/01/22 | | 94 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/01/22 | | 94 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/01/22 | | 95 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/01/22 | | 101 | % | 80 - 120 |
| | | | Total Zirconium (Zr) | 2025/01/22 | | 96 | % | 80 - 120 |
| 9862994 | IHP | Method Blank | Total Aluminum (Al) | 2025/01/22 | <4.9 | | ug/L | |
| | | | Total Antimony (Sb) | 2025/01/22 | <0.50 | | ug/L | |
| | | | Total Arsenic (As) | 2025/01/22 | <1.0 | | ug/L | |
| | | | Total Barium (Ba) | 2025/01/22 | <2.0 | | ug/L | |
| | | | Total Beryllium (Be) | 2025/01/22 | <0.40 | | ug/L | |
| | | | Total Bismuth (Bi) | 2025/01/22 | <1.0 | | ug/L | |
| | | | Total Boron (B) | 2025/01/22 | <10 | | ug/L | |
| | | | Total Cadmium (Cd) | 2025/01/22 | <0.090 | | ug/L | |
| | | | Total Calcium (Ca) | 2025/01/22 | <200 | | ug/L | |
| | | | Total Chromium (Cr) | 2025/01/22 | <5.0 | | ug/L | |
| | | | Total Cobalt (Co) | 2025/01/22 | <0.50 | | ug/L | |
| | | | Total Copper (Cu) | 2025/01/22 | <0.90 | | ug/L | |
| | | | Total Iron (Fe) | 2025/01/22 | <100 | | ug/L | |
| | | | Total Lead (Pb) | 2025/01/22 | <0.50 | | ug/L | |
| | | | Total Lithium (Li) | 2025/01/22 | <5.0 | | ug/L | |
| | | | Total Magnesium (Mg) | 2025/01/22 | <50 | | ug/L | |
| | | | Total Manganese (Mn) | 2025/01/22 | <2.0 | | ug/L | |
| | | | Total Molybdenum (Mo) | 2025/01/22 | <0.50 | | ug/L | |
| | | | Total Nickel (Ni) | 2025/01/22 | <1.0 | | ug/L | |
| | | | Total Potassium (K) | 2025/01/22 | <200 | | ug/L | |
| | | | Total Selenium (Se) | 2025/01/22 | <2.0 | | ug/L | |
| | | | Total Silicon (Si) | 2025/01/22 | <50 | | ug/L | |
| | | | Total Silver (Ag) | 2025/01/22 | <0.090 | | ug/L | |
| | | | Total Sodium (Na) | 2025/01/22 | <100 | | ug/L | |
| | | | Total Strontium (Sr) | 2025/01/22 | <1.0 | | ug/L | |
| | | | Total Tellurium (Te) | 2025/01/22 | <1.0 | | ug/L | |
| | | | Total Thallium (Tl) | 2025/01/22 | <0.050 | | ug/L | |
| | | | Total Tin (Sn) | 2025/01/22 | <1.0 | | ug/L | |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Titanium (Ti) | 2025/01/22 | <5.0 | | ug/L | |
| | | | Total Tungsten (W) | 2025/01/22 | <1.0 | | ug/L | |
| | | | Total Uranium (U) | 2025/01/22 | <0.10 | | ug/L | |
| | | | Total Vanadium (V) | 2025/01/22 | <0.50 | | ug/L | |
| | | | Total Zinc (Zn) | 2025/01/22 | <5.0 | | ug/L | |
| | | | Total Zirconium (Zr) | 2025/01/22 | <1.0 | | ug/L | |
| 9862994 | IHP | RPD | Total Aluminum (Al) | 2025/01/22 | 5.5 | | % | 20 |
| | | | Total Antimony (Sb) | 2025/01/22 | NC | | % | 20 |
| | | | Total Arsenic (As) | 2025/01/22 | 12 | | % | 20 |
| | | | Total Cadmium (Cd) | 2025/01/22 | NC | | % | 20 |
| | | | Total Chromium (Cr) | 2025/01/22 | 7.4 | | % | 20 |
| | | | Total Cobalt (Co) | 2025/01/22 | 2.2 | | % | 20 |
| | | | Total Copper (Cu) | 2025/01/22 | 1.8 | | % | 20 |
| | | | Total Lead (Pb) | 2025/01/22 | 3.2 | | % | 20 |
| | | | Total Manganese (Mn) | 2025/01/22 | 4.0 | | % | 20 |
| | | | Total Molybdenum (Mo) | 2025/01/22 | 6.8 | | % | 20 |
| | | | Total Nickel (Ni) | 2025/01/22 | 4.1 | | % | 20 |
| | | | Total Selenium (Se) | 2025/01/22 | NC | | % | 20 |
| | | | Total Silver (Ag) | 2025/01/22 | NC | | % | 20 |
| | | | Total Tin (Sn) | 2025/01/22 | NC | | % | 20 |
| | | | Total Titanium (Ti) | 2025/01/22 | 4.2 | | % | 20 |
| | | | Total Zinc (Zn) | 2025/01/22 | 3.4 | | % | 20 |
| 9865467 | M3K | Matrix Spike | Mercury (Hg) | 2025/01/27 | | 104 | % | 75 - 125 |
| 9865467 | M3K | Spiked Blank | Mercury (Hg) | 2025/01/27 | | 105 | % | 80 - 120 |
| 9865467 | M3K | Method Blank | Mercury (Hg) | 2025/01/27 | <0.00010 | | mg/L | |
| 9865467 | M3K | RPD | Mercury (Hg) | 2025/01/27 | NC | | % | 20 |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C504706
Report Date: 2025/01/29

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Louise Harding, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: CA-EI-C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: N/A

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/03/20**
Report #: R8074247
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C469688**
**Received: 2024/03/07, 09:34**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | 3 | 2024/03/18 | 2024/03/18 | BRL SOP-00121 | ASTM D1739 m |
| Soluble Part. in Dustfall (D1739mod) | 3 | 2024/03/18 | 2024/03/20 | BRL SOP-00121 | ASTM D1739 m |
| Volume of Sample Received | 3 | 2024/03/18 | 2024/03/18 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: CA-EI-C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: N/A

**Attention: Kinross Project**

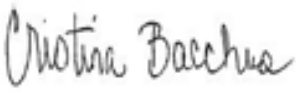
WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/03/20**
Report #: R8074247
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C469688**
**Received: 2024/03/07, 09:34**

Encryption Key



Cristina (Maria) Bacchus
Project Manager
20 Mar 2024 19:57:29

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763
==========
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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C469688
Report Date: 2024/03/20

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: CA-EI-C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | YON336 | YON337 | | YON338 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/03/02 | 2024/03/02 | | 2024/03/02 | | |
| | UNITS | FEBRUARY BELL TOWERS DUSTFALL | FEBRUARY TEARDROP DUSTFALL | RDL | FEBRUARY TOTE ROAD DUSTFALL | RDL | QC Batch |
| Insoluble Particulate | mg | 1.5 | <1.0 | 1.0 | 2.0 | 1.0 | 9280408 |
| Soluble Particulate | mg | <1.8 | 3.0 | 1.8 | <1.9 | 1.9 | 9280412 |
| **Charge/Prep Analysis** | | | | | | | |
| Volume of sample | ml | 490 | 400 | 1 | 620 | 1 | 9280407 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Bureau Veritas Job #: C469688
Report Date: 2024/03/20

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: CA-EI-C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** YON336 **Collected:** 2024/03/02
**Sample ID:** FEBRUARY BELL TOWERS DUSTFALL **Shipped:**
**Matrix:** Water **Received:** 2024/03/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 9280408 | 2024/03/18 | 2024/03/18 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 9280412 | 2024/03/18 | 2024/03/20 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 9280407 | 2024/03/18 | 2024/03/18 | Mohammad Wahidul Alam |

**Bureau Veritas ID:** YON337 **Collected:** 2024/03/02
**Sample ID:** FEBRUARY TEARDROP DUSTFALL **Shipped:**
**Matrix:** Water **Received:** 2024/03/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 9280408 | 2024/03/18 | 2024/03/18 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 9280412 | 2024/03/18 | 2024/03/20 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 9280407 | 2024/03/18 | 2024/03/18 | Mohammad Wahidul Alam |

**Bureau Veritas ID:** YON338 **Collected:** 2024/03/02
**Sample ID:** FEBRUARY TOTE ROAD DUSTFALL **Shipped:**
**Matrix:** Water **Received:** 2024/03/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 9280408 | 2024/03/18 | 2024/03/18 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 9280412 | 2024/03/18 | 2024/03/20 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 9280407 | 2024/03/18 | 2024/03/18 | Mohammad Wahidul Alam |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C469688
Report Date: 2024/03/20

## QUALITY ASSURANCE REPORT

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: CA-EI-C026300307
Sampler Initials: JM

| | | | SPIKED BLANK | | Method Blank | |
|---|---|---|---|---|---|---|
| **QC Batch** | **Parameter** | **Date** | **% Recovery** | **QC Limits** | **Value** | **UNITS** |
| 9280408 | Insoluble Particulate | 2024/03/18 | 100 | 85 - 115 | <1.0 | mg |
| 9280412 | Soluble Particulate | 2024/03/20 | 97 | 85 - 115 | <0.20 | mg |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



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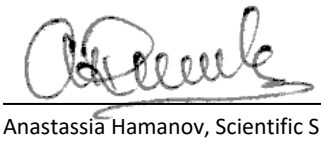
Bureau Veritas Job #: C469688
Report Date: 2024/03/20

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: CA-EI-C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

AIR

CAM FCD-01302 /3

BUREAU VERITAS

6740 Campobello Rd
Mississauga Ontario ,L5N 2L8
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / WSP E&I Canada
Project Manager: Ryan Fletcher
e-mail: See comments below for email list
Address: 19 Young Street,
Red Lake, ON, CA, P0V 2M0
Phone: 1 647-283-4638 Fax:
Sampled by: JM + CB + EM + AP

**SECTION**

**ANALYSIS REQUESTED**

07-Mar-24 09:34
Gina Baybayan
C469688

RUK AIR-RmTmp

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Run Time | Dust Fall Opening (Inner Diameter | Dust Fall Opening (Outer Diameter | Silica | PM 10 | PM 2.5 | Dustfall | TSP | Metals | Mercury |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| February Bell Towers Dustfall | | | Feb 2 - Mar 2 | 29 Days | 5.5" | 6.5" | | | | X | | | |
| February Teardrop Dustfall | | | Feb 2 - Mar 2 | 29 Days | 5.5" | 6.5" | | | | X | | | |
| February Tote Road Dustfall | | | Feb 2 - Mar 2 | 29 Days | 5.5" | 6.5" | | | | X | | | |
| February 6th TSP Bell Towers | | N/A | 6-Feb | 22.37 | | | | | | | X | X | X |
| February 12th TSP Bell Towers | | 44 | 12-Feb | 22.35 | | | | | | | X | X | X |
| February 18th TSP Bell Towers | | 44 | 18-Feb | 23.16 | | | | | | | X | X | X |
| February 24th TSP Bell Towers | | 44 | 24-Feb | 23.05 | | | | | | | X | X | X |
| March 1st TSP Bell Towers | | 44 | 1-Mar | 24.36 | | | | | | | X | X | X |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2303.2023D.100
Name: Kinross Project
PO #: CA-EI-C026300307
BV Quote #:
BV Contact: Jade Browne

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; ryan.fletcher@wsp.com; airgroup@woodplc.com; emily.meek@kinross.com; aaron.peloquin@kinross.com; curtis.bloemberg@kinross.com***

Client Signature: CB
Affiliation: Kinross
Date/Time: 3/4/2024

Received by: SAM SUCAN SAMAN
Affiliation:
Date/Time: 2024/03/07 00:24

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions*

14 / 14 / 14

Your P.O. #: CA-EI-C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: N/A

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/03/20**
Report #: R8074247
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C469688**
**Received: 2024/03/07, 09:34**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | 3 | 2024/03/18 | 2024/03/18 | BRL SOP-00121 | ASTM D1739 m |
| Soluble Part. in Dustfall (D1739mod) | 3 | 2024/03/18 | 2024/03/20 | BRL SOP-00121 | ASTM D1739 m |
| Volume of Sample Received | 3 | 2024/03/18 | 2024/03/18 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

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Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

Your P.O. #: CA-EI-C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: N/A

**Attention: Kinross Project**

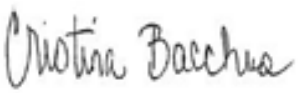
WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/03/20**
Report #: R8074247
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C469688**
**Received: 2024/03/07, 09:34**

Encryption Key



Cristina (Maria) Bacchus
Project Manager
20 Mar 2024 19:57:32

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763
==========
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Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C469688
Report Date: 2024/03/20

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: CA-EI-C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | YON336 | YON337 | | YON338 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/03/02 | 2024/03/02 | | 2024/03/02 | | |
| COC Number | | N/A | N/A | | N/A | | |
| | UNITS | FEBRUARY BELL TOWERS DUSTFALL | FEBRUARY TEARDROP DUSTFALL | RDL | FEBRUARY TOTE ROAD DUSTFALL | RDL | QC Batch |
| | | | | | | | |
| Insoluble Particulate | mg | 1.5 | <1.0 | 1.0 | 2.0 | 1.0 | 9280408 |
| Soluble Particulate | mg | <1.8 | 3.0 | 1.8 | <1.9 | 1.9 | 9280412 |
| **Charge/Prep Analysis** | | | | | | | |
| Volume of sample | ml | 490 | 400 | 1 | 620 | 1 | 9280407 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C469688
Report Date: 2024/03/20

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: CA-EI-C026300307
Sampler Initials: JM

## GENERAL COMMENTS

**Results relate only to the items tested.**



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Bureau Veritas Job #: C469688
Report Date: 2024/03/20

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: CA-EI-C026300307
Sampler Initials: JM

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9280408 | MOW | Spiked Blank | Insoluble Particulate | 2024/03/18 | | 100 | % | 85 - 115 |
| 9280408 | MOW | Method Blank | Insoluble Particulate | 2024/03/18 | <1.0 | | mg | |
| 9280412 | MOW | Spiked Blank | Soluble Particulate | 2024/03/20 | | 97 | % | 85 - 115 |
| 9280412 | MOW | Method Blank | Soluble Particulate | 2024/03/20 | <0.20 | | mg | |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



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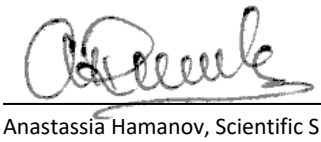
Report Date: 2024/03/20

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: CA-EI-C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

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Your P.O. #: EICAC026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PORJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/04/25**
Report #: R8122531
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4A0940**
**Received: 2024/04/05, 09:00**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | 3 | 2024/04/19 | 2024/04/22 | BRL SOP-00121 | ASTM D1739 m |
| Soluble Part. in Dustfall (D1739mod) | 3 | 2024/04/19 | 2024/04/23 | BRL SOP-00121 | ASTM D1739 m |
| Volume of Sample Received | 3 | 2024/04/19 | 2024/04/19 | | |

**Remarks:**

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Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: EICAC026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PORJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/04/25**
Report #: R8122531
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4A0940**
**Received: 2024/04/05, 09:00**

Encryption Key

Cristina (Maria) Bacchus
Project Manager
25 Apr 2024 16:03:42

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4A0940
Report Date: 2024/04/25

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PORJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | YUZ158 | | YUZ159 | | YUZ160 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/04/01 | | 2024/04/01 | | 2024/04/01 | | |
| COC Number | | n/a | | n/a | | n/a | | |
| | UNITS | MARCH BELL TOWERS DUSTFALL | RDL | MARCH TEARDROP DUSTFALL | RDL | MARCH TOTE ROAD DUSTFALL | RDL | QC Batch |
| | | | | | | | | |
| Insoluble Particulate | mg | 4.2 | 1.3 | 2.9 | 1.6 | 4.8 | 1.3 | 9344075 |
| Soluble Particulate | mg | 3.0 | 1.4 | 3.0 | 1.0 | 4.2 | 1.4 | 9344076 |
| **Charge/Prep Analysis** | | | | | | | | |
| Volume of sample | ml | 420 | 1 | 260 | 1 | 450 | 1 | 9353173 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Bureau Veritas Job #: C4A0940
Report Date: 2024/04/25

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PORJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** YUZ158 **Collected:** 2024/04/01
**Sample ID:** MARCH BELL TOWERS DUSTFALL **Shipped:**
**Matrix:** Water **Received:** 2024/04/05

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 9344075 | 2024/04/19 | 2024/04/22 | Joseph-Noel Andres |
| Soluble Part. in Dustfall (D1739mod) | BAL | 9344076 | 2024/04/19 | 2024/04/23 | Joseph-Noel Andres |
| Volume of Sample Received | | 9353173 | 2024/04/19 | 2024/04/19 | Joseph-Noel Andres |

**Bureau Veritas ID:** YUZ159 **Collected:** 2024/04/01
**Sample ID:** MARCH TEARDROP DUSTFALL **Shipped:**
**Matrix:** Water **Received:** 2024/04/05

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 9344075 | 2024/04/19 | 2024/04/22 | Joseph-Noel Andres |
| Soluble Part. in Dustfall (D1739mod) | BAL | 9344076 | 2024/04/19 | 2024/04/23 | Joseph-Noel Andres |
| Volume of Sample Received | | 9353173 | 2024/04/19 | 2024/04/19 | Joseph-Noel Andres |

**Bureau Veritas ID:** YUZ160 **Collected:** 2024/04/01
**Sample ID:** MARCH TOTE ROAD DUSTFALL **Shipped:**
**Matrix:** Water **Received:** 2024/04/05

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 9344075 | 2024/04/19 | 2024/04/22 | Joseph-Noel Andres |
| Soluble Part. in Dustfall (D1739mod) | BAL | 9344076 | 2024/04/19 | 2024/04/23 | Joseph-Noel Andres |
| Volume of Sample Received | | 9353173 | 2024/04/19 | 2024/04/19 | Joseph-Noel Andres |



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Bureau Veritas Job #: C4A0940
Report Date: 2024/04/25

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PORJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

| | |
|---|---|
| Package 1 | 13.3°C |

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4A0940
Report Date: 2024/04/25

## QUALITY ASSURANCE REPORT

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PORJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

| | | | SPIKED BLANK | | Method Blank | |
|---|---|---|---|---|---|---|
| **QC Batch** | **Parameter** | **Date** | **% Recovery** | **QC Limits** | **Value** | **UNITS** |
| 9344075 | Insoluble Particulate | 2024/04/22 | 98 | 85 - 115 | <1.0 | mg |
| 9344076 | Soluble Particulate | 2024/04/23 | 103 | 85 - 115 | <0.20 | mg |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



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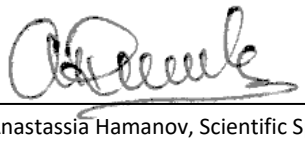
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4A0940
Report Date: 2024/04/25

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PORJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

05-Apr-24 09:00

Gina Baybayan

C4A0940

RUK AIR-RmTmp

CAM FCD-01302 /3

6740 Campobello Rd
Mississauga Ontario ,L5N 2L8
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / WSP E&I Canada
Project Manager: Ryan Fletcher
e-mail: See comments below for email list
Address: 19 Young Street,
Red Lake, ON, CA, P0V 2M0
Phone: 1 647-283-4638 Fax:
Sampled by: JM + CB + EM + AP

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Run Time | Dust Fall Opening (Inner Diameter | Dust Fall Opening (Outer Diameter | Silica | PM 10 | PM 2.5 | Dustfall | TSP | Metals | Mercury | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| March Bell Towers Dustfall | | | Mar 2 - April 1 | 30 Days | 5.5" | 6.5" | | | | X | | X | | | | | | |
| March Teardrop Dustfall | | | Mar 2 - April 1 | 30 Days | 5.5" | 6.5" | | | | X | | X | | | | | | |
| March Tote Road Dustfall | | | Mar 2 - April 1 | 30 Days | 5.5" | 6.5" | | | | X | | X | | | | | | |
| March 7th TSP Bell Towers | | N/A | 7-Mar | 23.59 | | | | | | | X | X | X | | | | | |
| March 13th TSP Bell Towers | | 44 | 13-Mar | 24.33 | | | | | | | X | X | X | | | | | |
| March 19th TSP Bell Towers | | 44 | 19-Mar | 22.92 | | | | | | | X | X | X | | | | | |
| March 25th TSP Bell Towers | | N/A | 25-Mar | 22.92 | | | | | | | X | X | X | | | | | |
| March 31st TSP Bell Towers | | 44 | 31-Mar | 22.6 | | | | | | | X | X | X | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2303.2023D.100
Name: Kinross Project
PO #: EICAC026300307
BV Quote #:
BV Contact: Jade Browne

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; ryan.fletcher@wsp.com; airgroup@woodplc.com; emily.meek@kinross.com; aaron.peloquin@kinross.com; curtis.bloemberg@kinross.com***

Client Signature: CB
Affiliation: Kinross
Date/Time: 4/2/2024

Received by: SUCRIT SALVAN
Affiliation:
Date/Time: 2024/04/05 09:00

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions*

B / 14 / 13

Your P.O. #: EICAC026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PORJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/04/25**
Report #: R8122531
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4A0940**
**Received: 2024/04/05, 09:00**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | 3 | 2024/04/19 | 2024/04/22 | BRL SOP-00121 | ASTM D1739 m |
| Soluble Part. in Dustfall (D1739mod) | 3 | 2024/04/19 | 2024/04/23 | BRL SOP-00121 | ASTM D1739 m |
| Volume of Sample Received | 3 | 2024/04/19 | 2024/04/19 | | |

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Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

Your P.O. #: EICAC026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PORJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/04/25**
Report #: R8122531
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4A0940**
**Received: 2024/04/05, 09:00**

Encryption Key

Cristina (Maria) Bacchus
Project Manager
25 Apr 2024 16:03:44

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4A0940
Report Date: 2024/04/25

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PORJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | YUZ158 | | YUZ159 | | YUZ160 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/04/01 | | 2024/04/01 | | 2024/04/01 | | |
| COC Number | | n/a | | n/a | | n/a | | |
| | UNITS | MARCH BELL TOWERS DUSTFALL | RDL | MARCH TEARDROP DUSTFALL | RDL | MARCH TOTE ROAD DUSTFALL | RDL | QC Batch |
| | | | | | | | | |
| Insoluble Particulate | mg | 4.2 | 1.3 | 2.9 | 1.6 | 4.8 | 1.3 | 9344075 |
| Soluble Particulate | mg | 3.0 | 1.4 | 3.0 | 1.0 | 4.2 | 1.4 | 9344076 |
| **Charge/Prep Analysis** | | | | | | | | |
| Volume of sample | ml | 420 | 1 | 260 | 1 | 450 | 1 | 9353173 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Bureau Veritas Job #: C4A0940
Report Date: 2024/04/25

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PORJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4A0940
Report Date: 2024/04/25

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PORJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9344075 | JNA | Spiked Blank | Insoluble Particulate | 2024/04/22 | | 98 | % | 85 - 115 |
| 9344075 | JNA | Method Blank | Insoluble Particulate | 2024/04/22 | <1.0 | | mg | |
| 9344076 | JNA | Spiked Blank | Soluble Particulate | 2024/04/23 | | 103 | % | 85 - 115 |
| 9344076 | JNA | Method Blank | Soluble Particulate | 2024/04/23 | <0.20 | | mg | |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



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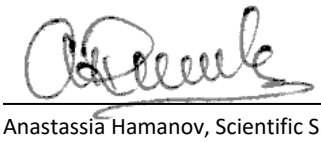
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4A0940
Report Date: 2024/04/25

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PORJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: EICAC026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/05/17**
Report #: R8153797
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4D3994**
**Received: 2024/05/06, 09:18**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Mercury in Water by CVAA | 3 | 2024/05/17 | 2024/05/17 | CAM SOP-00453 | EPA 7470A m |
| Total Metals Analysis by Axial ICP | 3 | 2024/05/15 | 2024/05/16 | CAM SOP-00408 | EPA 6010D m |
| Total Metals Analysis by ICPMS | 3 | 2024/05/17 | 2024/05/17 | CAM SOP-00447 | EPA 6020B m |
| Insoluble Part. in Dustfall (D1739mod) | 3 | 2024/05/15 | 2024/05/16 | BRL SOP-00121 | ASTM D1739 m |
| Soluble Part. in Dustfall (D1739mod) | 3 | 2024/05/15 | 2024/05/17 | BRL SOP-00121 | ASTM D1739 m |
| Volume of Sample Received | 3 | 2024/05/15 | 2024/05/15 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: EICAC026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/05/17**
Report #: R8153797
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4D3994**
**Received: 2024/05/06, 09:18**

Encryption Key

Cristina (Maria) Bacchus
Project Manager
17 May 2024 17:33:12

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

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Bureau Veritas Job #: C4D3994
Report Date: 2024/05/17

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | ZBV328 | ZBV329 | ZBV330 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2024/05/01 | 2024/05/01 | 2024/05/01 | | |
| COC Number | | n/a | n/a | n/a | | |
| | UNITS | BELL TOWERS DUSTFALL APRIL | TOTE DUSTFALL APRIL | TEARDROP DUSTFALL APRIL | RDL | QC Batch |
| | | | | | | |
| Insoluble Particulate | mg | <2.0 | <2.0 | 2.2 | 2.0 | 9394409 |
| Soluble Particulate | mg | 6.0 | <2.6 | 3.6 | 2.6 | 9394411 |
| **Charge/Prep Analysis** | | | | | | |
| Volume of sample | ml | 130 | 140 | 91 | 1 | 9394367 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4D3994
Report Date: 2024/05/17

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

| Bureau Veritas ID | | ZBV328 | ZBV329 | ZBV330 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2024/05/01 | 2024/05/01 | 2024/05/01 | | |
| COC Number | | n/a | n/a | n/a | | |
| | UNITS | BELL TOWERS DUSTFALL APRIL | TOTE DUSTFALL APRIL | TEARDROP DUSTFALL APRIL | RDL | QC Batch |
| **Metals** | | | | | | |
| Mercury (Hg) | mg/L | <0.00010 | <0.00010 | <0.00010 | 0.00010 | 9399902 |
| Total Sulphur (S) | mg/L | 0.25 | 0.22 | 0.24 | 0.05 | 9393996 |
| Total Aluminum (Al) | ug/L | 96 | 71 | 93 | 4.9 | 9399530 |
| Total Antimony (Sb) | ug/L | 4.5 | 4.2 | 4.6 | 0.50 | 9399530 |
| Total Arsenic (As) | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9399530 |
| Total Barium (Ba) | ug/L | 2.4 | 2.2 | 2.3 | 2.0 | 9399530 |
| Total Beryllium (Be) | ug/L | <0.40 | <0.40 | <0.40 | 0.40 | 9399530 |
| Total Bismuth (Bi) | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9399530 |
| Total Boron (B) | ug/L | <10 | <10 | <10 | 10 | 9399530 |
| Total Cadmium (Cd) | ug/L | <0.090 | <0.090 | <0.090 | 0.090 | 9399530 |
| Total Calcium (Ca) | ug/L | 560 | 420 | 540 | 200 | 9399530 |
| Total Chromium (Cr) | ug/L | <5.0 | <5.0 | <5.0 | 5.0 | 9399530 |
| Total Cobalt (Co) | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9399530 |
| Total Copper (Cu) | ug/L | <0.90 | <0.90 | <0.90 | 0.90 | 9399530 |
| Total Iron (Fe) | ug/L | 110 | <100 | 110 | 100 | 9399530 |
| Total Lead (Pb) | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9399530 |
| Total Lithium (Li) | ug/L | <5.0 | <5.0 | <5.0 | 5.0 | 9399530 |
| Total Magnesium (Mg) | ug/L | 130 | 92 | 110 | 50 | 9399530 |
| Total Manganese (Mn) | ug/L | 7.6 | 7.4 | 6.7 | 2.0 | 9399530 |
| Total Molybdenum (Mo) | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9399530 |
| Total Nickel (Ni) | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9399530 |
| Total Phosphorus (P) | ug/L | <100 | <100 | <100 | 100 | 9399530 |
| Total Potassium (K) | ug/L | <200 | <200 | <200 | 200 | 9399530 |
| Total Selenium (Se) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9399530 |
| Total Silicon (Si) | ug/L | 240 | 150 | 190 | 50 | 9399530 |
| Total Silver (Ag) | ug/L | <0.090 | <0.090 | <0.090 | 0.090 | 9399530 |
| Total Sodium (Na) | ug/L | 100 | <100 | 120 | 100 | 9399530 |
| Total Strontium (Sr) | ug/L | 1.8 | 1.5 | 1.7 | 1.0 | 9399530 |
| Total Tellurium (Te) | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9399530 |
| Total Thallium (Tl) | ug/L | <0.050 | <0.050 | <0.050 | 0.050 | 9399530 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4D3994
Report Date: 2024/05/17

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

| Bureau Veritas ID | | ZBV328 | ZBV329 | ZBV330 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2024/05/01 | 2024/05/01 | 2024/05/01 | | |
| COC Number | | n/a | n/a | n/a | | |
| | UNITS | BELL TOWERS DUSTFALL APRIL | TOTE DUSTFALL APRIL | TEARDROP DUSTFALL APRIL | RDL | QC Batch |
| Total Tin (Sn) | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9399530 |
| Total Titanium (Ti) | ug/L | <5.0 | <5.0 | <5.0 | 5.0 | 9399530 |
| Total Tungsten (W) | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9399530 |
| Total Uranium (U) | ug/L | <0.10 | <0.10 | <0.10 | 0.10 | 9399530 |
| Total Vanadium (V) | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9399530 |
| Total Zinc (Zn) | ug/L | <5.0 | <5.0 | <5.0 | 5.0 | 9399530 |
| Total Zirconium (Zr) | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9399530 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4D3994
Report Date: 2024/05/17

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** ZBV328 **Collected:** 2024/05/01
**Sample ID:** BELL TOWERS DUSTFALL APRIL **Shipped:**
**Matrix:** Water **Received:** 2024/05/06

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury in Water by CVAA | CV/AA | 9399902 | 2024/05/17 | 2024/05/17 | Aswathy Neduveli Suresh |
| Total Metals Analysis by Axial ICP | ICPX | 9393996 | 2024/05/15 | 2024/05/16 | Japneet Gill |
| Total Metals Analysis by ICPMS | ICP/MS | 9399530 | 2024/05/17 | 2024/05/17 | Arefa Dabhad |
| Insoluble Part. in Dustfall (D1739mod) | BAL | 9394409 | 2024/05/15 | 2024/05/16 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 9394411 | 2024/05/15 | 2024/05/17 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 9394367 | 2024/05/15 | 2024/05/15 | Mohammad Wahidul Alam |

**Bureau Veritas ID:** ZBV329 **Collected:** 2024/05/01
**Sample ID:** TOTE DUSTFALL APRIL **Shipped:**
**Matrix:** Water **Received:** 2024/05/06

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury in Water by CVAA | CV/AA | 9399902 | 2024/05/17 | 2024/05/17 | Aswathy Neduveli Suresh |
| Total Metals Analysis by Axial ICP | ICPX | 9393996 | 2024/05/15 | 2024/05/16 | Japneet Gill |
| Total Metals Analysis by ICPMS | ICP/MS | 9399530 | 2024/05/17 | 2024/05/17 | Arefa Dabhad |
| Insoluble Part. in Dustfall (D1739mod) | BAL | 9394409 | 2024/05/15 | 2024/05/16 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 9394411 | 2024/05/15 | 2024/05/17 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 9394367 | 2024/05/15 | 2024/05/15 | Mohammad Wahidul Alam |

**Bureau Veritas ID:** ZBV330 **Collected:** 2024/05/01
**Sample ID:** TEARDROP DUSTFALL APRIL **Shipped:**
**Matrix:** Water **Received:** 2024/05/06

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury in Water by CVAA | CV/AA | 9399902 | 2024/05/17 | 2024/05/17 | Aswathy Neduveli Suresh |
| Total Metals Analysis by Axial ICP | ICPX | 9393996 | 2024/05/15 | 2024/05/16 | Japneet Gill |
| Total Metals Analysis by ICPMS | ICP/MS | 9399530 | 2024/05/17 | 2024/05/17 | Arefa Dabhad |
| Insoluble Part. in Dustfall (D1739mod) | BAL | 9394409 | 2024/05/15 | 2024/05/16 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 9394411 | 2024/05/15 | 2024/05/17 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 9394367 | 2024/05/15 | 2024/05/15 | Mohammad Wahidul Alam |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

| | |
|---|---|
| Package 1 | 17.0°C |

50% of sample volume was processed for dustfall; remaining 50% of sample was sent to Inorganic Processing for further metals and Hg analysis. Results and DL were multiplied by 2.

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT



| | | | Matrix Spike | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 9393996 | Total Sulphur (S) | 2024/05/17 | NC | 80 - 120 | 102 | 80 - 120 | <0.05 | mg/L | | |
| 9394409 | Insoluble Particulate | 2024/05/16 | | | 98 | 85 - 115 | <1.0 | mg | | |
| 9394411 | Soluble Particulate | 2024/05/17 | | | 100 | 85 - 115 | <0.20 | mg | | |
| 9399530 | Total Aluminum (Al) | 2024/05/17 | 90 | 80 - 120 | 91 | 80 - 120 | <4.9 | ug/L | 19 (1) | 20 |
| 9399530 | Total Antimony (Sb) | 2024/05/17 | 102 | 80 - 120 | 99 | 80 - 120 | <0.50 | ug/L | NC (1) | 20 |
| 9399530 | Total Arsenic (As) | 2024/05/17 | 100 | 80 - 120 | 96 | 80 - 120 | <1.0 | ug/L | NC (1) | 20 |
| 9399530 | Total Barium (Ba) | 2024/05/17 | 98 | 80 - 120 | 96 | 80 - 120 | <2.0 | ug/L | | |
| 9399530 | Total Beryllium (Be) | 2024/05/17 | 103 | 80 - 120 | 102 | 80 - 120 | <0.40 | ug/L | | |
| 9399530 | Total Bismuth (Bi) | 2024/05/17 | 89 | 80 - 120 | 91 | 80 - 120 | <1.0 | ug/L | | |
| 9399530 | Total Boron (B) | 2024/05/17 | 102 | 80 - 120 | 100 | 80 - 120 | <10 | ug/L | | |
| 9399530 | Total Cadmium (Cd) | 2024/05/17 | 98 | 80 - 120 | 96 | 80 - 120 | <0.090 | ug/L | NC (1) | 20 |
| 9399530 | Total Calcium (Ca) | 2024/05/17 | NC | 80 - 120 | 95 | 80 - 120 | <200 | ug/L | | |
| 9399530 | Total Chromium (Cr) | 2024/05/17 | 100 | 80 - 120 | 96 | 80 - 120 | <5.0 | ug/L | NC (1) | 20 |
| 9399530 | Total Cobalt (Co) | 2024/05/17 | 97 | 80 - 120 | 93 | 80 - 120 | <0.50 | ug/L | NC (1) | 20 |
| 9399530 | Total Copper (Cu) | 2024/05/17 | 100 | 80 - 120 | 99 | 80 - 120 | <0.90 | ug/L | 4.2 (1) | 20 |
| 9399530 | Total Iron (Fe) | 2024/05/17 | 97 | 80 - 120 | 96 | 80 - 120 | <100 | ug/L | 3.0 (1) | 20 |
| 9399530 | Total Lead (Pb) | 2024/05/17 | 92 | 80 - 120 | 94 | 80 - 120 | <0.50 | ug/L | NC (1) | 20 |
| 9399530 | Total Lithium (Li) | 2024/05/17 | 102 | 80 - 120 | 97 | 80 - 120 | <5.0 | ug/L | | |
| 9399530 | Total Magnesium (Mg) | 2024/05/17 | 95 | 80 - 120 | 94 | 80 - 120 | <50 | ug/L | | |
| 9399530 | Total Manganese (Mn) | 2024/05/17 | 95 | 80 - 120 | 95 | 80 - 120 | <2.0 | ug/L | 4.7 (1) | 20 |
| 9399530 | Total Molybdenum (Mo) | 2024/05/17 | 107 | 80 - 120 | 100 | 80 - 120 | <0.50 | ug/L | 1.8 (1) | 20 |
| 9399530 | Total Nickel (Ni) | 2024/05/17 | 93 | 80 - 120 | 91 | 80 - 120 | <1.0 | ug/L | 6.9 (1) | 20 |
| 9399530 | Total Phosphorus (P) | 2024/05/17 | 94 | 80 - 120 | 83 | 80 - 120 | <100 | ug/L | | |
| 9399530 | Total Potassium (K) | 2024/05/17 | 95 | 80 - 120 | 99 | 80 - 120 | <200 | ug/L | | |
| 9399530 | Total Selenium (Se) | 2024/05/17 | 99 | 80 - 120 | 99 | 80 - 120 | <2.0 | ug/L | NC (1) | 20 |
| 9399530 | Total Silicon (Si) | 2024/05/17 | 95 | 80 - 120 | 91 | 80 - 120 | <50 | ug/L | | |
| 9399530 | Total Silver (Ag) | 2024/05/17 | 94 | 80 - 120 | 95 | 80 - 120 | <0.090 | ug/L | | |
| 9399530 | Total Sodium (Na) | 2024/05/17 | NC | 80 - 120 | 92 | 80 - 120 | <100 | ug/L | | |
| 9399530 | Total Strontium (Sr) | 2024/05/17 | 92 | 80 - 120 | 89 | 80 - 120 | <1.0 | ug/L | | |
| 9399530 | Total Tellurium (Te) | 2024/05/17 | 93 | 80 - 120 | 97 | 80 - 120 | <1.0 | ug/L | | |



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)



| | | | Matrix Spike | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 9399530 | Total Thallium (Tl) | 2024/05/17 | 94 | 80 - 120 | 97 | 80 - 120 | <0.050 | ug/L | | |
| 9399530 | Total Tin (Sn) | 2024/05/17 | 101 | 80 - 120 | 98 | 80 - 120 | <1.0 | ug/L | | |
| 9399530 | Total Titanium (Ti) | 2024/05/17 | 96 | 80 - 120 | 93 | 80 - 120 | <5.0 | ug/L | | |
| 9399530 | Total Tungsten (W) | 2024/05/17 | 101 | 80 - 120 | 99 | 80 - 120 | <1.0 | ug/L | | |
| 9399530 | Total Uranium (U) | 2024/05/17 | 95 | 80 - 120 | 89 | 80 - 120 | <0.10 | ug/L | | |
| 9399530 | Total Vanadium (V) | 2024/05/17 | 95 | 80 - 120 | 91 | 80 - 120 | <0.50 | ug/L | | |
| 9399530 | Total Zinc (Zn) | 2024/05/17 | 97 | 80 - 120 | 95 | 80 - 120 | <5.0 | ug/L | 5.7 (1) | 20 |
| 9399530 | Total Zirconium (Zr) | 2024/05/17 | 99 | 80 - 120 | 96 | 80 - 120 | <1.0 | ug/L | | |
| 9399902 | Mercury (Hg) | 2024/05/17 | 97 | 75 - 125 | 97 | 80 - 120 | <0.00010 | mg/L | NC (1) | 20 |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Duplicate Parent ID



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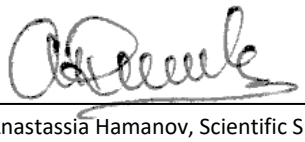
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4D3994
Report Date: 2024/05/17

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

AIR

CAM FCD-01302 /3

BUREAU VERITAS
6740 Campobello Rd
Mississauga Ontario ,L5N 2L8
www.bvlabs.com
Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

## CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / WSP E&I Canada
Project Manager: Ryan Fletcher
e-mail: See comments below for email list
Address: 19 Young Street,
Red Lake, ON, CA, P0V 2M0
Phone: 1 647-283-4638 Fax:
Sampled by: JM + CB + EM + AP

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Run Time | Dust Fall Opening (Inner Diameter | Dust Fall Opening (Outer Diameter | Silica | PM 10 | PM 2.5 | Dustfall | TSP | Metals | Mercury |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hi Vol Quartz 24020146 Bell Towers | | 44 | 4/6/2024 | 23.47 | | | | | | | X | X | X |
| Hi Vol Quartz 24020147 Bell Towers | | 28 | 4/12/2024 | 23.36 | | | | | | | X | X | X |
| Hi Vol Quartz 24020148 Bell Towers | | 42 | 4/18/2024 | 23.78 | | | | | | | X | X | X |
| Hi Vol Quartz 24020149 Bell Towers | | 44 | 4/24/2024 | 23.83 | | | | | | | X | X | X |
| Hi Vol Quartz 24020150 Bell Towers | | 44 | 4/30/2024 | 23.36 | | | | | | | X | X | X |
| Bell Towers Dustfall April | | | April 1- May 1 | April 1- May 1 | | | | | | X | | | |
| Tote Dustfall April | | | April 1- May 1 | April 1- May 1 | | | | | | X | | | |
| Teardrop Dustfall April | | | April 1- May 1 | April 1- May 1 | | | | | | X | | | |

06-May-24 09:18
Gina Baybayan
C4D3994
AIR-RmTmp
AN4

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2303.2023D.100
Name: Kinross Project
PO #: EICAC026300307
BV Quote #:
BV Contact: Jade Browne

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; ryan.fletcher@wsp.com; airgroup@woodplc.com; emily.meek@kinross.com; aaron.peloquin@kinross.com; curtis.bloemberg@kinross.com***

Client Signature: EM E Meek
Affiliation: Kinross
Date/Time: 5/2/2024

Received by:
Affiliation:
Date/Time: 17/17/17

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions*

Your P.O. #: EICAC026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/05/17**
Report #: R8153797
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4D3994**
**Received: 2024/05/06, 09:18**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Mercury in Water by CVAA | 3 | 2024/05/17 | 2024/05/17 | CAM SOP-00453 | EPA 7470A m |
| Total Metals Analysis by Axial ICP | 3 | 2024/05/15 | 2024/05/16 | CAM SOP-00408 | EPA 6010D m |
| Total Metals Analysis by ICPMS | 3 | 2024/05/17 | 2024/05/17 | CAM SOP-00447 | EPA 6020B m |
| Insoluble Part. in Dustfall (D1739mod) | 3 | 2024/05/15 | 2024/05/16 | BRL SOP-00121 | ASTM D1739 m |
| Soluble Part. in Dustfall (D1739mod) | 3 | 2024/05/15 | 2024/05/17 | BRL SOP-00121 | ASTM D1739 m |
| Volume of Sample Received | 3 | 2024/05/15 | 2024/05/15 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

Your P.O. #: EICAC026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/05/17**
Report #: R8153797
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4D3994**
**Received: 2024/05/06, 09:18**

Encryption Key

Cristina (Maria) Bacchus
Project Manager
17 May 2024 17:33:13

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C4D3994
Report Date: 2024/05/17

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | ZBV328 | ZBV329 | ZBV330 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2024/05/01 | 2024/05/01 | 2024/05/01 | | |
| COC Number | | n/a | n/a | n/a | | |
| | UNITS | BELL TOWERS DUSTFALL APRIL | TOTE DUSTFALL APRIL | TEARDROP DUSTFALL APRIL | RDL | QC Batch |
| | | | | | | |
| Insoluble Particulate | mg | <2.0 | <2.0 | 2.2 | 2.0 | 9394409 |
| Soluble Particulate | mg | 6.0 | <2.6 | 3.6 | 2.6 | 9394411 |
| **Charge/Prep Analysis** | | | | | | |
| Volume of sample | ml | 130 | 140 | 91 | 1 | 9394367 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4D3994
Report Date: 2024/05/17

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

| Bureau Veritas ID | | ZBV328 | ZBV329 | ZBV330 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2024/05/01 | 2024/05/01 | 2024/05/01 | | |
| COC Number | | n/a | n/a | n/a | | |
| | UNITS | BELL TOWERS DUSTFALL APRIL | TOTE DUSTFALL APRIL | TEARDROP DUSTFALL APRIL | RDL | QC Batch |
| **Metals** | | | | | | |
| Mercury (Hg) | mg/L | <0.00010 | <0.00010 | <0.00010 | 0.00010 | 9399902 |
| Total Sulphur (S) | mg/L | 0.25 | 0.22 | 0.24 | 0.05 | 9393996 |
| Total Aluminum (Al) | ug/L | 96 | 71 | 93 | 4.9 | 9399530 |
| Total Antimony (Sb) | ug/L | 4.5 | 4.2 | 4.6 | 0.50 | 9399530 |
| Total Arsenic (As) | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9399530 |
| Total Barium (Ba) | ug/L | 2.4 | 2.2 | 2.3 | 2.0 | 9399530 |
| Total Beryllium (Be) | ug/L | <0.40 | <0.40 | <0.40 | 0.40 | 9399530 |
| Total Bismuth (Bi) | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9399530 |
| Total Boron (B) | ug/L | <10 | <10 | <10 | 10 | 9399530 |
| Total Cadmium (Cd) | ug/L | <0.090 | <0.090 | <0.090 | 0.090 | 9399530 |
| Total Calcium (Ca) | ug/L | 560 | 420 | 540 | 200 | 9399530 |
| Total Chromium (Cr) | ug/L | <5.0 | <5.0 | <5.0 | 5.0 | 9399530 |
| Total Cobalt (Co) | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9399530 |
| Total Copper (Cu) | ug/L | <0.90 | <0.90 | <0.90 | 0.90 | 9399530 |
| Total Iron (Fe) | ug/L | 110 | <100 | 110 | 100 | 9399530 |
| Total Lead (Pb) | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9399530 |
| Total Lithium (Li) | ug/L | <5.0 | <5.0 | <5.0 | 5.0 | 9399530 |
| Total Magnesium (Mg) | ug/L | 130 | 92 | 110 | 50 | 9399530 |
| Total Manganese (Mn) | ug/L | 7.6 | 7.4 | 6.7 | 2.0 | 9399530 |
| Total Molybdenum (Mo) | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9399530 |
| Total Nickel (Ni) | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9399530 |
| Total Phosphorus (P) | ug/L | <100 | <100 | <100 | 100 | 9399530 |
| Total Potassium (K) | ug/L | <200 | <200 | <200 | 200 | 9399530 |
| Total Selenium (Se) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9399530 |
| Total Silicon (Si) | ug/L | 240 | 150 | 190 | 50 | 9399530 |
| Total Silver (Ag) | ug/L | <0.090 | <0.090 | <0.090 | 0.090 | 9399530 |
| Total Sodium (Na) | ug/L | 100 | <100 | 120 | 100 | 9399530 |
| Total Strontium (Sr) | ug/L | 1.8 | 1.5 | 1.7 | 1.0 | 9399530 |
| Total Tellurium (Te) | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9399530 |
| Total Thallium (Tl) | ug/L | <0.050 | <0.050 | <0.050 | 0.050 | 9399530 |
| Total Tin (Sn) | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9399530 |
| Total Titanium (Ti) | ug/L | <5.0 | <5.0 | <5.0 | 5.0 | 9399530 |
| Total Tungsten (W) | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9399530 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4D3994
Report Date: 2024/05/17

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

| Bureau Veritas ID | | ZBV328 | ZBV329 | ZBV330 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2024/05/01 | 2024/05/01 | 2024/05/01 | | |
| COC Number | | n/a | n/a | n/a | | |
| | UNITS | BELL TOWERS DUSTFALL APRIL | TOTE DUSTFALL APRIL | TEARDROP DUSTFALL APRIL | RDL | QC Batch |
| Total Uranium (U) | ug/L | <0.10 | <0.10 | <0.10 | 0.10 | 9399530 |
| Total Vanadium (V) | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9399530 |
| Total Zinc (Zn) | ug/L | <5.0 | <5.0 | <5.0 | 5.0 | 9399530 |
| Total Zirconium (Zr) | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9399530 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## GENERAL COMMENTS

50% of sample volume was processed for dustfall; remaining 50% of sample was sent to Inorganic Processing for further metals and Hg analysis. Results and DL were multiplied by 2.

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4D3994
Report Date: 2024/05/17

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9393996 | JGC | Matrix Spike | Total Sulphur (S) | 2024/05/16 | | NC | % | 80 - 120 |
| 9393996 | JGC | Spiked Blank | Total Sulphur (S) | 2024/05/16 | | 102 | % | 80 - 120 |
| 9393996 | JGC | Method Blank | Total Sulphur (S) | 2024/05/17 | <0.05 | | mg/L | |
| 9394409 | MOW | Spiked Blank | Insoluble Particulate | 2024/05/16 | | 98 | % | 85 - 115 |
| 9394409 | MOW | Method Blank | Insoluble Particulate | 2024/05/16 | <1.0 | | mg | |
| 9394411 | MOW | Spiked Blank | Soluble Particulate | 2024/05/17 | | 100 | % | 85 - 115 |
| 9394411 | MOW | Method Blank | Soluble Particulate | 2024/05/17 | <0.20 | | mg | |
| 9399530 | ADA | Matrix Spike | Total Aluminum (Al) | 2024/05/17 | | 90 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2024/05/17 | | 102 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2024/05/17 | | 100 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2024/05/17 | | 98 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2024/05/17 | | 103 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2024/05/17 | | 89 | % | 80 - 120 |
| | | | Total Boron (B) | 2024/05/17 | | 102 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2024/05/17 | | 98 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2024/05/17 | | NC | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2024/05/17 | | 100 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2024/05/17 | | 97 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2024/05/17 | | 100 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2024/05/17 | | 97 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2024/05/17 | | 92 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2024/05/17 | | 102 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2024/05/17 | | 95 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2024/05/17 | | 95 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2024/05/17 | | 107 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2024/05/17 | | 93 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2024/05/17 | | 94 | % | 80 - 120 |
| | | | Total Potassium (K) | 2024/05/17 | | 95 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2024/05/17 | | 99 | % | 80 - 120 |
| | | | Total Silicon (Si) | 2024/05/17 | | 95 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2024/05/17 | | 94 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2024/05/17 | | NC | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2024/05/17 | | 92 | % | 80 - 120 |
| | | | Total Tellurium (Te) | 2024/05/17 | | 93 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2024/05/17 | | 94 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2024/05/17 | | 101 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2024/05/17 | | 96 | % | 80 - 120 |
| | | | Total Tungsten (W) | 2024/05/17 | | 101 | % | 80 - 120 |
| | | | Total Uranium (U) | 2024/05/17 | | 95 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2024/05/17 | | 95 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2024/05/17 | | 97 | % | 80 - 120 |
| | | | Total Zirconium (Zr) | 2024/05/17 | | 99 | % | 80 - 120 |
| 9399530 | ADA | Spiked Blank | Total Aluminum (Al) | 2024/05/17 | | 91 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2024/05/17 | | 99 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2024/05/17 | | 96 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2024/05/17 | | 96 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2024/05/17 | | 102 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2024/05/17 | | 91 | % | 80 - 120 |
| | | | Total Boron (B) | 2024/05/17 | | 100 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2024/05/17 | | 96 | % | 80 - 120 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Calcium (Ca) | 2024/05/17 | | 95 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2024/05/17 | | 96 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2024/05/17 | | 93 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2024/05/17 | | 99 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2024/05/17 | | 96 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2024/05/17 | | 94 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2024/05/17 | | 97 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2024/05/17 | | 94 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2024/05/17 | | 95 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2024/05/17 | | 100 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2024/05/17 | | 91 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2024/05/17 | | 83 | % | 80 - 120 |
| | | | Total Potassium (K) | 2024/05/17 | | 99 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2024/05/17 | | 99 | % | 80 - 120 |
| | | | Total Silicon (Si) | 2024/05/17 | | 91 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2024/05/17 | | 95 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2024/05/17 | | 92 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2024/05/17 | | 89 | % | 80 - 120 |
| | | | Total Tellurium (Te) | 2024/05/17 | | 97 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2024/05/17 | | 97 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2024/05/17 | | 98 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2024/05/17 | | 93 | % | 80 - 120 |
| | | | Total Tungsten (W) | 2024/05/17 | | 99 | % | 80 - 120 |
| | | | Total Uranium (U) | 2024/05/17 | | 89 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2024/05/17 | | 91 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2024/05/17 | | 95 | % | 80 - 120 |
| | | | Total Zirconium (Zr) | 2024/05/17 | | 96 | % | 80 - 120 |
| 9399530 | ADA | Method Blank | Total Aluminum (Al) | 2024/05/17 | <4.9 | | ug/L | |
| | | | Total Antimony (Sb) | 2024/05/17 | <0.50 | | ug/L | |
| | | | Total Arsenic (As) | 2024/05/17 | <1.0 | | ug/L | |
| | | | Total Barium (Ba) | 2024/05/17 | <2.0 | | ug/L | |
| | | | Total Beryllium (Be) | 2024/05/17 | <0.40 | | ug/L | |
| | | | Total Bismuth (Bi) | 2024/05/17 | <1.0 | | ug/L | |
| | | | Total Boron (B) | 2024/05/17 | <10 | | ug/L | |
| | | | Total Cadmium (Cd) | 2024/05/17 | <0.090 | | ug/L | |
| | | | Total Calcium (Ca) | 2024/05/17 | <200 | | ug/L | |
| | | | Total Chromium (Cr) | 2024/05/17 | <5.0 | | ug/L | |
| | | | Total Cobalt (Co) | 2024/05/17 | <0.50 | | ug/L | |
| | | | Total Copper (Cu) | 2024/05/17 | <0.90 | | ug/L | |
| | | | Total Iron (Fe) | 2024/05/17 | <100 | | ug/L | |
| | | | Total Lead (Pb) | 2024/05/17 | <0.50 | | ug/L | |
| | | | Total Lithium (Li) | 2024/05/17 | <5.0 | | ug/L | |
| | | | Total Magnesium (Mg) | 2024/05/17 | <50 | | ug/L | |
| | | | Total Manganese (Mn) | 2024/05/17 | <2.0 | | ug/L | |
| | | | Total Molybdenum (Mo) | 2024/05/17 | <0.50 | | ug/L | |
| | | | Total Nickel (Ni) | 2024/05/17 | <1.0 | | ug/L | |
| | | | Total Phosphorus (P) | 2024/05/17 | <100 | | ug/L | |
| | | | Total Potassium (K) | 2024/05/17 | <200 | | ug/L | |
| | | | Total Selenium (Se) | 2024/05/17 | <2.0 | | ug/L | |
| | | | Total Silicon (Si) | 2024/05/17 | <50 | | ug/L | |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Silver (Ag) | 2024/05/17 | <0.090 | | ug/L | |
| | | | Total Sodium (Na) | 2024/05/17 | <100 | | ug/L | |
| | | | Total Strontium (Sr) | 2024/05/17 | <1.0 | | ug/L | |
| | | | Total Tellurium (Te) | 2024/05/17 | <1.0 | | ug/L | |
| | | | Total Thallium (Tl) | 2024/05/17 | <0.050 | | ug/L | |
| | | | Total Tin (Sn) | 2024/05/17 | <1.0 | | ug/L | |
| | | | Total Titanium (Ti) | 2024/05/17 | <5.0 | | ug/L | |
| | | | Total Tungsten (W) | 2024/05/17 | <1.0 | | ug/L | |
| | | | Total Uranium (U) | 2024/05/17 | <0.10 | | ug/L | |
| | | | Total Vanadium (V) | 2024/05/17 | <0.50 | | ug/L | |
| | | | Total Zinc (Zn) | 2024/05/17 | <5.0 | | ug/L | |
| | | | Total Zirconium (Zr) | 2024/05/17 | <1.0 | | ug/L | |
| 9399530 | ADA | RPD | Total Aluminum (Al) | 2024/05/17 | 19 | | % | 20 |
| | | | Total Antimony (Sb) | 2024/05/17 | NC | | % | 20 |
| | | | Total Arsenic (As) | 2024/05/17 | NC | | % | 20 |
| | | | Total Cadmium (Cd) | 2024/05/17 | NC | | % | 20 |
| | | | Total Chromium (Cr) | 2024/05/17 | NC | | % | 20 |
| | | | Total Cobalt (Co) | 2024/05/17 | NC | | % | 20 |
| | | | Total Copper (Cu) | 2024/05/17 | 4.2 | | % | 20 |
| | | | Total Iron (Fe) | 2024/05/17 | 3.0 | | % | 20 |
| | | | Total Lead (Pb) | 2024/05/17 | NC | | % | 20 |
| | | | Total Manganese (Mn) | 2024/05/17 | 4.7 | | % | 20 |
| | | | Total Molybdenum (Mo) | 2024/05/17 | 1.8 | | % | 20 |
| | | | Total Nickel (Ni) | 2024/05/17 | 6.9 | | % | 20 |
| | | | Total Selenium (Se) | 2024/05/17 | NC | | % | 20 |
| | | | Total Zinc (Zn) | 2024/05/17 | 5.7 | | % | 20 |
| 9399902 | ANF | Matrix Spike | Mercury (Hg) | 2024/05/17 | | 97 | % | 75 - 125 |
| 9399902 | ANF | Spiked Blank | Mercury (Hg) | 2024/05/17 | | 97 | % | 80 - 120 |
| 9399902 | ANF | Method Blank | Mercury (Hg) | 2024/05/17 | <0.00010 | | mg/L | |
| 9399902 | ANF | RPD | Mercury (Hg) | 2024/05/17 | NC | | % | 20 |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



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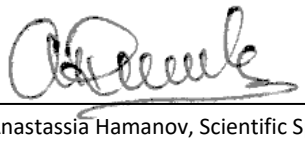
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4D3994
Report Date: 2024/05/17

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: EICAC026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/06/26**
Report #: R8209080
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4H2449**
**Received: 2024/06/06, 11:00**

Sample Matrix: Water
# Samples Received: 2

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Mercury in Water by CVAA | 2 | 2024/06/25 | 2024/06/25 | CAM SOP-00453 | EPA 7470A m |
| Total Metals Analysis by ICPMS | 2 | 2024/06/19 | 2024/06/21 | CAM SOP-00447 | EPA 6020B m |
| Insoluble Part. in Dustfall (D1739mod) | 2 | 2024/06/17 | 2024/06/19 | BRL SOP-00121 | ASTM D1739 m |
| Soluble Part. in Dustfall (D1739mod) | 2 | 2024/06/17 | 2024/06/19 | BRL SOP-00121 | ASTM D1739 m |
| Volume of Sample Received | 2 | 2024/06/17 | 2024/06/17 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: EICAC026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/06/26**
Report #: R8209080
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4H2449**
**Received: 2024/06/06, 11:00**

Encryption Key

Cristina (Maria) Bacchus
Project Manager
26 Jun 2024 14:16:43

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C4H2449
Report Date: 2024/06/26

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | ZJU206 | | ZJU207 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2024/06/01 | | 2024/06/01 | | |
| COC Number | | n/a | | n/a | | |
| | UNITS | TEARDROP DUSTFALL MAY | RDL | BELL TOWERS DUSTFALL MAY | RDL | QC Batch |
| | | | | | | |
| Insoluble Particulate | mg | 11.4 | 2.0 | 9.0 | 2.0 | 9460080 |
| Soluble Particulate | mg | 8.0 | 2.8 | <3.0 | 3.0 | 9460081 |
| **Charge/Prep Analysis** | | | | | | |
| Volume of sample | ml | 240 | 1 | 300 | 1 | 9460076 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4H2449
Report Date: 2024/06/26

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

| Bureau Veritas ID | | ZJU206 | ZJU207 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2024/06/01 | 2024/06/01 | | |
| COC Number | | n/a | n/a | | |
| | UNITS | TEARDROP DUSTFALL MAY | BELL TOWERS DUSTFALL MAY | RDL | QC Batch |
| **Metals** | | | | | |
| Mercury (Hg) | mg/L | <0.00010 | <0.00010 | 0.00010 | 9476630 |
| Total Aluminum (Al) | ug/L | 79 | 71 | 4.9 | 9464909 |
| Total Antimony (Sb) | ug/L | 3.1 | 2.4 | 0.50 | 9464909 |
| Total Arsenic (As) | ug/L | <1.0 | <1.0 | 1.0 | 9464909 |
| Total Barium (Ba) | ug/L | 2.7 | 2.9 | 2.0 | 9464909 |
| Total Beryllium (Be) | ug/L | <0.40 | <0.40 | 0.40 | 9464909 |
| Total Bismuth (Bi) | ug/L | <1.0 | <1.0 | 1.0 | 9464909 |
| Total Boron (B) | ug/L | <10 | <10 | 10 | 9464909 |
| Total Cadmium (Cd) | ug/L | <0.090 | <0.090 | 0.090 | 9464909 |
| Total Calcium (Ca) | ug/L | 750 | 680 | 200 | 9464909 |
| Total Chromium (Cr) | ug/L | <5.0 | <5.0 | 5.0 | 9464909 |
| Total Cobalt (Co) | ug/L | <0.50 | <0.50 | 0.50 | 9464909 |
| Total Copper (Cu) | ug/L | 2.0 | 1.8 | 0.90 | 9464909 |
| Total Iron (Fe) | ug/L | 100 | 110 | 100 | 9464909 |
| Total Lead (Pb) | ug/L | <0.50 | <0.50 | 0.50 | 9464909 |
| Total Lithium (Li) | ug/L | <5.0 | <5.0 | 5.0 | 9464909 |
| Total Magnesium (Mg) | ug/L | 250 | 230 | 50 | 9464909 |
| Total Manganese (Mn) | ug/L | 10 | 13 | 2.0 | 9464909 |
| Total Molybdenum (Mo) | ug/L | <0.50 | <0.50 | 0.50 | 9464909 |
| Total Nickel (Ni) | ug/L | <1.0 | <1.0 | 1.0 | 9464909 |
| Total Phosphorus (P) | ug/L | 260 | 250 | 100 | 9464909 |
| Total Potassium (K) | ug/L | 540 | 560 | 200 | 9464909 |
| Total Selenium (Se) | ug/L | <2.0 | <2.0 | 2.0 | 9464909 |
| Total Silicon (Si) | ug/L | 140 | 140 | 50 | 9464909 |
| Total Silver (Ag) | ug/L | <0.090 | <0.090 | 0.090 | 9464909 |
| Total Sodium (Na) | ug/L | <100 | <100 | 100 | 9464909 |
| Total Strontium (Sr) | ug/L | 1.4 | 1.4 | 1.0 | 9464909 |
| Total Tellurium (Te) | ug/L | <1.0 | <1.0 | 1.0 | 9464909 |
| Total Thallium (Tl) | ug/L | <0.050 | <0.050 | 0.050 | 9464909 |
| Total Tin (Sn) | ug/L | <1.0 | <1.0 | 1.0 | 9464909 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

| Bureau Veritas ID | | ZJU206 | ZJU207 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2024/06/01 | 2024/06/01 | | |
| COC Number | | n/a | n/a | | |
| | UNITS | TEARDROP DUSTFALL MAY | BELL TOWERS DUSTFALL MAY | RDL | QC Batch |
| Total Titanium (Ti) | ug/L | 5.8 | <5.0 | 5.0 | 9464909 |
| Total Tungsten (W) | ug/L | <1.0 | <1.0 | 1.0 | 9464909 |
| Total Uranium (U) | ug/L | <0.10 | <0.10 | 0.10 | 9464909 |
| Total Vanadium (V) | ug/L | <0.50 | <0.50 | 0.50 | 9464909 |
| Total Zinc (Zn) | ug/L | <5.0 | 6.2 | 5.0 | 9464909 |
| Total Zirconium (Zr) | ug/L | <1.0 | <1.0 | 1.0 | 9464909 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4H2449
Report Date: 2024/06/26

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** ZJU206
**Sample ID:** TEARDROP DUSTFALL MAY
**Matrix:** Water

**Collected:** 2024/06/01
**Shipped:**
**Received:** 2024/06/06

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury in Water by CVAA | CV/AA | 9476630 | 2024/06/25 | 2024/06/25 | Gagandeep Rai |
| Total Metals Analysis by ICPMS | ICP/MS | 9464909 | 2024/06/19 | 2024/06/21 | Indira HarryPaul |
| Insoluble Part. in Dustfall (D1739mod) | BAL | 9460080 | 2024/06/17 | 2024/06/19 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 9460081 | 2024/06/17 | 2024/06/19 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 9460076 | 2024/06/17 | 2024/06/17 | Mohammad Wahidul Alam |

**Bureau Veritas ID:** ZJU207
**Sample ID:** BELL TOWERS DUSTFALL MAY
**Matrix:** Water

**Collected:** 2024/06/01
**Shipped:**
**Received:** 2024/06/06

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury in Water by CVAA | CV/AA | 9476630 | 2024/06/25 | 2024/06/25 | Gagandeep Rai |
| Total Metals Analysis by ICPMS | ICP/MS | 9464909 | 2024/06/19 | 2024/06/21 | Indira HarryPaul |
| Insoluble Part. in Dustfall (D1739mod) | BAL | 9460080 | 2024/06/17 | 2024/06/19 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 9460081 | 2024/06/17 | 2024/06/19 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 9460076 | 2024/06/17 | 2024/06/17 | Mohammad Wahidul Alam |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

50% of sample volume was processed for dustfall; remaining 50% of sample was sent to Inorganic Processing for further metals and Hg analysis.
Results and DL were multiplied by 2.
Mercury Analysis: Samples were submitted using an incorrect bottle type and preservation. Results maybe biased low. Analysis performed with client's consent.

**Results relate only to the items tested.**

## QUALITY ASSURANCE REPORT



| | | | Matrix Spike | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 9460080 | Insoluble Particulate | 2024/06/19 | | | 97 | 85 - 115 | <1.0 | mg | | |
| 9460081 | Soluble Particulate | 2024/06/19 | | | 97 | 85 - 115 | <0.20 | mg | | |
| 9464909 | Total Aluminum (Al) | 2024/06/21 | 93 | 80 - 120 | 100 | 80 - 120 | <4.9 | ug/L | 2.2 (1) | 20 |
| 9464909 | Total Antimony (Sb) | 2024/06/21 | 104 | 80 - 120 | 101 | 80 - 120 | <0.50 | ug/L | NC (1) | 20 |
| 9464909 | Total Arsenic (As) | 2024/06/21 | 97 | 80 - 120 | 97 | 80 - 120 | <1.0 | ug/L | NC (1) | 20 |
| 9464909 | Total Barium (Ba) | 2024/06/21 | 94 | 80 - 120 | 94 | 80 - 120 | <2.0 | ug/L | 3.7 (1) | 20 |
| 9464909 | Total Beryllium (Be) | 2024/06/21 | 103 | 80 - 120 | 99 | 80 - 120 | <0.40 | ug/L | NC (1) | 20 |
| 9464909 | Total Bismuth (Bi) | 2024/06/21 | 94 | 80 - 120 | 97 | 80 - 120 | <1.0 | ug/L | NC (1) | 20 |
| 9464909 | Total Boron (B) | 2024/06/21 | 103 | 80 - 120 | 99 | 80 - 120 | <10 | ug/L | 2.3 (1) | 20 |
| 9464909 | Total Cadmium (Cd) | 2024/06/21 | 97 | 80 - 120 | 97 | 80 - 120 | <0.090 | ug/L | NC (1) | 20 |
| 9464909 | Total Calcium (Ca) | 2024/06/21 | NC | 80 - 120 | 102 | 80 - 120 | <200 | ug/L | 0.46 (1) | 20 |
| 9464909 | Total Chromium (Cr) | 2024/06/21 | 91 | 80 - 120 | 94 | 80 - 120 | <5.0 | ug/L | NC (1) | 20 |
| 9464909 | Total Cobalt (Co) | 2024/06/21 | 96 | 80 - 120 | 97 | 80 - 120 | <0.50 | ug/L | NC (1) | 20 |
| 9464909 | Total Copper (Cu) | 2024/06/21 | 102 | 80 - 120 | 96 | 80 - 120 | <0.90 | ug/L | 2.2 (1) | 20 |
| 9464909 | Total Iron (Fe) | 2024/06/21 | 96 | 80 - 120 | 98 | 80 - 120 | <100 | ug/L | NC (1) | 20 |
| 9464909 | Total Lead (Pb) | 2024/06/21 | 95 | 80 - 120 | 96 | 80 - 120 | <0.50 | ug/L | NC (1) | 20 |
| 9464909 | Total Lithium (Li) | 2024/06/21 | 106 | 80 - 120 | 102 | 80 - 120 | <5.0 | ug/L | NC (1) | 20 |
| 9464909 | Total Magnesium (Mg) | 2024/06/21 | 94 | 80 - 120 | 95 | 80 - 120 | <50 | ug/L | 4.9 (1) | 20 |
| 9464909 | Total Manganese (Mn) | 2024/06/21 | 93 | 80 - 120 | 97 | 80 - 120 | <2.0 | ug/L | 2.4 (1) | 20 |
| 9464909 | Total Molybdenum (Mo) | 2024/06/21 | 96 | 80 - 120 | 93 | 80 - 120 | <0.50 | ug/L | 1.4 (1) | 20 |
| 9464909 | Total Nickel (Ni) | 2024/06/21 | 93 | 80 - 120 | 95 | 80 - 120 | <1.0 | ug/L | 3.3 (1) | 20 |
| 9464909 | Total Phosphorus (P) | 2024/06/21 | 99 | 80 - 120 | 94 | 80 - 120 | <100 | ug/L | | |
| 9464909 | Total Potassium (K) | 2024/06/21 | 93 | 80 - 120 | 100 | 80 - 120 | <200 | ug/L | 3.5 (1) | 20 |
| 9464909 | Total Selenium (Se) | 2024/06/21 | 99 | 80 - 120 | 104 | 80 - 120 | <2.0 | ug/L | NC (1) | 20 |
| 9464909 | Total Silicon (Si) | 2024/06/21 | 93 | 80 - 120 | 97 | 80 - 120 | <50 | ug/L | 1.4 (1) | 20 |
| 9464909 | Total Silver (Ag) | 2024/06/21 | 92 | 80 - 120 | 92 | 80 - 120 | <0.090 | ug/L | NC (1) | 20 |
| 9464909 | Total Sodium (Na) | 2024/06/21 | NC | 80 - 120 | 97 | 80 - 120 | <100 | ug/L | 6.0 (1) | 20 |
| 9464909 | Total Strontium (Sr) | 2024/06/21 | 95 | 80 - 120 | 96 | 80 - 120 | <1.0 | ug/L | 5.2 (1) | 20 |
| 9464909 | Total Tellurium (Te) | 2024/06/21 | 97 | 80 - 120 | 99 | 80 - 120 | <1.0 | ug/L | NC (1) | 20 |
| 9464909 | Total Thallium (Tl) | 2024/06/21 | 99 | 80 - 120 | 96 | 80 - 120 | <0.050 | ug/L | NC (1) | 20 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)



| | | | Matrix Spike | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 9464909 | Total Tin (Sn) | 2024/06/21 | 100 | 80 - 120 | 98 | 80 - 120 | <1.0 | ug/L | NC (1) | 20 |
| 9464909 | Total Titanium (Ti) | 2024/06/21 | 95 | 80 - 120 | 98 | 80 - 120 | <5.0 | ug/L | NC (1) | 20 |
| 9464909 | Total Tungsten (W) | 2024/06/21 | 101 | 80 - 120 | 98 | 80 - 120 | <1.0 | ug/L | 5.6 (1) | 20 |
| 9464909 | Total Uranium (U) | 2024/06/21 | 97 | 80 - 120 | 97 | 80 - 120 | <0.10 | ug/L | 1.7 (1) | 20 |
| 9464909 | Total Vanadium (V) | 2024/06/21 | 92 | 80 - 120 | 93 | 80 - 120 | <0.50 | ug/L | 8.0 (1) | 20 |
| 9464909 | Total Zinc (Zn) | 2024/06/21 | 96 | 80 - 120 | 101 | 80 - 120 | <5.0 | ug/L | NC (1) | 20 |
| 9464909 | Total Zirconium (Zr) | 2024/06/21 | 103 | 80 - 120 | 100 | 80 - 120 | <1.0 | ug/L | NC (1) | 20 |
| 9476630 | Mercury (Hg) | 2024/06/25 | 91 | 75 - 125 | 89 | 80 - 120 | <0.00010 | mg/L | NC (1) | 20 |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Duplicate Parent ID



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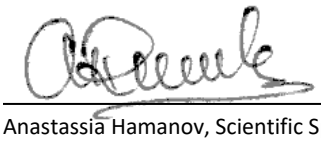
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4H2449
Report Date: 2024/06/26

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

06-Jun-24 11:00
Gina Baybayan
C4H2449

SBS AIR-RmTmp

CAM FCD-01302 /3

bello Rd
Ontario ,L5N 2L8
.com

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / WSP E&I Canada
Project Manager: Ryan Fletcher
e-mail: See comments below for email list
Address: 19 Young Street,
Red Lake, ON, CA, P0V 2M0
Phone: 1 647-283-4638 Fax:
Sampled by: JM + CB + EM + AP

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Run Time | Dust Fall Opening (Inner Diameter | Dust Fall Opening (Outer Diameter | Silica | PM 10 | PM 2.5 | Dustfall | TSP | Metals | Mercury | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hi Vol Quartz 24020151 Bell Towers | | 44 | 5/6/2024 | 23.38 | | | | | | | X | X | X | | | | | |
| Hi Vol Quartz 24022390 Bell Towers | | 44 | 5/12/2024 | 23.43 | | | | | | | X | X | X | | | | | |
| Hi Vol Quartz 24022391 Bell Towers | | 44 | 5/18/2024 | 23.42 | | | | | | | X | X | X | | | | | |
| Hi Vol Quartz 24022391 Bell Towers | | 44 | 5/24/2024 | 24.41 | | | | | | | X | X | X | | | | | |
| Hi Vol Quartz 24012988 Bell Towers | | 44 | 5/30/2024 | 23.8 | | | | | | | X | X | X | | | | | |
| Teardrop Dustfall May | | | May 1-June 1 | May 1-June 1 | | | | | | X | | | | | | | | |
| Bell Towers Dustfall May | | | May 1-June 1 | May 1-June 1 | | | | | | X | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2303.2023D.100
Name: Kinross Project
PO #: EICAC026300307
BV Quote #:
BV Contact: Jade Browne

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; ryan.fletcher@wsp.com; airgroup@woodplc.com; emily.meek@kinross.com; aaron.peloquin@kinross.com; curtis.bloemberg@kinross.com***

Client Signature: EM
Affiliation: Kinross
Date/Time: June 3

Received by:
Affiliation:
Date/Time: June 6/06 1100

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions*

Your P.O. #: P104312CA001
Your Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/07/22**
Report #: R8244364
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4K4525**
**Received: 2024/07/05, 08:56**

Sample Matrix: Water
# Samples Received: 2

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Mercury in Water by CVAA | 2 | 2024/07/18 | 2024/07/18 | CAM SOP-00453 | EPA 7470A m |
| Total Metals Analysis by ICPMS | 1 | 2024/07/17 | 2024/07/18 | CAM SOP-00447 | EPA 6020B m |
| Total Metals Analysis by ICPMS | 1 | 2024/07/18 | 2024/07/18 | CAM SOP-00447 | EPA 6020B m |
| Insoluble Part. in Dustfall (D1739mod) | 2 | 2024/07/17 | 2024/07/18 | BRL SOP-00121 | ASTM D1739 m |
| Soluble Part. in Dustfall (D1739mod) | 2 | 2024/07/17 | 2024/07/19 | BRL SOP-00121 | ASTM D1739 m |
| Volume of Sample Received | 2 | 2024/07/17 | 2024/07/17 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: P104312CA001
Your Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/07/22**
Report #: R8244364
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4K4525**
**Received: 2024/07/05, 08:56**

Encryption Key

Cristina (Maria) Bacchus
Project Manager
22 Jul 2024 11:18:44

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C4K4525
Report Date: 2024/07/22

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | ZQJ575 | | ZQJ576 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2024/07/01 | | 2024/07/01 | | |
| COC Number | | n/a | | n/a | | |
| | UNITS | BELL TOWERS JUNE DUSTFALL | RDL | TEARDROP JUNE DUSTFALL | RDL | QC Batch |
| | | | | | | |
| Insoluble Particulate | mg | 25.6 (1) | 2.0 | 14.2 (1) | 2.0 | 9519554 |
| Soluble Particulate | mg | 10.8 (1) | 4.0 | 5.2 (1) | 3.2 | 9519559 |
| **Charge/Prep Analysis** | | | | | | |
| Volume of sample | ml | 200 | 1 | 160 | 1 | 9519552 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) 50% of sample volume was processed for dustfall; remaining 50% of sample volume was sent to Inorganic Processing for further metals and Hg analysis.
Results and DL were multiplied by 2.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4K4525
Report Date: 2024/07/22

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

| Bureau Veritas ID | | ZQJ575 | | ZQJ576 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2024/07/01 | | 2024/07/01 | | |
| COC Number | | n/a | | n/a | | |
| | UNITS | BELL TOWERS JUNE DUSTFALL | RDL | TEARDROP JUNE DUSTFALL | RDL | QC Batch |
| **Metals** | | | | | | |
| Mercury (Hg) | mg/L | <0.00010 | 0.00010 | <0.00010 | 0.00010 | 9522512 |
| Total Aluminum (Al) | ug/L | 290 | 49 | 110 | 4.9 | 9522611 |
| Total Antimony (Sb) | ug/L | <5.0 | 5.0 | 3.5 | 0.50 | 9522611 |
| Total Arsenic (As) | ug/L | <10 | 10 | <1.0 | 1.0 | 9522611 |
| Total Barium (Ba) | ug/L | <20 | 20 | 2.6 | 2.0 | 9522611 |
| Total Beryllium (Be) | ug/L | <4.0 | 4.0 | <0.40 | 0.40 | 9522611 |
| Total Bismuth (Bi) | ug/L | <10 | 10 | <1.0 | 1.0 | 9522611 |
| Total Boron (B) | ug/L | <100 | 100 | <10 | 10 | 9522611 |
| Total Cadmium (Cd) | ug/L | <0.90 | 0.90 | <0.090 | 0.090 | 9522611 |
| Total Calcium (Ca) | ug/L | <2000 | 2000 | 540 | 200 | 9522611 |
| Total Chromium (Cr) | ug/L | <50 | 50 | <5.0 | 5.0 | 9522611 |
| Total Cobalt (Co) | ug/L | <5.0 | 5.0 | <0.50 | 0.50 | 9522611 |
| Total Copper (Cu) | ug/L | <9.0 | 9.0 | 1.1 | 0.90 | 9522611 |
| Total Iron (Fe) | ug/L | <1000 | 1000 | 130 | 100 | 9522611 |
| Total Lead (Pb) | ug/L | <5.0 | 5.0 | <0.50 | 0.50 | 9522611 |
| Total Lithium (Li) | ug/L | <50 | 50 | <5.0 | 5.0 | 9522611 |
| Total Magnesium (Mg) | ug/L | <500 | 500 | 210 | 50 | 9522611 |
| Total Manganese (Mn) | ug/L | 34 | 20 | 9.0 | 2.0 | 9522611 |
| Total Molybdenum (Mo) | ug/L | <5.0 | 5.0 | <0.50 | 0.50 | 9522611 |
| Total Nickel (Ni) | ug/L | <10 | 10 | <1.0 | 1.0 | 9522611 |
| Total Phosphorus (P) | ug/L | 2800 | 1000 | 210 | 100 | 9522611 |
| Total Potassium (K) | ug/L | 3200 | 2000 | 830 | 200 | 9522611 |
| Total Selenium (Se) | ug/L | <20 | 20 | <2.0 | 2.0 | 9522611 |
| Total Silicon (Si) | ug/L | <500 | 500 | 180 | 50 | 9522611 |
| Total Silver (Ag) | ug/L | <0.90 | 0.90 | <0.090 | 0.090 | 9522611 |
| Total Sodium (Na) | ug/L | <1000 | 1000 | <100 | 100 | 9522611 |
| Total Strontium (Sr) | ug/L | <10 | 10 | 1.3 | 1.0 | 9522611 |
| Total Tellurium (Te) | ug/L | <10 | 10 | <1.0 | 1.0 | 9522611 |
| Total Thallium (Tl) | ug/L | <0.50 | 0.50 | <0.050 | 0.050 | 9522611 |
| Total Tin (Sn) | ug/L | <10 | 10 | <1.0 | 1.0 | 9522611 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4K4525
Report Date: 2024/07/22

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

| Bureau Veritas ID | | ZQJ575 | | ZQJ576 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2024/07/01 | | 2024/07/01 | | |
| COC Number | | n/a | | n/a | | |
| | UNITS | BELL TOWERS JUNE DUSTFALL | RDL | TEARDROP JUNE DUSTFALL | RDL | QC Batch |
| Total Titanium (Ti) | ug/L | <50 | 50 | 5.3 | 5.0 | 9522611 |
| Total Tungsten (W) | ug/L | <10 | 10 | <1.0 | 1.0 | 9522611 |
| Total Uranium (U) | ug/L | <1.0 | 1.0 | <0.10 | 0.10 | 9522611 |
| Total Vanadium (V) | ug/L | <5.0 | 5.0 | <0.50 | 0.50 | 9522611 |
| Total Zinc (Zn) | ug/L | <50 | 50 | 5.9 | 5.0 | 9522611 |
| Total Zirconium (Zr) | ug/L | <10 | 10 | <1.0 | 1.0 | 9522611 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4K4525
Report Date: 2024/07/22

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** ZQJ575
**Sample ID:** BELL TOWERS JUNE DUSTFALL
**Matrix:** Water

**Collected:** 2024/07/01
**Shipped:**
**Received:** 2024/07/05

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury in Water by CVAA | CV/AA | 9522512 | 2024/07/18 | 2024/07/18 | Aswathy Neduveli Suresh |
| Total Metals Analysis by ICPMS | ICP/MS | 9522611 | 2024/07/17 | 2024/07/18 | Indira HarryPaul |
| Insoluble Part. in Dustfall (D1739mod) | BAL | 9519554 | 2024/07/17 | 2024/07/18 | Joseph-Noel Andres |
| Soluble Part. in Dustfall (D1739mod) | BAL | 9519559 | 2024/07/17 | 2024/07/19 | Joseph-Noel Andres |
| Volume of Sample Received | | 9519552 | 2024/07/17 | 2024/07/17 | Joseph-Noel Andres |

**Bureau Veritas ID:** ZQJ576
**Sample ID:** TEARDROP JUNE DUSTFALL
**Matrix:** Water

**Collected:** 2024/07/01
**Shipped:**
**Received:** 2024/07/05

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury in Water by CVAA | CV/AA | 9522512 | 2024/07/18 | 2024/07/18 | Aswathy Neduveli Suresh |
| Total Metals Analysis by ICPMS | ICP/MS | 9522611 | 2024/07/18 | 2024/07/18 | Indira HarryPaul |
| Insoluble Part. in Dustfall (D1739mod) | BAL | 9519554 | 2024/07/17 | 2024/07/18 | Joseph-Noel Andres |
| Soluble Part. in Dustfall (D1739mod) | BAL | 9519559 | 2024/07/17 | 2024/07/19 | Joseph-Noel Andres |
| Volume of Sample Received | | 9519552 | 2024/07/17 | 2024/07/17 | Joseph-Noel Andres |



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

Mercury Analysis: Samples were submitted using an incorrect bottle type and preservation. Results maybe biased low. Analysis performed with client's consent.

Sample ZQJ575 [BELL TOWERS JUNE DUSTFALL] : Metals Analysis: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT



| | | | Matrix Spike | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 9519554 | Insoluble Particulate | 2024/07/18 | | | 100 | 85 - 115 | <1.0 | mg | | |
| 9519559 | Soluble Particulate | 2024/07/19 | | | 101 | 85 - 115 | <0.20 | mg | | |
| 9522512 | Mercury (Hg) | 2024/07/18 | 93 | 75 - 125 | 88 | 80 - 120 | <0.00010 | mg/L | NC (1) | 20 |
| 9522611 | Total Aluminum (Al) | 2024/07/18 | 102 | 80 - 120 | 104 | 80 - 120 | <4.9 | ug/L | 3.0 (1) | 20 |
| 9522611 | Total Antimony (Sb) | 2024/07/18 | 101 | 80 - 120 | 102 | 80 - 120 | <0.50 | ug/L | 11 (1) | 20 |
| 9522611 | Total Arsenic (As) | 2024/07/18 | 98 | 80 - 120 | 98 | 80 - 120 | <1.0 | ug/L | 1.2 (1) | 20 |
| 9522611 | Total Barium (Ba) | 2024/07/18 | 97 | 80 - 120 | 101 | 80 - 120 | <2.0 | ug/L | 0.33 (1) | 20 |
| 9522611 | Total Beryllium (Be) | 2024/07/18 | 105 | 80 - 120 | 107 | 80 - 120 | <0.40 | ug/L | NC (1) | 20 |
| 9522611 | Total Bismuth (Bi) | 2024/07/18 | 100 | 80 - 120 | 99 | 80 - 120 | <1.0 | ug/L | NC (1) | 20 |
| 9522611 | Total Boron (B) | 2024/07/18 | 103 | 80 - 120 | 107 | 80 - 120 | <10 | ug/L | 2.8 (1) | 20 |
| 9522611 | Total Cadmium (Cd) | 2024/07/18 | 98 | 80 - 120 | 100 | 80 - 120 | <0.090 | ug/L | NC (1) | 20 |
| 9522611 | Total Calcium (Ca) | 2024/07/18 | NC | 80 - 120 | 103 | 80 - 120 | <200 | ug/L | 1.2 (1) | 20 |
| 9522611 | Total Chromium (Cr) | 2024/07/18 | 95 | 80 - 120 | 95 | 80 - 120 | <5.0 | ug/L | NC (1) | 20 |
| 9522611 | Total Cobalt (Co) | 2024/07/18 | 101 | 80 - 120 | 101 | 80 - 120 | <0.50 | ug/L | NC (1) | 20 |
| 9522611 | Total Copper (Cu) | 2024/07/18 | 99 | 80 - 120 | 105 | 80 - 120 | <0.90 | ug/L | 0.74 (1) | 20 |
| 9522611 | Total Iron (Fe) | 2024/07/18 | 102 | 80 - 120 | 100 | 80 - 120 | <100 | ug/L | 0.25 (1) | 20 |
| 9522611 | Total Lead (Pb) | 2024/07/18 | 96 | 80 - 120 | 96 | 80 - 120 | <0.50 | ug/L | 0.81 (1) | 20 |
| 9522611 | Total Lithium (Li) | 2024/07/18 | 108 | 80 - 120 | 111 | 80 - 120 | <5.0 | ug/L | NC (1) | 20 |
| 9522611 | Total Magnesium (Mg) | 2024/07/18 | 99 | 80 - 120 | 100 | 80 - 120 | <50 | ug/L | 0.41 (1) | 20 |
| 9522611 | Total Manganese (Mn) | 2024/07/18 | 98 | 80 - 120 | 98 | 80 - 120 | <2.0 | ug/L | 3.8 (1) | 20 |
| 9522611 | Total Molybdenum (Mo) | 2024/07/18 | 95 | 80 - 120 | 97 | 80 - 120 | <0.50 | ug/L | 2.3 (1) | 20 |
| 9522611 | Total Nickel (Ni) | 2024/07/18 | 97 | 80 - 120 | 97 | 80 - 120 | <1.0 | ug/L | 12 (1) | 20 |
| 9522611 | Total Phosphorus (P) | 2024/07/18 | 97 | 80 - 120 | 97 | 80 - 120 | <100 | ug/L | NC (1) | 20 |
| 9522611 | Total Potassium (K) | 2024/07/18 | 103 | 80 - 120 | 102 | 80 - 120 | <200 | ug/L | 1.3 (1) | 20 |
| 9522611 | Total Selenium (Se) | 2024/07/18 | 105 | 80 - 120 | 105 | 80 - 120 | <2.0 | ug/L | NC (1) | 20 |
| 9522611 | Total Silicon (Si) | 2024/07/18 | 98 | 80 - 120 | 99 | 80 - 120 | <50 | ug/L | 3.4 (1) | 20 |
| 9522611 | Total Silver (Ag) | 2024/07/18 | 94 | 80 - 120 | 96 | 80 - 120 | <0.090 | ug/L | NC (1) | 20 |
| 9522611 | Total Sodium (Na) | 2024/07/18 | 100 | 80 - 120 | 102 | 80 - 120 | <100 | ug/L | 1.5 (1) | 20 |
| 9522611 | Total Strontium (Sr) | 2024/07/18 | 97 | 80 - 120 | 97 | 80 - 120 | <1.0 | ug/L | 1.7 (1) | 20 |
| 9522611 | Total Tellurium (Te) | 2024/07/18 | 99 | 80 - 120 | 98 | 80 - 120 | <1.0 | ug/L | NC (1) | 20 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)



| | | | Matrix Spike | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 9522611 | Total Thallium (Tl) | 2024/07/18 | 99 | 80 - 120 | 103 | 80 - 120 | <0.050 | ug/L | NC (1) | 20 |
| 9522611 | Total Tin (Sn) | 2024/07/18 | 100 | 80 - 120 | 101 | 80 - 120 | <1.0 | ug/L | NC (1) | 20 |
| 9522611 | Total Titanium (Ti) | 2024/07/18 | 99 | 80 - 120 | 99 | 80 - 120 | <5.0 | ug/L | 0.87 (1) | 20 |
| 9522611 | Total Tungsten (W) | 2024/07/18 | 99 | 80 - 120 | 98 | 80 - 120 | <1.0 | ug/L | NC (1) | 20 |
| 9522611 | Total Uranium (U) | 2024/07/18 | 100 | 80 - 120 | 101 | 80 - 120 | <0.10 | ug/L | 2.6 (1) | 20 |
| 9522611 | Total Vanadium (V) | 2024/07/18 | 97 | 80 - 120 | 98 | 80 - 120 | <0.50 | ug/L | 2.5 (1) | 20 |
| 9522611 | Total Zinc (Zn) | 2024/07/18 | 99 | 80 - 120 | 99 | 80 - 120 | <5.0 | ug/L | NC (1) | 20 |
| 9522611 | Total Zirconium (Zr) | 2024/07/18 | 104 | 80 - 120 | 105 | 80 - 120 | <1.0 | ug/L | NC (1) | 20 |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Duplicate Parent ID



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4K4525
Report Date: 2024/07/22

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

05-Jul-24 08:56
Ashton Gibson
C4K4525

SRS AIR-RmTmp

CAM FCD-01302 /3

bello Rd Toll Free: 1-800-668-0639
Ontario ,L5N 2L8 Phone: (905) 817-5700
.com Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / WSP Canada Inc.
Project Manager: Ryan Fletcher
e-mail: See comments below for email list
Address: 19 Young Street,
Red Lake, ON, CA, P0V 2M0
Phone: 1 647-283-4638 Fax:
Sampled by: JM + CB + EM + AP

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Run Time | Dust Fall Opening (Inner Diameter) | Dust Fall Opening (Outer Diameter) | Silica | PM 10 | PM 2.5 | Dustfall | TSP | Metals | Mercury | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bell Towers June Dustfall | | | Jun 1 - Jul 1 | 30 days | 5.5" | 6.5" | | | | X | | | | | | | |
| Teardrop June Dustfall | | | Jun 1 - Jul 1 | 30 days | 5.5" | 6.5" | | | | X | | | | | | | |
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**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: **CA0031272.9242**
Name: Kinross Project
PO #: P104312CA001
BV Quote #:
BV Contact: Jade Browne

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; ryan.fletcher@wsp.com; airgroup@woodplc.com; emily.meek@kinross.com; aaron.peloquin@kinross.com; curtis.bloemberg@kinross.com***

Client Signature: JM
Affiliation: Kinross
Date/Time: 7/2/2024

Received by: [illegible] SAMIRA BARZA
Affiliation:
Date/Time: 2024/07/05 08:56

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions*

Your P.O. #: P104312CA001
Your Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your C.O.C. #: N/A

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/08/23**
Report #: R8290231
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4O5141**
**Received: 2024/08/09, 10:07**

Sample Matrix: Water
# Samples Received: 4

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Mercury in Water by CVAA | 4 | 2024/08/21 | 2024/08/21 | CAM SOP-00453 | EPA 7470A m |
| Total Metals Analysis by ICPMS | 4 | 2024/08/22 | 2024/08/22 | CAM SOP-00447 | EPA 6020B m |
| Insoluble Part. in Dustfall (D1739mod) | 4 | 2024/08/15 | 2024/08/19 | BRL SOP-00121 | ASTM D1739 m |
| Soluble Part. in Dustfall (D1739mod) | 4 | 2024/08/15 | 2024/08/19 | BRL SOP-00121 | ASTM D1739 m |
| Volume of Sample Received | 4 | 2024/08/15 | 2024/08/19 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: P104312CA001
Your Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your C.O.C. #: N/A

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/08/23**
Report #: R8290231
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4O5141**
**Received: 2024/08/09, 10:07**

Encryption Key

Julian Tong
Project Manager Assistant
23 Aug 2024 17:08:47

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Bureau Veritas Job #: C4O5141
Report Date: 2024/08/23

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | ZYO343 | ZYO344 | ZYO345 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2024/08/01 | 2024/08/01 | 2024/08/01 | | |
| | UNITS | JULY BELL TOWERS DUSTFALL | JULY TEARDROP DUSTFALL | JULY RICE LAKE DUSTFALL | RDL | QC Batch |
| Insoluble Particulate | mg | <1.0 | 7.6 | <1.0 | 1.0 | 9584501 |
| Soluble Particulate | mg | 2.0 | 3.2 | <2.0 | 2.0 | 9584524 |
| **Charge/Prep Analysis** | | | | | | |
| Volume of sample | ml | 1 (1) | 1 (1) | 1 (1) | 1 | 9584481 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) “sample container was received dry. Added 200mls of RODI to reconstitute the residue”. Default volume of 1 is entered to facilitate calculation for the total dustfall.

| Bureau Veritas ID | | ZYO346 | | |
|---|---|---|---|---|
| Sampling Date | | 2024/08/01 | | |
| | UNITS | JULY RICE LAKE DUSTFALL DUPLICATE | RDL | QC Batch |
| Insoluble Particulate | mg | <1.0 | 1.0 | 9584501 |
| Soluble Particulate | mg | <2.0 | 2.0 | 9584524 |
| **Charge/Prep Analysis** | | | | |
| Volume of sample | ml | 1 (1) | 1 | 9584481 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) “sample container was received dry. Added 200mls of RODI to reconstitute the residue”. Default volume of 1 is entered to facilitate calculation for the total dustfall.


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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4O5141
Report Date: 2024/08/23

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

| Bureau Veritas ID | | ZYO343 | | ZYO344 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2024/08/01 | | 2024/08/01 | | |
| | UNITS | JULY BELL TOWERS DUSTFALL | RDL | JULY TEARDROP DUSTFALL | RDL | QC Batch |
| **Metals** | | | | | | |
| Mercury (Hg) | mg/L | <0.00010 | 0.00010 | <0.00010 | 0.00010 | 9590016 |
| Total Aluminum (Al) | ug/L | 11 | 4.9 | 150 | 4.9 | 9592415 |
| Total Antimony (Sb) | ug/L | 6.5 | 0.50 | 3.8 | 0.50 | 9592415 |
| Total Arsenic (As) | ug/L | <1.0 | 1.0 | <1.0 | 1.0 | 9592415 |
| Total Barium (Ba) | ug/L | 2.3 | 2.0 | 3.7 | 2.0 | 9592415 |
| Total Beryllium (Be) | ug/L | <0.40 | 0.40 | <0.40 | 0.40 | 9592415 |
| Total Bismuth (Bi) | ug/L | <1.0 | 1.0 | <1.0 | 1.0 | 9592415 |
| Total Boron (B) | ug/L | <10 | 10 | <10 | 10 | 9592415 |
| Total Cadmium (Cd) | ug/L | <0.090 | 0.090 | <0.090 | 0.090 | 9592415 |
| Total Calcium (Ca) | ug/L | 730 | 200 | 990 | 200 | 9592415 |
| Total Chromium (Cr) | ug/L | <5.0 | 5.0 | <5.0 | 5.0 | 9592415 |
| Total Cobalt (Co) | ug/L | <0.50 | 0.50 | <0.50 | 0.50 | 9592415 |
| Total Copper (Cu) | ug/L | <0.90 | 0.90 | 1.1 | 0.90 | 9592415 |
| Total Iron (Fe) | ug/L | <100 | 100 | 150 | 100 | 9592415 |
| Total Lead (Pb) | ug/L | <0.50 | 0.50 | <0.50 | 0.50 | 9592415 |
| Total Lithium (Li) | ug/L | <5.0 | 5.0 | <5.0 | 5.0 | 9592415 |
| Total Magnesium (Mg) | ug/L | 170 | 50 | 300 | 50 | 9592415 |
| Total Manganese (Mn) | ug/L | 18 | 2.0 | 25 | 2.0 | 9592415 |
| Total Molybdenum (Mo) | ug/L | <0.50 | 0.50 | <0.50 | 0.50 | 9592415 |
| Total Nickel (Ni) | ug/L | <1.0 | 1.0 | <1.0 | 1.0 | 9592415 |
| Total Phosphorus (P) | ug/L | <100 | 100 | 1600 | 500 | 9592415 |
| Total Potassium (K) | ug/L | 200 | 200 | 2600 | 200 | 9592415 |
| Total Selenium (Se) | ug/L | <2.0 | 2.0 | <2.0 | 2.0 | 9592415 |
| Total Silicon (Si) | ug/L | <50 | 50 | 170 | 50 | 9592415 |
| Total Silver (Ag) | ug/L | <0.090 | 0.090 | <0.090 | 0.090 | 9592415 |
| Total Sodium (Na) | ug/L | <100 | 100 | 110 | 100 | 9592415 |
| Total Strontium (Sr) | ug/L | 1.3 | 1.0 | 2.0 | 1.0 | 9592415 |
| Total Tellurium (Te) | ug/L | <1.0 | 1.0 | <1.0 | 1.0 | 9592415 |
| Total Thallium (Tl) | ug/L | <0.050 | 0.050 | <0.050 | 0.050 | 9592415 |
| Total Tin (Sn) | ug/L | <1.0 | 1.0 | <1.0 | 1.0 | 9592415 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4O5141
Report Date: 2024/08/23

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

| Bureau Veritas ID | | ZYO343 | | ZYO344 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2024/08/01 | | 2024/08/01 | | |
| | UNITS | JULY BELL TOWERS DUSTFALL | RDL | JULY TEARDROP DUSTFALL | RDL | QC Batch |
| Total Titanium (Ti) | ug/L | <5.0 | 5.0 | 13 | 5.0 | 9592415 |
| Total Tungsten (W) | ug/L | <1.0 | 1.0 | <1.0 | 1.0 | 9592415 |
| Total Uranium (U) | ug/L | <0.10 | 0.10 | <0.10 | 0.10 | 9592415 |
| Total Vanadium (V) | ug/L | <0.50 | 0.50 | <0.50 | 0.50 | 9592415 |
| Total Zinc (Zn) | ug/L | 5.5 | 5.0 | 7.6 | 5.0 | 9592415 |
| Total Zirconium (Zr) | ug/L | <1.0 | 1.0 | <1.0 | 1.0 | 9592415 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

| Bureau Veritas ID | | ZYO345 | ZYO346 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2024/08/01 | 2024/08/01 | | |
| | UNITS | JULY RICE LAKE DUSTFALL | JULY RICE LAKE DUSTFALL DUPLICATE | RDL | QC Batch |
| **Metals** | | | | | |
| Mercury (Hg) | mg/L | <0.00010 | <0.00010 | 0.00010 | 9590016 |
| Total Aluminum (Al) | ug/L | 16 | 14 | 4.9 | 9592415 |
| Total Antimony (Sb) | ug/L | 3.7 | 4.0 | 0.50 | 9592415 |
| Total Arsenic (As) | ug/L | <1.0 | <1.0 | 1.0 | 9592415 |
| Total Barium (Ba) | ug/L | 2.5 | 2.5 | 2.0 | 9592415 |
| Total Beryllium (Be) | ug/L | <0.40 | <0.40 | 0.40 | 9592415 |
| Total Bismuth (Bi) | ug/L | <1.0 | <1.0 | 1.0 | 9592415 |
| Total Boron (B) | ug/L | <10 | <10 | 10 | 9592415 |
| Total Cadmium (Cd) | ug/L | <0.090 | <0.090 | 0.090 | 9592415 |
| Total Calcium (Ca) | ug/L | 680 | 700 | 200 | 9592415 |
| Total Chromium (Cr) | ug/L | <5.0 | <5.0 | 5.0 | 9592415 |
| Total Cobalt (Co) | ug/L | <0.50 | <0.50 | 0.50 | 9592415 |
| Total Copper (Cu) | ug/L | <0.90 | <0.90 | 0.90 | 9592415 |
| Total Iron (Fe) | ug/L | <100 | <100 | 100 | 9592415 |
| Total Lead (Pb) | ug/L | <0.50 | <0.50 | 0.50 | 9592415 |
| Total Lithium (Li) | ug/L | <5.0 | <5.0 | 5.0 | 9592415 |
| Total Magnesium (Mg) | ug/L | 150 | 160 | 50 | 9592415 |
| Total Manganese (Mn) | ug/L | 15 | 15 | 2.0 | 9592415 |
| Total Molybdenum (Mo) | ug/L | <0.50 | <0.50 | 0.50 | 9592415 |
| Total Nickel (Ni) | ug/L | <1.0 | <1.0 | 1.0 | 9592415 |
| Total Phosphorus (P) | ug/L | <100 | <100 | 100 | 9592415 |
| Total Potassium (K) | ug/L | <200 | <200 | 200 | 9592415 |
| Total Selenium (Se) | ug/L | <2.0 | <2.0 | 2.0 | 9592415 |
| Total Silicon (Si) | ug/L | <50 | <50 | 50 | 9592415 |
| Total Silver (Ag) | ug/L | <0.090 | <0.090 | 0.090 | 9592415 |
| Total Sodium (Na) | ug/L | <100 | <100 | 100 | 9592415 |
| Total Strontium (Sr) | ug/L | 1.0 | 1.0 | 1.0 | 9592415 |
| Total Tellurium (Te) | ug/L | <1.0 | <1.0 | 1.0 | 9592415 |
| Total Thallium (Tl) | ug/L | <0.050 | <0.050 | 0.050 | 9592415 |
| Total Tin (Sn) | ug/L | <1.0 | <1.0 | 1.0 | 9592415 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4O5141
Report Date: 2024/08/23

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

| Bureau Veritas ID | | ZYO345 | ZYO346 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2024/08/01 | 2024/08/01 | | |
| | UNITS | JULY RICE LAKE DUSTFALL | JULY RICE LAKE DUSTFALL DUPLICATE | RDL | QC Batch |
| Total Titanium (Ti) | ug/L | <5.0 | <5.0 | 5.0 | 9592415 |
| Total Tungsten (W) | ug/L | <1.0 | <1.0 | 1.0 | 9592415 |
| Total Uranium (U) | ug/L | <0.10 | <0.10 | 0.10 | 9592415 |
| Total Vanadium (V) | ug/L | <0.50 | <0.50 | 0.50 | 9592415 |
| Total Zinc (Zn) | ug/L | <5.0 | <5.0 | 5.0 | 9592415 |
| Total Zirconium (Zr) | ug/L | <1.0 | <1.0 | 1.0 | 9592415 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4O5141
Report Date: 2024/08/23

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** ZYO343
**Sample ID:** JULY BELL TOWERS DUSTFALL
**Matrix:** Water
**Collected:** 2024/08/01
**Shipped:**
**Received:** 2024/08/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury in Water by CVAA | CV/AA | 9590016 | 2024/08/21 | 2024/08/21 | Aswathy Neduveli Suresh |
| Total Metals Analysis by ICPMS | ICP/MS | 9592415 | 2024/08/22 | 2024/08/22 | Indira HarryPaul |
| Insoluble Part. in Dustfall (D1739mod) | BAL | 9584501 | 2024/08/15 | 2024/08/19 | Joseph-Noel Andres |
| Soluble Part. in Dustfall (D1739mod) | BAL | 9584524 | 2024/08/15 | 2024/08/19 | Joseph-Noel Andres |
| Volume of Sample Received | | 9584481 | 2024/08/15 | 2024/08/19 | Joseph-Noel Andres |

**Bureau Veritas ID:** ZYO344
**Sample ID:** JULY TEARDROP DUSTFALL
**Matrix:** Water
**Collected:** 2024/08/01
**Shipped:**
**Received:** 2024/08/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury in Water by CVAA | CV/AA | 9590016 | 2024/08/21 | 2024/08/21 | Aswathy Neduveli Suresh |
| Total Metals Analysis by ICPMS | ICP/MS | 9592415 | 2024/08/22 | 2024/08/22 | Indira HarryPaul |
| Insoluble Part. in Dustfall (D1739mod) | BAL | 9584501 | 2024/08/15 | 2024/08/19 | Joseph-Noel Andres |
| Soluble Part. in Dustfall (D1739mod) | BAL | 9584524 | 2024/08/15 | 2024/08/19 | Joseph-Noel Andres |
| Volume of Sample Received | | 9584481 | 2024/08/15 | 2024/08/19 | Joseph-Noel Andres |

**Bureau Veritas ID:** ZYO345
**Sample ID:** JULY RICE LAKE DUSTFALL
**Matrix:** Water
**Collected:** 2024/08/01
**Shipped:**
**Received:** 2024/08/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury in Water by CVAA | CV/AA | 9590016 | 2024/08/21 | 2024/08/21 | Aswathy Neduveli Suresh |
| Total Metals Analysis by ICPMS | ICP/MS | 9592415 | 2024/08/22 | 2024/08/22 | Indira HarryPaul |
| Insoluble Part. in Dustfall (D1739mod) | BAL | 9584501 | 2024/08/15 | 2024/08/19 | Joseph-Noel Andres |
| Soluble Part. in Dustfall (D1739mod) | BAL | 9584524 | 2024/08/15 | 2024/08/19 | Joseph-Noel Andres |
| Volume of Sample Received | | 9584481 | 2024/08/15 | 2024/08/19 | Joseph-Noel Andres |

**Bureau Veritas ID:** ZYO346
**Sample ID:** JULY RICE LAKE DUSTFALL DUPLICATE
**Matrix:** Water
**Collected:** 2024/08/01
**Shipped:**
**Received:** 2024/08/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury in Water by CVAA | CV/AA | 9590016 | 2024/08/21 | 2024/08/21 | Aswathy Neduveli Suresh |
| Total Metals Analysis by ICPMS | ICP/MS | 9592415 | 2024/08/22 | 2024/08/22 | Indira HarryPaul |
| Insoluble Part. in Dustfall (D1739mod) | BAL | 9584501 | 2024/08/15 | 2024/08/19 | Joseph-Noel Andres |
| Soluble Part. in Dustfall (D1739mod) | BAL | 9584524 | 2024/08/15 | 2024/08/19 | Joseph-Noel Andres |
| Volume of Sample Received | | 9584481 | 2024/08/15 | 2024/08/19 | Joseph-Noel Andres |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

| | |
|---|---|
| Package 1 | 0.0°C |

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT



| | | | Matrix Spike | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 9584501 | Insoluble Particulate | 2024/08/20 | | | 94 | 85 - 115 | <1.0 | mg | | |
| 9584524 | Soluble Particulate | 2024/08/22 | | | 101 | 85 - 115 | <0.20 | mg | | |
| 9590016 | Mercury (Hg) | 2024/08/21 | 92 | 75 - 125 | 94 | 80 - 120 | <0.00010 | mg/L | NC (1) | 20 |
| 9592415 | Total Aluminum (Al) | 2024/08/22 | 95 | 80 - 120 | 93 | 80 - 120 | <4.9 | ug/L | 3.1 (1) | 20 |
| 9592415 | Total Antimony (Sb) | 2024/08/22 | 107 | 80 - 120 | 104 | 80 - 120 | <0.50 | ug/L | 0.69 (1) | 20 |
| 9592415 | Total Arsenic (As) | 2024/08/22 | 96 | 80 - 120 | 98 | 80 - 120 | <1.0 | ug/L | 4.0 (1) | 20 |
| 9592415 | Total Barium (Ba) | 2024/08/22 | 98 | 80 - 120 | 97 | 80 - 120 | <2.0 | ug/L | 6.4 (1) | 20 |
| 9592415 | Total Beryllium (Be) | 2024/08/22 | 103 | 80 - 120 | 97 | 80 - 120 | <0.40 | ug/L | NC (1) | 20 |
| 9592415 | Total Bismuth (Bi) | 2024/08/22 | 95 | 80 - 120 | 97 | 80 - 120 | <1.0 | ug/L | NC (1) | 20 |
| 9592415 | Total Boron (B) | 2024/08/22 | 98 | 80 - 120 | 94 | 80 - 120 | <10 | ug/L | 2.9 (1) | 20 |
| 9592415 | Total Cadmium (Cd) | 2024/08/22 | 100 | 80 - 120 | 98 | 80 - 120 | <0.090 | ug/L | NC (1) | 20 |
| 9592415 | Total Calcium (Ca) | 2024/08/22 | NC | 80 - 120 | 98 | 80 - 120 | <200 | ug/L | 4.5 (1) | 20 |
| 9592415 | Total Chromium (Cr) | 2024/08/22 | 100 | 80 - 120 | 99 | 80 - 120 | <5.0 | ug/L | 8.4 (1) | 20 |
| 9592415 | Total Cobalt (Co) | 2024/08/22 | 92 | 80 - 120 | 97 | 80 - 120 | <0.50 | ug/L | 5.7 (1) | 20 |
| 9592415 | Total Copper (Cu) | 2024/08/22 | 100 | 80 - 120 | 101 | 80 - 120 | <0.90 | ug/L | 3.8 (1) | 20 |
| 9592415 | Total Iron (Fe) | 2024/08/22 | NC | 80 - 120 | 101 | 80 - 120 | <100 | ug/L | 2.0 (1) | 20 |
| 9592415 | Total Lead (Pb) | 2024/08/22 | 94 | 80 - 120 | 97 | 80 - 120 | <0.50 | ug/L | 4.2 (1) | 20 |
| 9592415 | Total Lithium (Li) | 2024/08/22 | 110 | 80 - 120 | 96 | 80 - 120 | <5.0 | ug/L | NC (1) | 20 |
| 9592415 | Total Magnesium (Mg) | 2024/08/22 | 96 | 80 - 120 | 97 | 80 - 120 | <50 | ug/L | 0.060 (1) | 20 |
| 9592415 | Total Manganese (Mn) | 2024/08/22 | NC | 80 - 120 | 93 | 80 - 120 | <2.0 | ug/L | 8.4 (1) | 20 |
| 9592415 | Total Molybdenum (Mo) | 2024/08/22 | 107 | 80 - 120 | 102 | 80 - 120 | <0.50 | ug/L | 3.8 (1) | 20 |
| 9592415 | Total Nickel (Ni) | 2024/08/22 | 91 | 80 - 120 | 94 | 80 - 120 | 1.1, RDL=1.0 | ug/L | 5.2 (1) | 20 |
| 9592415 | Total Phosphorus (P) | 2024/08/22 | NC | 80 - 120 | 95 | 80 - 120 | <100 | ug/L | 3.3 (1) | 20 |
| 9592415 | Total Potassium (K) | 2024/08/22 | 97 | 80 - 120 | 96 | 80 - 120 | <200 | ug/L | 5.7 (1) | 20 |
| 9592415 | Total Selenium (Se) | 2024/08/22 | 99 | 80 - 120 | 102 | 80 - 120 | <2.0 | ug/L | NC (1) | 20 |
| 9592415 | Total Silicon (Si) | 2024/08/22 | 104 | 80 - 120 | 97 | 80 - 120 | <50 | ug/L | 6.6 (1) | 20 |
| 9592415 | Total Silver (Ag) | 2024/08/22 | 99 | 80 - 120 | 97 | 80 - 120 | <0.090 | ug/L | NC (1) | 20 |
| 9592415 | Total Sodium (Na) | 2024/08/22 | NC | 80 - 120 | 96 | 80 - 120 | <100 | ug/L | 9.1 (1) | 20 |
| 9592415 | Total Strontium (Sr) | 2024/08/22 | 95 | 80 - 120 | 95 | 80 - 120 | <1.0 | ug/L | 7.1 (1) | 20 |
| 9592415 | Total Tellurium (Te) | 2024/08/22 | 101 | 80 - 120 | 100 | 80 - 120 | <1.0 | ug/L | NC (1) | 20 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)



| | | | Matrix Spike | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 9592415 | Total Thallium (Tl) | 2024/08/22 | 96 | 80 - 120 | 98 | 80 - 120 | <0.050 | ug/L | NC (1) | 20 |
| 9592415 | Total Tin (Sn) | 2024/08/22 | 104 | 80 - 120 | 100 | 80 - 120 | <1.0 | ug/L | 2.4 (1) | 20 |
| 9592415 | Total Titanium (Ti) | 2024/08/22 | 96 | 80 - 120 | 96 | 80 - 120 | <5.0 | ug/L | 5.2 (1) | 20 |
| 9592415 | Total Tungsten (W) | 2024/08/22 | 102 | 80 - 120 | 99 | 80 - 120 | <1.0 | ug/L | NC (1) | 20 |
| 9592415 | Total Uranium (U) | 2024/08/22 | 97 | 80 - 120 | 99 | 80 - 120 | <0.10 | ug/L | 3.7 (1) | 20 |
| 9592415 | Total Vanadium (V) | 2024/08/22 | 92 | 80 - 120 | 92 | 80 - 120 | <0.50 | ug/L | 3.9 (1) | 20 |
| 9592415 | Total Zinc (Zn) | 2024/08/22 | NC | 80 - 120 | 100 | 80 - 120 | <5.0 | ug/L | 4.9 (1) | 20 |
| 9592415 | Total Zirconium (Zr) | 2024/08/22 | 105 | 80 - 120 | 99 | 80 - 120 | <1.0 | ug/L | NC (1) | 20 |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Duplicate Parent ID



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4O5141
Report Date: 2024/08/23

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

C4O5141
2024/08/09 10:07

# AIR

CAM FCD-01302 /3

6740 Campobello Rd
Mississauga Ontario ,L5N 2L8
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

## CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / WSP Canada Inc.
Project Manager: Ryan Fletcher
e-mail: See comments below for email list
Address: 19 Young Street,
Red Lake, ON, CA, P0V 2M0
Phone: 1 647-283-4638 Fax:
Sampled by: JM + CB + EM + AP

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Run Time | Dust Fall Opening (Inner Diameter) | Dust Fall Opening (Outer Diameter) | Silica | PM 10 | PM 2.5 | Dustfall | TSP | Metals | Mercury |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| July Bell Towers Dustfall | | | July 1 - Aug 1 | 31 Days | 5.5" | 6.5" | | | | X | | | |
| July Teardrop Dustfall | | | July 1 - Aug 1 | 31 Days | 5.5" | 6.5" | | | | X | | | |
| July Rice Lake Dustfall | | | July 1 - Aug 1 | 31 Days | 5.5" | 6.5" | | | | X | | | |
| July Rice Lake Dustfall Duplicate | | | July 1 - Aug 1 | 31 Days | 5.5" | 6.5" | | | | X | | | |

NONT-2024-08-1879

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: CA0031272.9242
Name: Kinross Project
PO #: P104312CA001
BV Quote #:
BV Contact: Jade Browne

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: GBR_ENV@kinross.com; importer@kinrossgreatbear.ehsdata.com; ryan.fletcher@wsp.com; airgroup@woodplc.com and include a .csv file in MonitorPro format***

Client Signature: CB
Affiliation: Kinross
Date/Time: 7/4/2024

Received by:
Affiliation:
Date/Time: 2024/08/09 10:07

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions*

Your P.O. #: P104312CA001
Your Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your C.O.C. #: N/A

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/08/23**
Report #: R8290231
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4O5141**
**Received: 2024/08/09, 10:07**

Sample Matrix: Water
# Samples Received: 4

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Mercury in Water by CVAA | 4 | 2024/08/21 | 2024/08/21 | CAM SOP-00453 | EPA 7470A m |
| Total Metals Analysis by ICPMS | 4 | 2024/08/22 | 2024/08/22 | CAM SOP-00447 | EPA 6020B m |
| Insoluble Part. in Dustfall (D1739mod) | 4 | 2024/08/15 | 2024/08/19 | BRL SOP-00121 | ASTM D1739 m |
| Soluble Part. in Dustfall (D1739mod) | 4 | 2024/08/15 | 2024/08/19 | BRL SOP-00121 | ASTM D1739 m |
| Volume of Sample Received | 4 | 2024/08/15 | 2024/08/19 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

Your P.O. #: P104312CA001
Your Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your C.O.C. #: N/A

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/08/23**
Report #: R8290231
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4O5141**
**Received: 2024/08/09, 10:07**

Encryption Key

Julian Tong
Project Manager Assistant
23 Aug 2024 17:08:48

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C4O5141
Report Date: 2024/08/23

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | ZYO343 | ZYO344 | ZYO345 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2024/08/01 | 2024/08/01 | 2024/08/01 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | JULY BELL TOWERS DUSTFALL | JULY TEARDROP DUSTFALL | JULY RICE LAKE DUSTFALL | RDL | QC Batch |
| Insoluble Particulate | mg | <1.0 | 7.6 | <1.0 | 1.0 | 9584501 |
| Soluble Particulate | mg | 2.0 | 3.2 | <2.0 | 2.0 | 9584524 |
| **Charge/Prep Analysis** | | | | | | |
| Volume of sample | ml | 1 (1) | 1 (1) | 1 (1) | 1 | 9584481 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) "sample container was received dry. Added 200mls of RODI to reconstitute the residue". Default volume of 1 is entered to facilitate calculation for the total dustfall.

| Bureau Veritas ID | | ZYO346 | | |
|---|---|---|---|---|
| Sampling Date | | 2024/08/01 | | |
| COC Number | | N/A | | |
| | UNITS | JULY RICE LAKE DUSTFALL DUPLICATE | RDL | QC Batch |
| Insoluble Particulate | mg | <1.0 | 1.0 | 9584501 |
| Soluble Particulate | mg | <2.0 | 2.0 | 9584524 |
| **Charge/Prep Analysis** | | | | |
| Volume of sample | ml | 1 (1) | 1 | 9584481 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) "sample container was received dry. Added 200mls of RODI to reconstitute the residue". Default volume of 1 is entered to facilitate calculation for the total dustfall.



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4O5141
Report Date: 2024/08/23

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

| Bureau Veritas ID | | ZYO343 | | ZYO344 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2024/08/01 | | 2024/08/01 | | |
| COC Number | | N/A | | N/A | | |
| | UNITS | JULY BELL TOWERS DUSTFALL | RDL | JULY TEARDROP DUSTFALL | RDL | QC Batch |
| **Metals** | | | | | | |
| Mercury (Hg) | mg/L | <0.00010 | 0.00010 | <0.00010 | 0.00010 | 9590016 |
| Total Aluminum (Al) | ug/L | 11 | 4.9 | 150 | 4.9 | 9592415 |
| Total Antimony (Sb) | ug/L | 6.5 | 0.50 | 3.8 | 0.50 | 9592415 |
| Total Arsenic (As) | ug/L | <1.0 | 1.0 | <1.0 | 1.0 | 9592415 |
| Total Barium (Ba) | ug/L | 2.3 | 2.0 | 3.7 | 2.0 | 9592415 |
| Total Beryllium (Be) | ug/L | <0.40 | 0.40 | <0.40 | 0.40 | 9592415 |
| Total Bismuth (Bi) | ug/L | <1.0 | 1.0 | <1.0 | 1.0 | 9592415 |
| Total Boron (B) | ug/L | <10 | 10 | <10 | 10 | 9592415 |
| Total Cadmium (Cd) | ug/L | <0.090 | 0.090 | <0.090 | 0.090 | 9592415 |
| Total Calcium (Ca) | ug/L | 730 | 200 | 990 | 200 | 9592415 |
| Total Chromium (Cr) | ug/L | <5.0 | 5.0 | <5.0 | 5.0 | 9592415 |
| Total Cobalt (Co) | ug/L | <0.50 | 0.50 | <0.50 | 0.50 | 9592415 |
| Total Copper (Cu) | ug/L | <0.90 | 0.90 | 1.1 | 0.90 | 9592415 |
| Total Iron (Fe) | ug/L | <100 | 100 | 150 | 100 | 9592415 |
| Total Lead (Pb) | ug/L | <0.50 | 0.50 | <0.50 | 0.50 | 9592415 |
| Total Lithium (Li) | ug/L | <5.0 | 5.0 | <5.0 | 5.0 | 9592415 |
| Total Magnesium (Mg) | ug/L | 170 | 50 | 300 | 50 | 9592415 |
| Total Manganese (Mn) | ug/L | 18 | 2.0 | 25 | 2.0 | 9592415 |
| Total Molybdenum (Mo) | ug/L | <0.50 | 0.50 | <0.50 | 0.50 | 9592415 |
| Total Nickel (Ni) | ug/L | <1.0 | 1.0 | <1.0 | 1.0 | 9592415 |
| Total Phosphorus (P) | ug/L | <100 | 100 | 1600 | 500 | 9592415 |
| Total Potassium (K) | ug/L | 200 | 200 | 2600 | 200 | 9592415 |
| Total Selenium (Se) | ug/L | <2.0 | 2.0 | <2.0 | 2.0 | 9592415 |
| Total Silicon (Si) | ug/L | <50 | 50 | 170 | 50 | 9592415 |
| Total Silver (Ag) | ug/L | <0.090 | 0.090 | <0.090 | 0.090 | 9592415 |
| Total Sodium (Na) | ug/L | <100 | 100 | 110 | 100 | 9592415 |
| Total Strontium (Sr) | ug/L | 1.3 | 1.0 | 2.0 | 1.0 | 9592415 |
| Total Tellurium (Te) | ug/L | <1.0 | 1.0 | <1.0 | 1.0 | 9592415 |
| Total Thallium (Tl) | ug/L | <0.050 | 0.050 | <0.050 | 0.050 | 9592415 |
| Total Tin (Sn) | ug/L | <1.0 | 1.0 | <1.0 | 1.0 | 9592415 |
| Total Titanium (Ti) | ug/L | <5.0 | 5.0 | 13 | 5.0 | 9592415 |
| Total Tungsten (W) | ug/L | <1.0 | 1.0 | <1.0 | 1.0 | 9592415 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4O5141
Report Date: 2024/08/23

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

| **Bureau Veritas ID** | | ZYO343 | | ZYO344 | | |
|---|---|---|---|---|---|---|
| **Sampling Date** | | 2024/08/01 | | 2024/08/01 | | |
| **COC Number** | | N/A | | N/A | | |
| | **UNITS** | **JULY BELL TOWERS DUSTFALL** | **RDL** | **JULY TEARDROP DUSTFALL** | **RDL** | **QC Batch** |
| Total Uranium (U) | ug/L | <0.10 | 0.10 | <0.10 | 0.10 | 9592415 |
| Total Vanadium (V) | ug/L | <0.50 | 0.50 | <0.50 | 0.50 | 9592415 |
| Total Zinc (Zn) | ug/L | 5.5 | 5.0 | 7.6 | 5.0 | 9592415 |
| Total Zirconium (Zr) | ug/L | <1.0 | 1.0 | <1.0 | 1.0 | 9592415 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

| Bureau Veritas ID | | ZYO345 | ZYO346 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2024/08/01 | 2024/08/01 | | |
| COC Number | | N/A | N/A | | |
| | UNITS | JULY RICE LAKE DUSTFALL | JULY RICE LAKE DUSTFALL DUPLICATE | RDL | QC Batch |
| **Metals** | | | | | |
| Mercury (Hg) | mg/L | <0.00010 | <0.00010 | 0.00010 | 9590016 |
| Total Aluminum (Al) | ug/L | 16 | 14 | 4.9 | 9592415 |
| Total Antimony (Sb) | ug/L | 3.7 | 4.0 | 0.50 | 9592415 |
| Total Arsenic (As) | ug/L | <1.0 | <1.0 | 1.0 | 9592415 |
| Total Barium (Ba) | ug/L | 2.5 | 2.5 | 2.0 | 9592415 |
| Total Beryllium (Be) | ug/L | <0.40 | <0.40 | 0.40 | 9592415 |
| Total Bismuth (Bi) | ug/L | <1.0 | <1.0 | 1.0 | 9592415 |
| Total Boron (B) | ug/L | <10 | <10 | 10 | 9592415 |
| Total Cadmium (Cd) | ug/L | <0.090 | <0.090 | 0.090 | 9592415 |
| Total Calcium (Ca) | ug/L | 680 | 700 | 200 | 9592415 |
| Total Chromium (Cr) | ug/L | <5.0 | <5.0 | 5.0 | 9592415 |
| Total Cobalt (Co) | ug/L | <0.50 | <0.50 | 0.50 | 9592415 |
| Total Copper (Cu) | ug/L | <0.90 | <0.90 | 0.90 | 9592415 |
| Total Iron (Fe) | ug/L | <100 | <100 | 100 | 9592415 |
| Total Lead (Pb) | ug/L | <0.50 | <0.50 | 0.50 | 9592415 |
| Total Lithium (Li) | ug/L | <5.0 | <5.0 | 5.0 | 9592415 |
| Total Magnesium (Mg) | ug/L | 150 | 160 | 50 | 9592415 |
| Total Manganese (Mn) | ug/L | 15 | 15 | 2.0 | 9592415 |
| Total Molybdenum (Mo) | ug/L | <0.50 | <0.50 | 0.50 | 9592415 |
| Total Nickel (Ni) | ug/L | <1.0 | <1.0 | 1.0 | 9592415 |
| Total Phosphorus (P) | ug/L | <100 | <100 | 100 | 9592415 |
| Total Potassium (K) | ug/L | <200 | <200 | 200 | 9592415 |
| Total Selenium (Se) | ug/L | <2.0 | <2.0 | 2.0 | 9592415 |
| Total Silicon (Si) | ug/L | <50 | <50 | 50 | 9592415 |
| Total Silver (Ag) | ug/L | <0.090 | <0.090 | 0.090 | 9592415 |
| Total Sodium (Na) | ug/L | <100 | <100 | 100 | 9592415 |
| Total Strontium (Sr) | ug/L | 1.0 | 1.0 | 1.0 | 9592415 |
| Total Tellurium (Te) | ug/L | <1.0 | <1.0 | 1.0 | 9592415 |
| Total Thallium (Tl) | ug/L | <0.050 | <0.050 | 0.050 | 9592415 |
| Total Tin (Sn) | ug/L | <1.0 | <1.0 | 1.0 | 9592415 |
| Total Titanium (Ti) | ug/L | <5.0 | <5.0 | 5.0 | 9592415 |
| Total Tungsten (W) | ug/L | <1.0 | <1.0 | 1.0 | 9592415 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4O5141
Report Date: 2024/08/23

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

| Bureau Veritas ID | | ZYO345 | ZYO346 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2024/08/01 | 2024/08/01 | | |
| COC Number | | N/A | N/A | | |
| | UNITS | JULY RICE LAKE DUSTFALL | JULY RICE LAKE DUSTFALL DUPLICATE | RDL | QC Batch |
| Total Uranium (U) | ug/L | <0.10 | <0.10 | 0.10 | 9592415 |
| Total Vanadium (V) | ug/L | <0.50 | <0.50 | 0.50 | 9592415 |
| Total Zinc (Zn) | ug/L | <5.0 | <5.0 | 5.0 | 9592415 |
| Total Zirconium (Zr) | ug/L | <1.0 | <1.0 | 1.0 | 9592415 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## GENERAL COMMENTS

**Results relate only to the items tested.**



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## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9584501 | JNA | Spiked Blank | Insoluble Particulate | 2024/08/20 | | 94 | % | 85 - 115 |
| 9584501 | JNA | Method Blank | Insoluble Particulate | 2024/08/20 | <1.0 | | mg | |
| 9584524 | JNA | Spiked Blank | Soluble Particulate | 2024/08/22 | | 101 | % | 85 - 115 |
| 9584524 | JNA | Method Blank | Soluble Particulate | 2024/08/22 | <0.20 | | mg | |
| 9590016 | ANF | Matrix Spike | Mercury (Hg) | 2024/08/21 | | 92 | % | 75 - 125 |
| 9590016 | ANF | Spiked Blank | Mercury (Hg) | 2024/08/21 | | 94 | % | 80 - 120 |
| 9590016 | ANF | Method Blank | Mercury (Hg) | 2024/08/21 | <0.00010 | | mg/L | |
| 9590016 | ANF | RPD | Mercury (Hg) | 2024/08/21 | NC | | % | 20 |
| | | | Mercury (Hg) | 2024/08/21 | NC | | % | 20 |
| | | | Mercury (Hg) | 2024/08/21 | NC | | % | 20 |
| | | | Mercury (Hg) | 2024/08/21 | NC | | % | 20 |
| | | | Mercury (Hg) | 2024/08/21 | NC | | % | 20 |
| | | | Mercury (Hg) | 2024/08/21 | NC | | % | 20 |
| | | | Mercury (Hg) | 2024/08/21 | NC | | % | 20 |
| 9592415 | IHP | Matrix Spike | Total Aluminum (Al) | 2024/08/22 | | 95 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2024/08/22 | | 107 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2024/08/22 | | 96 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2024/08/22 | | 98 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2024/08/22 | | 103 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2024/08/22 | | 95 | % | 80 - 120 |
| | | | Total Boron (B) | 2024/08/22 | | 98 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2024/08/22 | | 100 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2024/08/22 | | NC | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2024/08/22 | | 100 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2024/08/22 | | 92 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2024/08/22 | | 100 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2024/08/22 | | NC | % | 80 - 120 |
| | | | Total Lead (Pb) | 2024/08/22 | | 94 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2024/08/22 | | 110 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2024/08/22 | | 96 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2024/08/22 | | NC | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2024/08/22 | | 107 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2024/08/22 | | 91 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2024/08/22 | | NC | % | 80 - 120 |
| | | | Total Potassium (K) | 2024/08/22 | | 97 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2024/08/22 | | 99 | % | 80 - 120 |
| | | | Total Silicon (Si) | 2024/08/22 | | 104 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2024/08/22 | | 99 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2024/08/22 | | NC | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2024/08/22 | | 95 | % | 80 - 120 |
| | | | Total Tellurium (Te) | 2024/08/22 | | 101 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2024/08/22 | | 96 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2024/08/22 | | 104 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2024/08/22 | | 96 | % | 80 - 120 |
| | | | Total Tungsten (W) | 2024/08/22 | | 102 | % | 80 - 120 |
| | | | Total Uranium (U) | 2024/08/22 | | 97 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2024/08/22 | | 92 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2024/08/22 | | NC | % | 80 - 120 |
| | | | Total Zirconium (Zr) | 2024/08/22 | | 105 | % | 80 - 120 |
| 9592415 | IHP | Spiked Blank | Total Aluminum (Al) | 2024/08/22 | | 93 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Antimony (Sb) | 2024/08/22 | | 104 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2024/08/22 | | 98 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2024/08/22 | | 97 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2024/08/22 | | 97 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2024/08/22 | | 97 | % | 80 - 120 |
| | | | Total Boron (B) | 2024/08/22 | | 94 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2024/08/22 | | 98 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2024/08/22 | | 98 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2024/08/22 | | 99 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2024/08/22 | | 97 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2024/08/22 | | 101 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2024/08/22 | | 101 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2024/08/22 | | 97 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2024/08/22 | | 96 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2024/08/22 | | 97 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2024/08/22 | | 93 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2024/08/22 | | 102 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2024/08/22 | | 94 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2024/08/22 | | 95 | % | 80 - 120 |
| | | | Total Potassium (K) | 2024/08/22 | | 96 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2024/08/22 | | 102 | % | 80 - 120 |
| | | | Total Silicon (Si) | 2024/08/22 | | 97 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2024/08/22 | | 97 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2024/08/22 | | 96 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2024/08/22 | | 95 | % | 80 - 120 |
| | | | Total Tellurium (Te) | 2024/08/22 | | 100 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2024/08/22 | | 98 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2024/08/22 | | 100 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2024/08/22 | | 96 | % | 80 - 120 |
| | | | Total Tungsten (W) | 2024/08/22 | | 99 | % | 80 - 120 |
| | | | Total Uranium (U) | 2024/08/22 | | 99 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2024/08/22 | | 92 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2024/08/22 | | 100 | % | 80 - 120 |
| | | | Total Zirconium (Zr) | 2024/08/22 | | 99 | % | 80 - 120 |
| 9592415 | IHP | Method Blank | Total Aluminum (Al) | 2024/08/22 | <4.9 | | ug/L | |
| | | | Total Antimony (Sb) | 2024/08/22 | <0.50 | | ug/L | |
| | | | Total Arsenic (As) | 2024/08/22 | <1.0 | | ug/L | |
| | | | Total Barium (Ba) | 2024/08/22 | <2.0 | | ug/L | |
| | | | Total Beryllium (Be) | 2024/08/22 | <0.40 | | ug/L | |
| | | | Total Bismuth (Bi) | 2024/08/22 | <1.0 | | ug/L | |
| | | | Total Boron (B) | 2024/08/22 | <10 | | ug/L | |
| | | | Total Cadmium (Cd) | 2024/08/22 | <0.090 | | ug/L | |
| | | | Total Calcium (Ca) | 2024/08/22 | <200 | | ug/L | |
| | | | Total Chromium (Cr) | 2024/08/22 | <5.0 | | ug/L | |
| | | | Total Cobalt (Co) | 2024/08/22 | <0.50 | | ug/L | |
| | | | Total Copper (Cu) | 2024/08/22 | <0.90 | | ug/L | |
| | | | Total Iron (Fe) | 2024/08/22 | <100 | | ug/L | |
| | | | Total Lead (Pb) | 2024/08/22 | <0.50 | | ug/L | |
| | | | Total Lithium (Li) | 2024/08/22 | <5.0 | | ug/L | |
| | | | Total Magnesium (Mg) | 2024/08/22 | <50 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Manganese (Mn) | 2024/08/22 | <2.0 | | ug/L | |
| | | | Total Molybdenum (Mo) | 2024/08/22 | <0.50 | | ug/L | |
| | | | Total Nickel (Ni) | 2024/08/22 | 1.1, RDL=1.0 | | ug/L | |
| | | | Total Phosphorus (P) | 2024/08/22 | <100 | | ug/L | |
| | | | Total Potassium (K) | 2024/08/22 | <200 | | ug/L | |
| | | | Total Selenium (Se) | 2024/08/22 | <2.0 | | ug/L | |
| | | | Total Silicon (Si) | 2024/08/22 | <50 | | ug/L | |
| | | | Total Silver (Ag) | 2024/08/22 | <0.090 | | ug/L | |
| | | | Total Sodium (Na) | 2024/08/22 | <100 | | ug/L | |
| | | | Total Strontium (Sr) | 2024/08/22 | <1.0 | | ug/L | |
| | | | Total Tellurium (Te) | 2024/08/22 | <1.0 | | ug/L | |
| | | | Total Thallium (Tl) | 2024/08/22 | <0.050 | | ug/L | |
| | | | Total Tin (Sn) | 2024/08/22 | <1.0 | | ug/L | |
| | | | Total Titanium (Ti) | 2024/08/22 | <5.0 | | ug/L | |
| | | | Total Tungsten (W) | 2024/08/22 | <1.0 | | ug/L | |
| | | | Total Uranium (U) | 2024/08/22 | <0.10 | | ug/L | |
| | | | Total Vanadium (V) | 2024/08/22 | <0.50 | | ug/L | |
| | | | Total Zinc (Zn) | 2024/08/22 | <5.0 | | ug/L | |
| | | | Total Zirconium (Zr) | 2024/08/22 | <1.0 | | ug/L | |
| 9592415 | IHP | RPD | Total Aluminum (Al) | 2024/08/22 | 3.1 | | % | 20 |
| | | | Total Antimony (Sb) | 2024/08/22 | 0.69 | | % | 20 |
| | | | Total Arsenic (As) | 2024/08/22 | 4.0 | | % | 20 |
| | | | Total Barium (Ba) | 2024/08/22 | 6.4 | | % | 20 |
| | | | Total Beryllium (Be) | 2024/08/22 | NC | | % | 20 |
| | | | Total Bismuth (Bi) | 2024/08/22 | NC | | % | 20 |
| | | | Total Boron (B) | 2024/08/22 | 2.9 | | % | 20 |
| | | | Total Cadmium (Cd) | 2024/08/22 | NC | | % | 20 |
| | | | Total Calcium (Ca) | 2024/08/22 | 4.5 | | % | 20 |
| | | | Total Chromium (Cr) | 2024/08/22 | 8.4 | | % | 20 |
| | | | Total Cobalt (Co) | 2024/08/22 | 5.7 | | % | 20 |
| | | | Total Copper (Cu) | 2024/08/22 | 3.8 | | % | 20 |
| | | | Total Iron (Fe) | 2024/08/22 | 2.0 | | % | 20 |
| | | | Total Lead (Pb) | 2024/08/22 | 4.2 | | % | 20 |
| | | | Total Lithium (Li) | 2024/08/22 | NC | | % | 20 |
| | | | Total Magnesium (Mg) | 2024/08/22 | 0.060 | | % | 20 |
| | | | Total Manganese (Mn) | 2024/08/22 | 8.4 | | % | 20 |
| | | | Total Molybdenum (Mo) | 2024/08/22 | 3.8 | | % | 20 |
| | | | Total Nickel (Ni) | 2024/08/22 | 5.2 | | % | 20 |
| | | | Total Phosphorus (P) | 2024/08/22 | 3.3 | | % | 20 |
| | | | Total Potassium (K) | 2024/08/22 | 5.7 | | % | 20 |
| | | | Total Selenium (Se) | 2024/08/22 | NC | | % | 20 |
| | | | Total Silicon (Si) | 2024/08/22 | 6.6 | | % | 20 |
| | | | Total Silver (Ag) | 2024/08/22 | NC | | % | 20 |
| | | | Total Sodium (Na) | 2024/08/22 | 9.1 | | % | 20 |
| | | | Total Strontium (Sr) | 2024/08/22 | 7.1 | | % | 20 |
| | | | Total Tellurium (Te) | 2024/08/22 | NC | | % | 20 |
| | | | Total Thallium (Tl) | 2024/08/22 | NC | | % | 20 |
| | | | Total Tin (Sn) | 2024/08/22 | 2.4 | | % | 20 |
| | | | Total Titanium (Ti) | 2024/08/22 | 5.2 | | % | 20 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Tungsten (W) | 2024/08/22 | NC | | % | 20 |
| | | | Total Uranium (U) | 2024/08/22 | 3.7 | | % | 20 |
| | | | Total Vanadium (V) | 2024/08/22 | 3.9 | | % | 20 |
| | | | Total Zinc (Zn) | 2024/08/22 | 4.9 | | % | 20 |
| | | | Total Zirconium (Zr) | 2024/08/22 | NC | | % | 20 |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4O5141
Report Date: 2024/08/23

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: P104312CA001
Your Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your C.O.C. #: N/A

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/09/24**
Report #: R8332931
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4R9835**
**Received: 2024/09/09, 09:58**

Sample Matrix: Water
# Samples Received: 4

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Mercury in Water by CVAA | 4 | 2024/09/20 | 2024/09/20 | CAM SOP-00453 | EPA 7470A m |
| Total Metals Analysis by ICPMS | 4 | 2024/09/20 | 2024/09/20 | CAM SOP-00447 | EPA 6020B m |
| Insoluble Part. in Dustfall (D1739mod) | 4 | 2024/09/18 | 2024/09/18 | BRL SOP-00121 | ASTM D1739 m |
| Soluble Part. in Dustfall (D1739mod) | 4 | 2024/09/18 | 2024/09/20 | BRL SOP-00121 | ASTM D1739 m |
| Volume of Sample Received | 4 | 2024/09/18 | 2024/09/18 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: P104312CA001
Your Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your C.O.C. #: N/A

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/09/24**
Report #: R8332931
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4R9835**
**Received: 2024/09/09, 09:58**

Encryption Key

Cristina (Maria) Bacchus
Project Manager
24 Sep 2024 12:54:09

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C4R9835
Report Date: 2024/09/24

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | ACEY93 | ACEY94 | | ACEY95 | ACEY96 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/09/01 | 2024/09/01 | | 2024/09/01 | 2024/09/01 | | |
| | UNITS | AUGUST BELL TOWERS DUSTFALL | AUGUST TEARDROP DUSTFALL | RDL | AUGUST RICE LAKE DUSTFALL | AUGUST RICE LAKE DUSTFALL DUPLICATE | RDL | QC Batch |
| Insoluble Particulate | mg | 4.0 (1) | 12.6 (1) | 2.0 | 3.8 (1) | 3.2 (1) | 2.0 | 9645659 |
| Soluble Particulate | mg | <4.0 (1) | 5.2 (1) | 4.0 | 12.8 (1) | <3.4 (1) | 3.4 | 9645661 |
| **Charge/Prep Analysis** | | | | | | | | |
| Volume of sample | ml | 430 | 330 | 1 | 170 | 170 | 1 | 9645658 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) 50% of sample volume was processed for dustfall; remaining 50% of sample volume was sent to Inorganic Processing for further metals and Hg analysis.
Results and DL were multiplied by 2.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4R9835
Report Date: 2024/09/24

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

| Bureau Veritas ID | | ACEY93 | ACEY94 | ACEY95 | ACEY96 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/09/01 | 2024/09/01 | 2024/09/01 | 2024/09/01 | | |
| | UNITS | AUGUST BELL TOWERS DUSTFALL | AUGUST TEARDROP DUSTFALL | AUGUST RICE LAKE DUSTFALL | AUGUST RICE LAKE DUSTFALL DUPLICATE | RDL | QC Batch |
| **Metals** | | | | | | | |
| Mercury (Hg) | mg/L | <0.00010 | <0.00010 | <0.00010 | <0.00010 | 0.00010 | 9651574 |
| Total Aluminum (Al) | ug/L | <4.9 | 72 | 56 | 50 | 4.9 | 9651863 |
| Total Antimony (Sb) | ug/L | 2.5 | 4.2 | 4.2 | 5.7 | 0.50 | 9651863 |
| Total Arsenic (As) | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9651863 |
| Total Barium (Ba) | ug/L | <2.0 | <2.0 | 2.5 | 7.7 | 2.0 | 9651863 |
| Total Beryllium (Be) | ug/L | <0.40 | <0.40 | <0.40 | <0.40 | 0.40 | 9651863 |
| Total Bismuth (Bi) | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9651863 |
| Total Boron (B) | ug/L | <10 | <10 | <10 | <10 | 10 | 9651863 |
| Total Cadmium (Cd) | ug/L | <0.090 | <0.090 | <0.090 | <0.090 | 0.090 | 9651863 |
| Total Calcium (Ca) | ug/L | 460 | 420 | 780 | 820 | 200 | 9651863 |
| Total Chromium (Cr) | ug/L | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 9651863 |
| Total Cobalt (Co) | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9651863 |
| Total Copper (Cu) | ug/L | <0.90 | <0.90 | <0.90 | <0.90 | 0.90 | 9651863 |
| Total Iron (Fe) | ug/L | <100 | <100 | <100 | <100 | 100 | 9651863 |
| Total Lead (Pb) | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9651863 |
| Total Lithium (Li) | ug/L | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 9651863 |
| Total Magnesium (Mg) | ug/L | 89 | 120 | 200 | 200 | 50 | 9651863 |
| Total Manganese (Mn) | ug/L | <2.0 | 2.6 | 7.7 | 3.9 | 2.0 | 9651863 |
| Total Molybdenum (Mo) | ug/L | <0.50 | <0.50 | 0.65 | <0.50 | 0.50 | 9651863 |
| Total Nickel (Ni) | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9651863 |
| Total Phosphorus (P) | ug/L | <100 | <100 | 110 | <100 | 100 | 9651863 |
| Total Potassium (K) | ug/L | <200 | <200 | 210 | 220 | 200 | 9651863 |
| Total Selenium (Se) | ug/L | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 9651863 |
| Total Silicon (Si) | ug/L | <50 | 88 | 100 | 93 | 50 | 9651863 |
| Total Silver (Ag) | ug/L | <0.090 | <0.090 | <0.090 | <0.090 | 0.090 | 9651863 |
| Total Sodium (Na) | ug/L | <100 | <100 | <100 | <100 | 100 | 9651863 |
| Total Strontium (Sr) | ug/L | <1.0 | <1.0 | 1.3 | 1.3 | 1.0 | 9651863 |
| Total Tellurium (Te) | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9651863 |
| Total Thallium (Tl) | ug/L | <0.050 | <0.050 | <0.050 | <0.050 | 0.050 | 9651863 |
| Total Tin (Sn) | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9651863 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4R9835
Report Date: 2024/09/24

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

| Bureau Veritas ID | | ACEY93 | ACEY94 | ACEY95 | ACEY96 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/09/01 | 2024/09/01 | 2024/09/01 | 2024/09/01 | | |
| | UNITS | AUGUST BELL TOWERS DUSTFALL | AUGUST TEARDROP DUSTFALL | AUGUST RICE LAKE DUSTFALL | AUGUST RICE LAKE DUSTFALL DUPLICATE | RDL | QC Batch |
| Total Titanium (Ti) | ug/L | <5.0 | 5.3 | <5.0 | <5.0 | 5.0 | 9651863 |
| Total Tungsten (W) | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9651863 |
| Total Uranium (U) | ug/L | <0.10 | <0.10 | <0.10 | <0.10 | 0.10 | 9651863 |
| Total Vanadium (V) | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9651863 |
| Total Zinc (Zn) | ug/L | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 9651863 |
| Total Zirconium (Zr) | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9651863 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4R9835
Report Date: 2024/09/24

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** ACEY93
**Sample ID:** AUGUST BELL TOWERS DUSTFALL
**Matrix:** Water
**Collected:** 2024/09/01
**Shipped:**
**Received:** 2024/09/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury in Water by CVAA | CV/AA | 9651574 | 2024/09/20 | 2024/09/20 | Maitri PATIL |
| Total Metals Analysis by ICPMS | ICP/MS | 9651863 | 2024/09/20 | 2024/09/20 | Indira HarryPaul |
| Insoluble Part. in Dustfall (D1739mod) | BAL | 9645659 | 2024/09/18 | 2024/09/18 | Joseph-Noel Andres |
| Soluble Part. in Dustfall (D1739mod) | BAL | 9645661 | 2024/09/18 | 2024/09/20 | Joseph-Noel Andres |
| Volume of Sample Received | | 9645658 | 2024/09/18 | 2024/09/18 | Joseph-Noel Andres |

**Bureau Veritas ID:** ACEY94
**Sample ID:** AUGUST TEARDROP DUSTFALL
**Matrix:** Water
**Collected:** 2024/09/01
**Shipped:**
**Received:** 2024/09/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury in Water by CVAA | CV/AA | 9651574 | 2024/09/20 | 2024/09/20 | Maitri PATIL |
| Total Metals Analysis by ICPMS | ICP/MS | 9651863 | 2024/09/20 | 2024/09/20 | Indira HarryPaul |
| Insoluble Part. in Dustfall (D1739mod) | BAL | 9645659 | 2024/09/18 | 2024/09/18 | Joseph-Noel Andres |
| Soluble Part. in Dustfall (D1739mod) | BAL | 9645661 | 2024/09/18 | 2024/09/20 | Joseph-Noel Andres |
| Volume of Sample Received | | 9645658 | 2024/09/18 | 2024/09/18 | Joseph-Noel Andres |

**Bureau Veritas ID:** ACEY95
**Sample ID:** AUGUST RICE LAKE DUSTFALL
**Matrix:** Water
**Collected:** 2024/09/01
**Shipped:**
**Received:** 2024/09/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury in Water by CVAA | CV/AA | 9651574 | 2024/09/20 | 2024/09/20 | Maitri PATIL |
| Total Metals Analysis by ICPMS | ICP/MS | 9651863 | 2024/09/20 | 2024/09/20 | Indira HarryPaul |
| Insoluble Part. in Dustfall (D1739mod) | BAL | 9645659 | 2024/09/18 | 2024/09/18 | Joseph-Noel Andres |
| Soluble Part. in Dustfall (D1739mod) | BAL | 9645661 | 2024/09/18 | 2024/09/20 | Joseph-Noel Andres |
| Volume of Sample Received | | 9645658 | 2024/09/18 | 2024/09/18 | Joseph-Noel Andres |

**Bureau Veritas ID:** ACEY96
**Sample ID:** AUGUST RICE LAKE DUSTFALL DUPLICATE
**Matrix:** Water
**Collected:** 2024/09/01
**Shipped:**
**Received:** 2024/09/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury in Water by CVAA | CV/AA | 9651574 | 2024/09/20 | 2024/09/20 | Maitri PATIL |
| Total Metals Analysis by ICPMS | ICP/MS | 9651863 | 2024/09/20 | 2024/09/20 | Indira HarryPaul |
| Insoluble Part. in Dustfall (D1739mod) | BAL | 9645659 | 2024/09/18 | 2024/09/18 | Joseph-Noel Andres |
| Soluble Part. in Dustfall (D1739mod) | BAL | 9645661 | 2024/09/18 | 2024/09/20 | Joseph-Noel Andres |
| Volume of Sample Received | | 9645658 | 2024/09/18 | 2024/09/18 | Joseph-Noel Andres |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

Metals Analysis: Samples submitted unpreserved. Analysis performed with client's consent.
Mercury Analysis: Samples submitted unpreserved and in an incorrect bottle type. Analysis performed with client's consent.

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT



| | | | Matrix Spike | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 9645659 | Insoluble Particulate | 2024/09/18 | | | 104 | 85 - 115 | <1.0 | mg | | |
| 9645661 | Soluble Particulate | 2024/09/20 | | | 97 | 85 - 115 | <0.20 | mg | | |
| 9651574 | Mercury (Hg) | 2024/09/20 | 100 | 75 - 125 | 98 | 80 - 120 | <0.00010 | mg/L | NC (1) | 20 |
| 9651863 | Total Aluminum (Al) | 2024/09/20 | NC (2) | 80 - 120 | 101 | 80 - 120 | <4.9 | ug/L | | |
| 9651863 | Total Antimony (Sb) | 2024/09/20 | NC (2) | 80 - 120 | 105 | 80 - 120 | <0.50 | ug/L | | |
| 9651863 | Total Arsenic (As) | 2024/09/20 | NC (2) | 80 - 120 | 103 | 80 - 120 | <1.0 | ug/L | | |
| 9651863 | Total Barium (Ba) | 2024/09/20 | NC (2) | 80 - 120 | 99 | 80 - 120 | <2.0 | ug/L | | |
| 9651863 | Total Beryllium (Be) | 2024/09/20 | NC (2) | 80 - 120 | 103 | 80 - 120 | <0.40 | ug/L | | |
| 9651863 | Total Bismuth (Bi) | 2024/09/20 | NC (2) | 80 - 120 | 99 | 80 - 120 | <1.0 | ug/L | | |
| 9651863 | Total Boron (B) | 2024/09/20 | NC (2) | 80 - 120 | 100 | 80 - 120 | <10 | ug/L | | |
| 9651863 | Total Cadmium (Cd) | 2024/09/20 | NC (2) | 80 - 120 | 99 | 80 - 120 | <0.090 | ug/L | | |
| 9651863 | Total Calcium (Ca) | 2024/09/20 | NC (2) | 80 - 120 | 104 | 80 - 120 | <200 | ug/L | | |
| 9651863 | Total Chromium (Cr) | 2024/09/20 | NC (2) | 80 - 120 | 96 | 80 - 120 | <5.0 | ug/L | | |
| 9651863 | Total Cobalt (Co) | 2024/09/20 | NC (2) | 80 - 120 | 102 | 80 - 120 | <0.50 | ug/L | | |
| 9651863 | Total Copper (Cu) | 2024/09/20 | NC (2) | 80 - 120 | 98 | 80 - 120 | <0.90 | ug/L | | |
| 9651863 | Total Iron (Fe) | 2024/09/20 | NC (2) | 80 - 120 | 101 | 80 - 120 | <100 | ug/L | | |
| 9651863 | Total Lead (Pb) | 2024/09/20 | NC (2) | 80 - 120 | 99 | 80 - 120 | <0.50 | ug/L | | |
| 9651863 | Total Lithium (Li) | 2024/09/20 | NC (2) | 80 - 120 | 115 | 80 - 120 | <5.0 | ug/L | | |
| 9651863 | Total Magnesium (Mg) | 2024/09/20 | NC (2) | 80 - 120 | 104 | 80 - 120 | <50 | ug/L | | |
| 9651863 | Total Manganese (Mn) | 2024/09/20 | NC (2) | 80 - 120 | 99 | 80 - 120 | <2.0 | ug/L | | |
| 9651863 | Total Molybdenum (Mo) | 2024/09/20 | NC (2) | 80 - 120 | 102 | 80 - 120 | <0.50 | ug/L | | |
| 9651863 | Total Nickel (Ni) | 2024/09/20 | NC (2) | 80 - 120 | 95 | 80 - 120 | <1.0 | ug/L | | |
| 9651863 | Total Phosphorus (P) | 2024/09/20 | NC (2) | 80 - 120 | 100 | 80 - 120 | <100 | ug/L | | |
| 9651863 | Total Potassium (K) | 2024/09/20 | NC (2) | 80 - 120 | 102 | 80 - 120 | <200 | ug/L | | |
| 9651863 | Total Selenium (Se) | 2024/09/20 | NC (2) | 80 - 120 | 106 | 80 - 120 | <2.0 | ug/L | | |
| 9651863 | Total Silicon (Si) | 2024/09/20 | NC (2) | 80 - 120 | 99 | 80 - 120 | <50 | ug/L | | |
| 9651863 | Total Silver (Ag) | 2024/09/20 | NC (2) | 80 - 120 | 95 | 80 - 120 | <0.090 | ug/L | | |
| 9651863 | Total Sodium (Na) | 2024/09/20 | NC (2) | 80 - 120 | 102 | 80 - 120 | <100 | ug/L | | |
| 9651863 | Total Strontium (Sr) | 2024/09/20 | NC (2) | 80 - 120 | 99 | 80 - 120 | <1.0 | ug/L | | |
| 9651863 | Total Tellurium (Te) | 2024/09/20 | NC (2) | 80 - 120 | 103 | 80 - 120 | <1.0 | ug/L | | |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)



| | | | Matrix Spike | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 9651863 | Total Thallium (Tl) | 2024/09/20 | NC (2) | 80 - 120 | 102 | 80 - 120 | <0.050 | ug/L | | |
| 9651863 | Total Tin (Sn) | 2024/09/20 | NC (2) | 80 - 120 | 99 | 80 - 120 | <1.0 | ug/L | | |
| 9651863 | Total Titanium (Ti) | 2024/09/20 | NC (2) | 80 - 120 | 101 | 80 - 120 | <5.0 | ug/L | | |
| 9651863 | Total Tungsten (W) | 2024/09/20 | NC (2) | 80 - 120 | 103 | 80 - 120 | <1.0 | ug/L | | |
| 9651863 | Total Uranium (U) | 2024/09/20 | NC (2) | 80 - 120 | 104 | 80 - 120 | <0.10 | ug/L | | |
| 9651863 | Total Vanadium (V) | 2024/09/20 | NC (2) | 80 - 120 | 98 | 80 - 120 | <0.50 | ug/L | | |
| 9651863 | Total Zinc (Zn) | 2024/09/20 | NC (2) | 80 - 120 | 104 | 80 - 120 | <5.0 | ug/L | | |
| 9651863 | Total Zirconium (Zr) | 2024/09/20 | NC (2) | 80 - 120 | 101 | 80 - 120 | <1.0 | ug/L | | |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Duplicate Parent ID

(2) The recovery in the matrix spike was not calculated (NC) due to background interference.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4R9835
Report Date: 2024/09/24

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

C4R9835
2024/09/09 09:58

AIR

CAM FCD-01302 /3

BUREAU VERITAS

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Mississauga Ontario ,L5N 2L8
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / WSP Canada Inc.
Project Manager: Ryan Fletcher
e-mail: See comments below for email list
Address: 19 Young Street, Red Lake, ON, CA, P0V 2M0
Phone: 1 647-283-4638 Fax:
Sampled by: JM + CB + EM + AP

**SECTION**

NONT-2024-09-1276

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Run Time | Dust Fall Opening (Inner Diameter) | Dust Fall Opening (Outer Diameter) | Silica | PM 10 | PM 2.5 | Dustfall | TSP | Metals | Mercury |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| August Bell Towers Dustfall | | | Sep 1 2024 | Aug 1 - Sep 1 | 5.5" | 6.5" | | | | X | | | |
| August Teardrop Dustfall | | | Sep 1 2024 | Aug 1 - Sep 1 | 5.5" | 6.5" | | | | X | | | |
| August Rice Lake Dustfall | | | Sep 1 2024 | Aug 1 - Sep 1 | 5.5" | 6.5" | | | | X | | | |
| August Rice Lake Dustfall Duplicate | | | Sep 1 2024 | Aug 1 - Sep 1 | 5.5" | 6.5" | | | | X | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: CA0031272.9242
Name: Kinross Project
PO #: P104312CA001
BV Quote #:
BV Contact: Jade Browne

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: GBR_ENV@kinross.com; importer@kinrossgreatbear.ehsdata.com; ryan.fletcher@wsp.com; airgroup@woodplc.com and include a .csv file in MonitorPro format***

Client Signature: EM
Affiliation: Kinross
Date/Time: 9/4/2024

Received by:
Affiliation:
Date/Time: 2024/9/9 0958

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions*

Your P.O. #: P104312CA001
Your Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your C.O.C. #: N/A

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/09/24**
Report #: R8332931
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4R9835**
**Received: 2024/09/09, 09:58**

Sample Matrix: Water
# Samples Received: 4

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Mercury in Water by CVAA | 4 | 2024/09/20 | 2024/09/20 | CAM SOP-00453 | EPA 7470A m |
| Total Metals Analysis by ICPMS | 4 | 2024/09/20 | 2024/09/20 | CAM SOP-00447 | EPA 6020B m |
| Insoluble Part. in Dustfall (D1739mod) | 4 | 2024/09/18 | 2024/09/18 | BRL SOP-00121 | ASTM D1739 m |
| Soluble Part. in Dustfall (D1739mod) | 4 | 2024/09/18 | 2024/09/20 | BRL SOP-00121 | ASTM D1739 m |
| Volume of Sample Received | 4 | 2024/09/18 | 2024/09/18 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

Your P.O. #: P104312CA001
Your Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your C.O.C. #: N/A

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/09/24**
Report #: R8332931
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4R9835**
**Received: 2024/09/09, 09:58**

Encryption Key

Cristina (Maria) Bacchus
Project Manager
24 Sep 2024 12:54:10

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4R9835
Report Date: 2024/09/24

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | ACEY93 | ACEY94 | | ACEY95 | ACEY96 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/09/01 | 2024/09/01 | | 2024/09/01 | 2024/09/01 | | |
| COC Number | | N/A | N/A | | N/A | N/A | | |
| | UNITS | AUGUST BELL TOWERS DUSTFALL | AUGUST TEARDROP DUSTFALL | RDL | AUGUST RICE LAKE DUSTFALL | AUGUST RICE LAKE DUSTFALL DUPLICATE | RDL | QC Batch |
| | | | | | | | | |
| Insoluble Particulate | mg | 4.0 (1) | 12.6 (1) | 2.0 | 3.8 (1) | 3.2 (1) | 2.0 | 9645659 |
| Soluble Particulate | mg | <4.0 (1) | 5.2 (1) | 4.0 | 12.8 (1) | <3.4 (1) | 3.4 | 9645661 |
| **Charge/Prep Analysis** | | | | | | | | |
| Volume of sample | ml | 430 | 330 | 1 | 170 | 170 | 1 | 9645658 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) 50% of sample volume was processed for dustfall; remaining 50% of sample volume was sent to Inorganic Processing for further metals and Hg analysis.
Results and DL were multiplied by 2.



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Bureau Veritas Job #: C4R9835
Report Date: 2024/09/24

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

| Bureau Veritas ID | | ACEY93 | ACEY94 | ACEY95 | ACEY96 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/09/01 | 2024/09/01 | 2024/09/01 | 2024/09/01 | | |
| COC Number | | N/A | N/A | N/A | N/A | | |
| | UNITS | AUGUST BELL TOWERS DUSTFALL | AUGUST TEARDROP DUSTFALL | AUGUST RICE LAKE DUSTFALL | AUGUST RICE LAKE DUSTFALL DUPLICATE | RDL | QC Batch |
| **Metals** | | | | | | | |
| Mercury (Hg) | mg/L | <0.00010 | <0.00010 | <0.00010 | <0.00010 | 0.00010 | 9651574 |
| Total Aluminum (Al) | ug/L | <4.9 | 72 | 56 | 50 | 4.9 | 9651863 |
| Total Antimony (Sb) | ug/L | 2.5 | 4.2 | 4.2 | 5.7 | 0.50 | 9651863 |
| Total Arsenic (As) | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9651863 |
| Total Barium (Ba) | ug/L | <2.0 | <2.0 | 2.5 | 7.7 | 2.0 | 9651863 |
| Total Beryllium (Be) | ug/L | <0.40 | <0.40 | <0.40 | <0.40 | 0.40 | 9651863 |
| Total Bismuth (Bi) | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9651863 |
| Total Boron (B) | ug/L | <10 | <10 | <10 | <10 | 10 | 9651863 |
| Total Cadmium (Cd) | ug/L | <0.090 | <0.090 | <0.090 | <0.090 | 0.090 | 9651863 |
| Total Calcium (Ca) | ug/L | 460 | 420 | 780 | 820 | 200 | 9651863 |
| Total Chromium (Cr) | ug/L | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 9651863 |
| Total Cobalt (Co) | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9651863 |
| Total Copper (Cu) | ug/L | <0.90 | <0.90 | <0.90 | <0.90 | 0.90 | 9651863 |
| Total Iron (Fe) | ug/L | <100 | <100 | <100 | <100 | 100 | 9651863 |
| Total Lead (Pb) | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9651863 |
| Total Lithium (Li) | ug/L | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 9651863 |
| Total Magnesium (Mg) | ug/L | 89 | 120 | 200 | 200 | 50 | 9651863 |
| Total Manganese (Mn) | ug/L | <2.0 | 2.6 | 7.7 | 3.9 | 2.0 | 9651863 |
| Total Molybdenum (Mo) | ug/L | <0.50 | <0.50 | 0.65 | <0.50 | 0.50 | 9651863 |
| Total Nickel (Ni) | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9651863 |
| Total Phosphorus (P) | ug/L | <100 | <100 | 110 | <100 | 100 | 9651863 |
| Total Potassium (K) | ug/L | <200 | <200 | 210 | 220 | 200 | 9651863 |
| Total Selenium (Se) | ug/L | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 9651863 |
| Total Silicon (Si) | ug/L | <50 | 88 | 100 | 93 | 50 | 9651863 |
| Total Silver (Ag) | ug/L | <0.090 | <0.090 | <0.090 | <0.090 | 0.090 | 9651863 |
| Total Sodium (Na) | ug/L | <100 | <100 | <100 | <100 | 100 | 9651863 |
| Total Strontium (Sr) | ug/L | <1.0 | <1.0 | 1.3 | 1.3 | 1.0 | 9651863 |
| Total Tellurium (Te) | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9651863 |
| Total Thallium (Tl) | ug/L | <0.050 | <0.050 | <0.050 | <0.050 | 0.050 | 9651863 |
| Total Tin (Sn) | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9651863 |
| Total Titanium (Ti) | ug/L | <5.0 | 5.3 | <5.0 | <5.0 | 5.0 | 9651863 |
| Total Tungsten (W) | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9651863 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4R9835
Report Date: 2024/09/24

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

| Bureau Veritas ID | | ACEY93 | ACEY94 | ACEY95 | ACEY96 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/09/01 | 2024/09/01 | 2024/09/01 | 2024/09/01 | | |
| COC Number | | N/A | N/A | N/A | N/A | | |
| | UNITS | AUGUST BELL TOWERS DUSTFALL | AUGUST TEARDROP DUSTFALL | AUGUST RICE LAKE DUSTFALL | AUGUST RICE LAKE DUSTFALL DUPLICATE | RDL | QC Batch |
| Total Uranium (U) | ug/L | <0.10 | <0.10 | <0.10 | <0.10 | 0.10 | 9651863 |
| Total Vanadium (V) | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9651863 |
| Total Zinc (Zn) | ug/L | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 9651863 |
| Total Zirconium (Zr) | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9651863 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## GENERAL COMMENTS

Metals Analysis: Samples submitted unpreserved. Analysis performed with client's consent.
Mercury Analysis: Samples submitted unpreserved and in an incorrect bottle type. Analysis performed with client's consent.

**Results relate only to the items tested.**



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## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9645659 | JNA | Spiked Blank | Insoluble Particulate | 2024/09/18 | | 104 | % | 85 - 115 |
| 9645659 | JNA | Method Blank | Insoluble Particulate | 2024/09/18 | <1.0 | | mg | |
| 9645661 | JNA | Spiked Blank | Soluble Particulate | 2024/09/20 | | 97 | % | 85 - 115 |
| 9645661 | JNA | Method Blank | Soluble Particulate | 2024/09/20 | <0.20 | | mg | |
| 9651574 | MPJ | Matrix Spike | Mercury (Hg) | 2024/09/20 | | 100 | % | 75 - 125 |
| 9651574 | MPJ | Spiked Blank | Mercury (Hg) | 2024/09/20 | | 98 | % | 80 - 120 |
| 9651574 | MPJ | Method Blank | Mercury (Hg) | 2024/09/20 | <0.00010 | | mg/L | |
| 9651574 | MPJ | RPD | Mercury (Hg) | 2024/09/20 | NC | | % | 20 |
| | | | Mercury (Hg) | 2024/09/20 | NC | | % | 20 |
| 9651863 | IHP | Matrix Spike | Total Aluminum (Al) | 2024/09/20 | | NC (1) | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2024/09/20 | | NC (1) | % | 80 - 120 |
| | | | Total Arsenic (As) | 2024/09/20 | | NC (1) | % | 80 - 120 |
| | | | Total Barium (Ba) | 2024/09/20 | | NC (1) | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2024/09/20 | | NC (1) | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2024/09/20 | | NC (1) | % | 80 - 120 |
| | | | Total Boron (B) | 2024/09/20 | | NC (1) | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2024/09/20 | | NC (1) | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2024/09/20 | | NC (1) | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2024/09/20 | | NC (1) | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2024/09/20 | | NC (1) | % | 80 - 120 |
| | | | Total Copper (Cu) | 2024/09/20 | | NC (1) | % | 80 - 120 |
| | | | Total Iron (Fe) | 2024/09/20 | | NC (1) | % | 80 - 120 |
| | | | Total Lead (Pb) | 2024/09/20 | | NC (1) | % | 80 - 120 |
| | | | Total Lithium (Li) | 2024/09/20 | | NC (1) | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2024/09/20 | | NC (1) | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2024/09/20 | | NC (1) | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2024/09/20 | | NC (1) | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2024/09/20 | | NC (1) | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2024/09/20 | | NC (1) | % | 80 - 120 |
| | | | Total Potassium (K) | 2024/09/20 | | NC (1) | % | 80 - 120 |
| | | | Total Selenium (Se) | 2024/09/20 | | NC (1) | % | 80 - 120 |
| | | | Total Silicon (Si) | 2024/09/20 | | NC (1) | % | 80 - 120 |
| | | | Total Silver (Ag) | 2024/09/20 | | NC (1) | % | 80 - 120 |
| | | | Total Sodium (Na) | 2024/09/20 | | NC (1) | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2024/09/20 | | NC (1) | % | 80 - 120 |
| | | | Total Tellurium (Te) | 2024/09/20 | | NC (1) | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2024/09/20 | | NC (1) | % | 80 - 120 |
| | | | Total Tin (Sn) | 2024/09/20 | | NC (1) | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2024/09/20 | | NC (1) | % | 80 - 120 |
| | | | Total Tungsten (W) | 2024/09/20 | | NC (1) | % | 80 - 120 |
| | | | Total Uranium (U) | 2024/09/20 | | NC (1) | % | 80 - 120 |
| | | | Total Vanadium (V) | 2024/09/20 | | NC (1) | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2024/09/20 | | NC (1) | % | 80 - 120 |
| | | | Total Zirconium (Zr) | 2024/09/20 | | NC (1) | % | 80 - 120 |
| 9651863 | IHP | Spiked Blank | Total Aluminum (Al) | 2024/09/20 | | 101 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2024/09/20 | | 105 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2024/09/20 | | 103 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2024/09/20 | | 99 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2024/09/20 | | 103 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2024/09/20 | | 99 | % | 80 - 120 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Boron (B) | 2024/09/20 | | 100 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2024/09/20 | | 99 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2024/09/20 | | 104 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2024/09/20 | | 96 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2024/09/20 | | 102 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2024/09/20 | | 98 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2024/09/20 | | 101 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2024/09/20 | | 99 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2024/09/20 | | 115 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2024/09/20 | | 104 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2024/09/20 | | 99 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2024/09/20 | | 102 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2024/09/20 | | 95 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2024/09/20 | | 100 | % | 80 - 120 |
| | | | Total Potassium (K) | 2024/09/20 | | 102 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2024/09/20 | | 106 | % | 80 - 120 |
| | | | Total Silicon (Si) | 2024/09/20 | | 99 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2024/09/20 | | 95 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2024/09/20 | | 102 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2024/09/20 | | 99 | % | 80 - 120 |
| | | | Total Tellurium (Te) | 2024/09/20 | | 103 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2024/09/20 | | 102 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2024/09/20 | | 99 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2024/09/20 | | 101 | % | 80 - 120 |
| | | | Total Tungsten (W) | 2024/09/20 | | 103 | % | 80 - 120 |
| | | | Total Uranium (U) | 2024/09/20 | | 104 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2024/09/20 | | 98 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2024/09/20 | | 104 | % | 80 - 120 |
| | | | Total Zirconium (Zr) | 2024/09/20 | | 101 | % | 80 - 120 |
| 9651863 | IHP | Method Blank | Total Aluminum (Al) | 2024/09/20 | <4.9 | | ug/L | |
| | | | Total Antimony (Sb) | 2024/09/20 | <0.50 | | ug/L | |
| | | | Total Arsenic (As) | 2024/09/20 | <1.0 | | ug/L | |
| | | | Total Barium (Ba) | 2024/09/20 | <2.0 | | ug/L | |
| | | | Total Beryllium (Be) | 2024/09/20 | <0.40 | | ug/L | |
| | | | Total Bismuth (Bi) | 2024/09/20 | <1.0 | | ug/L | |
| | | | Total Boron (B) | 2024/09/20 | <10 | | ug/L | |
| | | | Total Cadmium (Cd) | 2024/09/20 | <0.090 | | ug/L | |
| | | | Total Calcium (Ca) | 2024/09/20 | <200 | | ug/L | |
| | | | Total Chromium (Cr) | 2024/09/20 | <5.0 | | ug/L | |
| | | | Total Cobalt (Co) | 2024/09/20 | <0.50 | | ug/L | |
| | | | Total Copper (Cu) | 2024/09/20 | <0.90 | | ug/L | |
| | | | Total Iron (Fe) | 2024/09/20 | <100 | | ug/L | |
| | | | Total Lead (Pb) | 2024/09/20 | <0.50 | | ug/L | |
| | | | Total Lithium (Li) | 2024/09/20 | <5.0 | | ug/L | |
| | | | Total Magnesium (Mg) | 2024/09/20 | <50 | | ug/L | |
| | | | Total Manganese (Mn) | 2024/09/20 | <2.0 | | ug/L | |
| | | | Total Molybdenum (Mo) | 2024/09/20 | <0.50 | | ug/L | |
| | | | Total Nickel (Ni) | 2024/09/20 | <1.0 | | ug/L | |
| | | | Total Phosphorus (P) | 2024/09/20 | <100 | | ug/L | |
| | | | Total Potassium (K) | 2024/09/20 | <200 | | ug/L | |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Selenium (Se) | 2024/09/20 | <2.0 | | ug/L | |
| | | | Total Silicon (Si) | 2024/09/20 | <50 | | ug/L | |
| | | | Total Silver (Ag) | 2024/09/20 | <0.090 | | ug/L | |
| | | | Total Sodium (Na) | 2024/09/20 | <100 | | ug/L | |
| | | | Total Strontium (Sr) | 2024/09/20 | <1.0 | | ug/L | |
| | | | Total Tellurium (Te) | 2024/09/20 | <1.0 | | ug/L | |
| | | | Total Thallium (Tl) | 2024/09/20 | <0.050 | | ug/L | |
| | | | Total Tin (Sn) | 2024/09/20 | <1.0 | | ug/L | |
| | | | Total Titanium (Ti) | 2024/09/20 | <5.0 | | ug/L | |
| | | | Total Tungsten (W) | 2024/09/20 | <1.0 | | ug/L | |
| | | | Total Uranium (U) | 2024/09/20 | <0.10 | | ug/L | |
| | | | Total Vanadium (V) | 2024/09/20 | <0.50 | | ug/L | |
| | | | Total Zinc (Zn) | 2024/09/20 | <5.0 | | ug/L | |
| | | | Total Zirconium (Zr) | 2024/09/20 | <1.0 | | ug/L | |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) The recovery in the matrix spike was not calculated (NC) due to background interference.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4R9835
Report Date: 2024/09/24

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: P104312CA001
Your Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your C.O.C. #: N/A

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/10/22**
Report #: R8371899
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4V4085**
**Received: 2024/10/07, 09:24**

Sample Matrix: Water
# Samples Received: 4

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Mercury in Water by CVAA | 4 | 2024/10/21 | 2024/10/21 | CAM SOP-00453 | EPA 7470A m |
| Total Metals Analysis by ICPMS | 4 | 2024/10/18 | 2024/10/21 | CAM SOP-00447 | EPA 6020B m |
| Insoluble Part. in Dustfall (D1739mod) | 4 | 2024/10/17 | 2024/10/18 | BRL SOP-00121 | ASTM D1739 m |
| Soluble Part. in Dustfall (D1739mod) | 4 | 2024/10/17 | 2024/10/21 | BRL SOP-00121 | ASTM D1739 m |
| Volume of Sample Received | 4 | 2024/10/17 | 2024/10/17 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

Your P.O. #: P104312CA001
Your Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your C.O.C. #: N/A

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/10/22**
Report #: R8371899
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4V4085**
**Received: 2024/10/07, 09:24**

Encryption Key

Cristina (Maria) Bacchus
Project Manager
22 Oct 2024 15:18:34

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C4V4085
Report Date: 2024/10/22

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | AFBB69 | AFBB70 | AFBB71 | AFBB72 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/10/01 | 2024/10/01 | 2024/10/01 | 2024/10/01 | | |
| COC Number | | N/A | N/A | N/A | N/A | | |
| | UNITS | SEPTEMBER TEARDROP DUSTFALL | SEPTEMBER BELL TOWERS DUSTFALL | SEPTEMBER RICE DUSTFALL | SEPTEMBER RICE DUPLICATE DUSTFALL | RDL | QC Batch |
| Insoluble Particulate | mg | 4.2 (1) | 3.0 (1) | 3.0 (1) | 2.6 (1) | 2.0 | 9704430 |
| Soluble Particulate | mg | 9.6 (1) | 16.8 (1) | 23.2 (1) | 12.4 (1) | 4.0 | 9704460 |
| **Charge/Prep Analysis** | | | | | | | |
| Volume of sample | ml | 290 | 350 | 280 | 250 | 1 | 9704421 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) 50% of sample volume was processed for dustfall; remaining 50% of sample volume was sent to Inorganic Processing for further metals and Hg analysis.
Results and DL were multiplied by 2.


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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4V4085
Report Date: 2024/10/22

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

| Bureau Veritas ID | | AFBB69 | AFBB70 | AFBB71 | AFBB72 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/10/01 | 2024/10/01 | 2024/10/01 | 2024/10/01 | | |
| COC Number | | N/A | N/A | N/A | N/A | | |
| | UNITS | SEPTEMBER TEARDROP DUSTFALL | SEPTEMBER BELL TOWERS DUSTFALL | SEPTEMBER RICE DUSTFALL | SEPTEMBER RICE DUPLICATE DUSTFALL | RDL | QC Batch |
| **Metals** | | | | | | | |
| Mercury (Hg) | mg/L | <0.00010 | <0.00010 | <0.00010 | <0.00010 | 0.00010 | 9713247 |
| Total Aluminum (Al) | ug/L | 97 | 60 | 52 | 76 | 4.9 | 9710172 |
| Total Antimony (Sb) | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9710172 |
| Total Arsenic (As) | ug/L | <1.0 | <1.0 | 1.8 | 1.2 | 1.0 | 9710172 |
| Total Barium (Ba) | ug/L | 130 | 130 | 310 | 200 | 2.0 | 9710172 |
| Total Beryllium (Be) | ug/L | <0.40 | <0.40 | <0.40 | <0.40 | 0.40 | 9710172 |
| Total Bismuth (Bi) | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9710172 |
| Total Boron (B) | ug/L | <10 | <10 | 20 | 14 | 10 | 9710172 |
| Total Cadmium (Cd) | ug/L | <0.090 | <0.090 | <0.090 | <0.090 | 0.090 | 9710172 |
| Total Calcium (Ca) | ug/L | 2300 | 2200 | 4700 | 3700 | 200 | 9710172 |
| Total Chromium (Cr) | ug/L | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 9710172 |
| Total Cobalt (Co) | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9710172 |
| Total Copper (Cu) | ug/L | 0.92 | <0.90 | 1.0 | <0.90 | 0.90 | 9710172 |
| Total Iron (Fe) | ug/L | 140 | <100 | <100 | <100 | 100 | 9710172 |
| Total Lead (Pb) | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9710172 |
| Total Lithium (Li) | ug/L | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 9710172 |
| Total Magnesium (Mg) | ug/L | 370 | 320 | 680 | 510 | 50 | 9710172 |
| Total Manganese (Mn) | ug/L | 7.5 | 4.9 | 4.7 | 7.2 | 2.0 | 9710172 |
| Total Molybdenum (Mo) | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9710172 |
| Total Nickel (Ni) | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9710172 |
| Total Phosphorus (P) | ug/L | <100 | <100 | 140 | <100 | 100 | 9710172 |
| Total Potassium (K) | ug/L | <200 | <200 | 340 | <200 | 200 | 9710172 |
| Total Selenium (Se) | ug/L | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 9710172 |
| Total Silicon (Si) | ug/L | 3000 | 3100 | 8600 | 5300 | 50 | 9710172 |
| Total Silver (Ag) | ug/L | <0.090 | <0.090 | <0.090 | <0.090 | 0.090 | 9710172 |
| Total Sodium (Na) | ug/L | 4800 | 4400 | 9400 | 6900 | 100 | 9710172 |
| Total Strontium (Sr) | ug/L | 9.9 | 9.4 | 24 | 16 | 1.0 | 9710172 |
| Total Tellurium (Te) | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9710172 |
| Total Thallium (Tl) | ug/L | <0.050 | <0.050 | <0.050 | <0.050 | 0.050 | 9710172 |
| Total Tin (Sn) | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9710172 |
| Total Titanium (Ti) | ug/L | 7.0 | <5.0 | <5.0 | 5.9 | 5.0 | 9710172 |
| Total Tungsten (W) | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9710172 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4V4085
Report Date: 2024/10/22

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

| Bureau Veritas ID | | AFBB69 | AFBB70 | AFBB71 | AFBB72 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/10/01 | 2024/10/01 | 2024/10/01 | 2024/10/01 | | |
| COC Number | | N/A | N/A | N/A | N/A | | |
| | UNITS | SEPTEMBER TEARDROP DUSTFALL | SEPTEMBER BELL TOWERS DUSTFALL | SEPTEMBER RICE DUSTFALL | SEPTEMBER RICE DUPLICATE DUSTFALL | RDL | QC Batch |
| Total Uranium (U) | ug/L | <0.10 | <0.10 | <0.10 | <0.10 | 0.10 | 9710172 |
| Total Vanadium (V) | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9710172 |
| Total Zinc (Zn) | ug/L | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 9710172 |
| Total Zirconium (Zr) | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9710172 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

Mercury Analysis: Sample was submitted in unpreserved bottle. Result may be biased low due to improper preservation. Analysis performed with client's consent.

Metals Analysis: Sample was submitted in an incorrect bottle type and no preservation. Result may be biased. Analysis performed with client's consent.

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9704430 | JNA | Spiked Blank | Insoluble Particulate | 2024/10/18 | | 100 | % | 85 - 115 |
| 9704430 | JNA | Method Blank | Insoluble Particulate | 2024/10/18 | <1.0 | | mg | |
| 9704460 | JNA | Spiked Blank | Soluble Particulate | 2024/10/21 | | 101 | % | 85 - 115 |
| 9704460 | JNA | Method Blank | Soluble Particulate | 2024/10/21 | <0.20 | | mg | |
| 9710172 | PBA | Matrix Spike | Total Aluminum (Al) | 2024/10/21 | | 95 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2024/10/21 | | 107 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2024/10/21 | | 97 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2024/10/21 | | 97 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2024/10/21 | | 100 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2024/10/21 | | 95 | % | 80 - 120 |
| | | | Total Boron (B) | 2024/10/21 | | 98 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2024/10/21 | | 97 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2024/10/21 | | 99 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2024/10/21 | | 97 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2024/10/21 | | 98 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2024/10/21 | | 98 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2024/10/21 | | 99 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2024/10/21 | | 95 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2024/10/21 | | 102 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2024/10/21 | | 95 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2024/10/21 | | 96 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2024/10/21 | | 97 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2024/10/21 | | 96 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2024/10/21 | | 92 | % | 80 - 120 |
| | | | Total Potassium (K) | 2024/10/21 | | 98 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2024/10/21 | | 102 | % | 80 - 120 |
| | | | Total Silicon (Si) | 2024/10/21 | | 93 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2024/10/21 | | 96 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2024/10/21 | | 96 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2024/10/21 | | 94 | % | 80 - 120 |
| | | | Total Tellurium (Te) | 2024/10/21 | | 93 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2024/10/21 | | 97 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2024/10/21 | | 99 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2024/10/21 | | 94 | % | 80 - 120 |
| | | | Total Tungsten (W) | 2024/10/21 | | 97 | % | 80 - 120 |
| | | | Total Uranium (U) | 2024/10/21 | | 96 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2024/10/21 | | 97 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2024/10/21 | | 100 | % | 80 - 120 |
| | | | Total Zirconium (Zr) | 2024/10/21 | | 104 | % | 80 - 120 |
| 9710172 | PBA | Spiked Blank | Total Aluminum (Al) | 2024/10/21 | | 95 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2024/10/21 | | 107 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2024/10/21 | | 98 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2024/10/21 | | 95 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2024/10/21 | | 102 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2024/10/21 | | 95 | % | 80 - 120 |
| | | | Total Boron (B) | 2024/10/21 | | 97 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2024/10/21 | | 98 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2024/10/21 | | 98 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2024/10/21 | | 97 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2024/10/21 | | 98 | % | 80 - 120 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Copper (Cu) | 2024/10/21 | | 97 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2024/10/21 | | 99 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2024/10/21 | | 96 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2024/10/21 | | 104 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2024/10/21 | | 97 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2024/10/21 | | 97 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2024/10/21 | | 96 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2024/10/21 | | 97 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2024/10/21 | | 89 | % | 80 - 120 |
| | | | Total Potassium (K) | 2024/10/21 | | 99 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2024/10/21 | | 100 | % | 80 - 120 |
| | | | Total Silicon (Si) | 2024/10/21 | | 93 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2024/10/21 | | 97 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2024/10/21 | | 99 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2024/10/21 | | 97 | % | 80 - 120 |
| | | | Total Tellurium (Te) | 2024/10/21 | | 92 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2024/10/21 | | 98 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2024/10/21 | | 98 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2024/10/21 | | 92 | % | 80 - 120 |
| | | | Total Tungsten (W) | 2024/10/21 | | 96 | % | 80 - 120 |
| | | | Total Uranium (U) | 2024/10/21 | | 97 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2024/10/21 | | 98 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2024/10/21 | | 101 | % | 80 - 120 |
| | | | Total Zirconium (Zr) | 2024/10/21 | | 104 | % | 80 - 120 |
| 9710172 | PBA | Method Blank | Total Aluminum (Al) | 2024/10/21 | <4.9 | | ug/L | |
| | | | Total Antimony (Sb) | 2024/10/21 | <0.50 | | ug/L | |
| | | | Total Arsenic (As) | 2024/10/21 | <1.0 | | ug/L | |
| | | | Total Barium (Ba) | 2024/10/21 | <2.0 | | ug/L | |
| | | | Total Beryllium (Be) | 2024/10/21 | <0.40 | | ug/L | |
| | | | Total Bismuth (Bi) | 2024/10/21 | <1.0 | | ug/L | |
| | | | Total Boron (B) | 2024/10/21 | <10 | | ug/L | |
| | | | Total Cadmium (Cd) | 2024/10/21 | <0.090 | | ug/L | |
| | | | Total Calcium (Ca) | 2024/10/21 | <200 | | ug/L | |
| | | | Total Chromium (Cr) | 2024/10/21 | <5.0 | | ug/L | |
| | | | Total Cobalt (Co) | 2024/10/21 | <0.50 | | ug/L | |
| | | | Total Copper (Cu) | 2024/10/21 | <0.90 | | ug/L | |
| | | | Total Iron (Fe) | 2024/10/21 | <10 | | ug/L | |
| | | | Total Lead (Pb) | 2024/10/21 | <0.50 | | ug/L | |
| | | | Total Lithium (Li) | 2024/10/21 | <5.0 | | ug/L | |
| | | | Total Magnesium (Mg) | 2024/10/21 | <50 | | ug/L | |
| | | | Total Manganese (Mn) | 2024/10/21 | <2.0 | | ug/L | |
| | | | Total Molybdenum (Mo) | 2024/10/21 | <0.50 | | ug/L | |
| | | | Total Nickel (Ni) | 2024/10/21 | <1.0 | | ug/L | |
| | | | Total Phosphorus (P) | 2024/10/21 | <100 | | ug/L | |
| | | | Total Potassium (K) | 2024/10/21 | <200 | | ug/L | |
| | | | Total Selenium (Se) | 2024/10/21 | <2.0 | | ug/L | |
| | | | Total Silicon (Si) | 2024/10/21 | <50 | | ug/L | |
| | | | Total Silver (Ag) | 2024/10/21 | <0.090 | | ug/L | |
| | | | Total Sodium (Na) | 2024/10/21 | <100 | | ug/L | |
| | | | Total Strontium (Sr) | 2024/10/21 | <1.0 | | ug/L | |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Tellurium (Te) | 2024/10/21 | <1.0 | | ug/L | |
| | | | Total Thallium (Tl) | 2024/10/21 | <0.050 | | ug/L | |
| | | | Total Tin (Sn) | 2024/10/21 | <1.0 | | ug/L | |
| | | | Total Titanium (Ti) | 2024/10/21 | <5.0 | | ug/L | |
| | | | Total Tungsten (W) | 2024/10/21 | <1.0 | | ug/L | |
| | | | Total Uranium (U) | 2024/10/21 | <0.10 | | ug/L | |
| | | | Total Vanadium (V) | 2024/10/21 | <0.50 | | ug/L | |
| | | | Total Zinc (Zn) | 2024/10/21 | <5.0 | | ug/L | |
| | | | Total Zirconium (Zr) | 2024/10/21 | <1.0 | | ug/L | |
| 9710172 | PBA | RPD | Total Aluminum (Al) | 2024/10/21 | NC | | % | 20 |
| | | | Total Antimony (Sb) | 2024/10/21 | NC | | % | 20 |
| | | | Total Arsenic (As) | 2024/10/21 | NC | | % | 20 |
| | | | Total Barium (Ba) | 2024/10/21 | NC | | % | 20 |
| | | | Total Beryllium (Be) | 2024/10/21 | NC | | % | 20 |
| | | | Total Bismuth (Bi) | 2024/10/21 | NC | | % | 20 |
| | | | Total Boron (B) | 2024/10/21 | NC | | % | 20 |
| | | | Total Cadmium (Cd) | 2024/10/21 | NC | | % | 20 |
| | | | Total Calcium (Ca) | 2024/10/21 | NC | | % | 20 |
| | | | Total Chromium (Cr) | 2024/10/21 | NC | | % | 20 |
| | | | Total Cobalt (Co) | 2024/10/21 | NC | | % | 20 |
| | | | Total Copper (Cu) | 2024/10/21 | NC | | % | 20 |
| | | | Total Iron (Fe) | 2024/10/21 | 0.14 | | % | 20 |
| | | | Total Lead (Pb) | 2024/10/21 | NC | | % | 20 |
| | | | Total Lithium (Li) | 2024/10/21 | NC | | % | 20 |
| | | | Total Magnesium (Mg) | 2024/10/21 | NC | | % | 20 |
| | | | Total Manganese (Mn) | 2024/10/21 | NC | | % | 20 |
| | | | Total Molybdenum (Mo) | 2024/10/21 | NC | | % | 20 |
| | | | Total Nickel (Ni) | 2024/10/21 | NC | | % | 20 |
| | | | Total Potassium (K) | 2024/10/21 | NC | | % | 20 |
| | | | Total Selenium (Se) | 2024/10/21 | NC | | % | 20 |
| | | | Total Silicon (Si) | 2024/10/21 | NC | | % | 20 |
| | | | Total Silver (Ag) | 2024/10/21 | NC | | % | 20 |
| | | | Total Sodium (Na) | 2024/10/21 | NC | | % | 20 |
| | | | Total Strontium (Sr) | 2024/10/21 | NC | | % | 20 |
| | | | Total Tellurium (Te) | 2024/10/21 | NC | | % | 20 |
| | | | Total Thallium (Tl) | 2024/10/21 | NC | | % | 20 |
| | | | Total Tin (Sn) | 2024/10/21 | NC | | % | 20 |
| | | | Total Titanium (Ti) | 2024/10/21 | NC | | % | 20 |
| | | | Total Tungsten (W) | 2024/10/21 | NC | | % | 20 |
| | | | Total Uranium (U) | 2024/10/21 | 12 | | % | 20 |
| | | | Total Vanadium (V) | 2024/10/21 | NC | | % | 20 |
| | | | Total Zinc (Zn) | 2024/10/21 | NC | | % | 20 |
| | | | Total Zirconium (Zr) | 2024/10/21 | NC | | % | 20 |
| 9713247 | GR1 | Matrix Spike | Mercury (Hg) | 2024/10/21 | | 104 | % | 75 - 125 |
| 9713247 | GR1 | Spiked Blank | Mercury (Hg) | 2024/10/21 | | 100 | % | 80 - 120 |
| 9713247 | GR1 | Method Blank | Mercury (Hg) | 2024/10/21 | <0.00010 | | mg/L | |
| 9713247 | GR1 | RPD | Mercury (Hg) | 2024/10/21 | NC | | % | 20 |
| | | | Mercury (Hg) | 2024/10/21 | NC | | % | 20 |
| | | | Mercury (Hg) | 2024/10/21 | NC | | % | 20 |
| | | | Mercury (Hg) | 2024/10/21 | NC | | % | 20 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Mercury (Hg) | 2024/10/21 | NC | | % | 20 |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4V4085
Report Date: 2024/10/22

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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SGS GALSON

Ryan Fletcher
WSP E&I Canada Limited
160 Traders Blvd. E
Unit 2-3
Mississauga, ON L4Z3K7
Canada

October 10, 2024

Account# 24170

Login# L638855

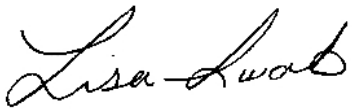
Dear Ryan Fletcher:

Enclosed are the analytical results for the samples received by our laboratory on September 28, 2024. All samples on the chain of custody were received in good condition unless otherwise noted. Any additional observations will be noted on the chain of custody.

Please contact client services at (888) 432-5227 if you would like any additional information regarding this report. Thank you for using SGS Galson.

Sincerely,

SGS Galson



Lisa Swab
Laboratory Director

Enclosure(s)

## Terms and Conditions & General Disclaimers

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## Analytical Disclaimers

- Unless otherwise noted within the report, all quality control results associated with the samples were within established control limits or did not impact reported results.

- Note: The findings recorded within this report were drawn from analysis of the sample(s) provided to the laboratory by the Client (or a third party acting at the Client's direction). The laboratory does not have control over the sampling process, including but not limited to the use of field equipment and collection media, as well as the sampling duration, collection volume or any other collection parameter used by the Client. The findings herein constitute no warranty of the sample's representativeness of any sampled environment, and strictly relate to the samples as they were presented to the laboratory. For recommended sampling collection parameters, please refer to the Sampling and Analysis Guide at www.sgsgalson.com.

- Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceding the final result column may have been rounded and therefore, if carried through the calculations, may not yield an identical final result to the one reported.

- The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).

- Unless otherwise noted within the report, results have not been blank corrected for any field blank or method blank data.

**Accreditations** SGS Galson holds a variety of accreditations and recognitions. Our quality management system conforms with the requirements of ISO/IEC 17025. Where applicable, samples may also be analyzed in accordance with the requirements of ELAP, NELAC, or LELAP under one of the state accrediting bodies listed below. Current Scopes of Accreditation can be viewed at http://www.sgsgalson.com in the accreditations section of the "About" page. To determine if the analyte tested falls under our scope of accreditation, please visit our website or call Client Services at (888) 432-5227.

| National/International | Accreditation/Recognition | Lab ID# | Program/Sector |
|---|---|---|---|
| AIHA-LAP, LLC - IHLAP, ELLAP, EMLAP | ISO/IEC 17025 and USEPA NLLAP | Lab ID 100324 | Industrial Hygiene, Environmental Lead, Environmental Microbiology |

| State | Accreditation/Recognition | Lab ID# | Program/Sector |
|---|---|---|---|
| New York (NYSDOH) | ELAP and NELAC (TNI) | Lab ID: 11626 | Air Analysis, Solid and Hazardous Waste |
| Louisiana (LDEQ) | LELAP | Lab ID: 04083 | Air Analysis, Solid Chemical Materials |

## Legend

| | | | |
|---|---|---|---|
| < - Less than | mg - Milligrams | MDL - Method Detection Limit | ppb - Parts per Billion |
| > - Greater than | ug - Micrograms | NA - Not Applicable | ppm - Parts per Million |
| l - Liters | m3 - Cubic Meters | NS - Not Specified | ppbv - ppb Volume |
| LOQ - Limit of Quantitation | kg - Kilograms | ND - Not Detected | ppmv - ppm Volume |
| ft2 - Square Feet | cm2 - Square Centimeters | in2 - Square Inches | ng - Nanograms |

SGS GALSON

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FAX: (315) 437-0571
www.sgsgalson.com

LABORATORY ANALYSIS REPORT

| | | | |
|---|---|---|---|
| Client | : Wood E&I Solutions Canada Limi | Account No.: | 24170 |
| Site | : GREAT BEAR PROJECT | Login No. : | L638855 |
| Project No. | : CA0031272.9242 | | |
| Date Sampled | : 04-SEP-24 - 20-SEP-24 | Date Analyzed : | 03-OCT-24 |
| Date Received | : 28-SEP-24 | Report ID : | 1451215 |

**Mercury, Vapor and Particulate**

| Sample ID | Lab ID | Air Vol liter | Filter ug | Tube ug | Total ug | Conc mg/m3 |
|---|---|---|---|---|---|---|
| BELL TOWERS SEP 4 | L638855-1 | 1728 | <0.020 | <0.030 | <0.030 | <0.000017 |
| BELL TOWERS SEP 20 | L638855-2 | 1620 | <0.020 | <0.030 | <0.030 | <0.000019 |

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

| | | | |
|---|---|---|---|
| Level of Quantitation: | 0.030 ug | Submitted by: EJB | Approved by: JJL |
| Analytical Method : | mod. NIOSH 6009; CVAA FILTER/TUBE | Date : | 10-OCT-24 |
| Collection Media : | MCE837/226-171A | Supervisor : | JJL |

SGS GALSON

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
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LABORATORY FOOTNOTE REPORT

Client Name : Wood E&I Solutions Canada Limited
Site : GREAT BEAR PROJECT
Project No. : CA0031272.9242

Date Sampled : 04-SEP-24 - 20-SEP-24 Account No.: 24170
Date Received: 28-SEP-24 Login No. : L638855
Date Analyzed: 03-OCT-24

L638855 (Report ID: 1451215):
For applicable NYS sampling events, laboratory accreditation through NYSDOH applies only to Lead results.
Reported results reflect elemental analysis of the requested metals. Certain compounds may not be solubilized during digestion, resulting in data that is biased low.
SOPs: im-hgair(32), MT-SOP-20(23)
Two of two blank spikes recovered above control limits (77.5 to 134%) at 144 and 136% for Mercury for the tube portion.

L638855 (Report ID: 1451215):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated accuracy applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process. The accuracy is based solely on spike recovery data from internal quality control samples. Where N/A appears below, insufficient data is available to provide statistical accuracy and mean recovery values for the associated analyte.

| Parameter | Accuracy | Mean Recovery |
|---|---|---|
| Mercury, Vapor and Particulate | +/-17.4% | 104% |

1Z5X626A4140214070
Date:09/28/24
Shipper:UPS
Initials:YBR
Prep:UNKNOWN

L038855

CANADA


Tel: (315) 432-5227
888-432-LABS (5227)
Fax: (315) 437-0571
www.galsonlabs.com


☐ New Client?

Client Account No.*: 24170

Report To*: ryan.fletcher@wsp.com, ashley.moncrief@kinross.com, hannah.hillier@kinross.com,jacob.mcfee@kinross.com, emily.meek@kinross.com, curtis.bloemberg@kinross.com, aaron.peloquin@kinross.com

Phone No.*: (647) 283-4638
Cell No.:
Email Results to:
Email address: see above

Invoice To*: Accounts Payable
WSP E&I Canada Limited
160 Traders Blvd. E
Mississauga, ON L4Z 3K7

Phone No.: (905) 568-2929
Email: capayablesinquiry@wsp.com, grace@adrover@woodplc.com , apinvoice.canada@wsp.com
P.O. No.: P104124CA001
Credit Card: ☐ Card on File ☐ Call for Credit Card Info.

☐ Samples submitted using the FreePumpLoan™ Program ☐ Samples submitted using the FreeSamplingBadges™ Program

| Need Results By: | (surcharge) |
|---|---|
| ☑ Standard | 0% |
| ☐ 4 Business Days | 35% |
| ☐ 3 Business Days | 50% |
| ☐ 2 Business Days | 75% |
| ☐ Next Day by 6pm | 100% |
| ☐ Next Day by Noon | 150% |
| ☐ Same Day | 200% |

Site Name: Great Bear Project  Project: CA0031272.9242  Sampled by: EM/CB/AP/JM

Comments: Air vols are 1728L and 1620L, resp. KLD 10/9/24

**Medium rainfall for Sep 20 sample. Clear day for Sep 4 sample.**

List description of industry or Process/interferences present in sampling area:

State samples were collected in (e.g., NY): Ontario

Please indicate which OEL this data will be used for:
☐ OSHA PEL ☐ ACGIH TLV ☐ Cal OSHA
☐ MSHA ☑ Other (specify): baseline

| Sample Identification* (Maxmium of 20 Characters) | Date Sampled | Collection Medium | Sample Volume Sample Time Sample Area* | Sample Units*: L, ml,min,in2,cm2,ft2 | Analysis Requested* | Method Reference^ | Hexavalent Chromium Process (e.g., welding plating, painting, etc.)* |
|---|---|---|---|---|---|---|---|
| Bell Towers Sep 4 | 09/04/24 | 37 mm UW MCE, 3pc | 1440 | min | Mercury, Vapor | mod. NIOSH 6009; CVAA TUBE | |
| Bell Towers Sep 20 | 09/20/24 | 37 mm UW MCE, 3pc | 1350 | min | Mercury, Vapor | mod. NIOSH 6009; CVAA TUBE | |
| Bell Towers Sep 4 | 09/04/24 | 226-17-1A | 1440 | min | Mercury, Vapor | mod. NIOSH 6009; CVAA TUBE | |
| Bell Towers Sep 20 | 09/20/24 | 226-17-1A | 1350 | min | Mercury, Vapor | mod. NIOSH 6009; CVAA TUBE | |
| | | | | | | | |
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^Galson Laboratories will subsititute our routine/preferred method if it does not match the method listed on the COC unless this box is checked: ☐ Use method(s) listed on COC

For metals analysis: if requesting an analyte with the option of a lower LOQ, please indicate if the lower LOQ is required (only available for certain analytes - see SAG):

For crystalline silica: form(s) of silica needed must be indicated (Quartz, Cristobalite, and/or Tridymite)*:

| Chain of Custody | Print Name/Signature | Date | Time | | Print Name/Signature | Date | Time |
|---|---|---|---|---|---|---|---|
| Relinquished by: | Jacob McFee | 09/21/24 | 15:30 | Received by: | Niyati N. M. | 9/27/24 | 10am |
| Relinquished by: | | | | Received by: | Yasmine Blevis | 9/28/24 | 0945 |

Samples received after 3pm will be considered as next day's business
* Required fields, failure to complete these fields may result in a delay in your samples being processed.

Page 1 of 1

SGS GALSON

Ryan Fletcher
WSP E&I Canada Limited
160 Traders Blvd. E
Unit 2-3
Mississauga, ON L4Z3K7
Canada

November 18, 2024

Account# 24170

Login# L643195

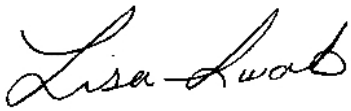
Dear Ryan Fletcher:

Enclosed are the analytical results for the samples received by our laboratory on November 12, 2024. All samples on the chain of custody were received in good condition unless otherwise noted. Any additional observations will be noted on the chain of custody.

Please contact client services at (888) 432-5227 if you would like any additional information regarding this report. Thank you for using SGS Galson.

Sincerely,

SGS Galson



Lisa Swab
Laboratory Director

Enclosure(s)

## Terms and Conditions & General Disclaimers

- This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

- Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

## Analytical Disclaimers

- Unless otherwise noted within the report, all quality control results associated with the samples were within established control limits or did not impact reported results.

- Note: The findings recorded within this report were drawn from analysis of the sample(s) provided to the laboratory by the Client (or a third party acting at the Client's direction). The laboratory does not have control over the sampling process, including but not limited to the use of field equipment and collection media, as well as the sampling duration, collection volume or any other collection parameter used by the Client. The findings herein constitute no warranty of the sample's representativeness of any sampled environment, and strictly relate to the samples as they were presented to the laboratory. For recommended sampling collection parameters, please refer to the Sampling and Analysis Guide at www.sgsgalson.com.

- Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceding the final result column may have been rounded and therefore, if carried through the calculations, may not yield an identical final result to the one reported.

- The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).

- Unless otherwise noted within the report, results have not been blank corrected for any field blank or method blank data.

**Accreditations** SGS Galson holds a variety of accreditations and recognitions. Our quality management system conforms with the requirements of ISO/IEC 17025. Where applicable, samples may also be analyzed in accordance with the requirements of ELAP, NELAC, or LELAP under one of the state accrediting bodies listed below. Current Scopes of Accreditation can be viewed at http://www.sgsgalson.com in the accreditations section of the "About" page. To determine if the analyte tested falls under our scope of accreditation, please visit our website or call Client Services at (888) 432-5227.

| National/International | Accreditation/Recognition | Lab ID# | Program/Sector |
|---|---|---|---|
| AIHA-LAP, LLC - IHLAP, ELLAP, EMLAP | ISO/IEC 17025 and USEPA NLLAP | Lab ID 100324 | Industrial Hygiene, Environmental Lead, Environmental Microbiology |

| State | Accreditation/Recognition | Lab ID# | Program/Sector |
|---|---|---|---|
| New York (NYSDOH) | ELAP and NELAC (TNI) | Lab ID: 11626 | Air Analysis, Solid and Hazardous Waste |
| Louisiana (LDEQ) | LELAP | Lab ID: 04083 | Air Analysis, Solid Chemical Materials |

## Legend

| | | | |
|---|---|---|---|
| < - Less than | mg - Milligrams | MDL - Method Detection Limit | ppb - Parts per Billion |
| > - Greater than | ug - Micrograms | NA - Not Applicable | ppm - Parts per Million |
| l - Liters | m3 - Cubic Meters | NS - Not Specified | ppbv - ppb Volume |
| LOQ - Limit of Quantitation | kg - Kilograms | ND - Not Detected | ppmv - ppm Volume |
| ft2 - Square Feet | cm2 - Square Centimeters | in2 - Square Inches | ng - Nanograms |

SGS GALSON

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.sgsgalson.com

LABORATORY ANALYSIS REPORT

| | | | |
|---|---|---|---|
| Client | : Wood E&I Solutions Canada Limi | Account No.: | 24170 |
| Site | : GREAT BEAR PROJECT | Login No. : | L643195 |
| Project No. | : CA0031272.9242 | | |
| Date Sampled | : 31-OCT-24 - 05-NOV-24 | Date Analyzed : | 18-NOV-24 |
| Date Received | : 12-NOV-24 | Report ID : | 1460543 |

**Mercury, Vapor and Particulate**

| Sample ID | Lab ID | Air Vol liter | Filter ug | Tube ug | Total ug | Conc mg/m3 |
|---|---|---|---|---|---|---|
| BELL TOWERS OCT31/87 | L643195-1 | 288 | <0.020 | <0.030 | <0.030 | <0.00010 |
| BELL TOWERS NOV 5/89 | L643195-2 | 294 | <0.020 | <0.030 | <0.030 | <0.00010 |

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

| | | | |
|---|---|---|---|
| Level of Quantitation: | 0.030 ug | Submitted by: MNB/WTF | Approved by: JJL |
| Analytical Method : | mod. NIOSH 6009; CVAA FILTER/TUBE | Date : | 18-NOV-24 |
| Collection Media : | MCE837/226-171A | Supervisor : | JJL |

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East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.sgsgalson.com

LABORATORY FOOTNOTE REPORT

Client Name : Wood E&I Solutions Canada Limited
Site : GREAT BEAR PROJECT
Project No. : CA0031272.9242

Date Sampled : 31-OCT-24 - 05-NOV-24 Account No.: 24170
Date Received: 12-NOV-24 Login No. : L643195
Date Analyzed: 18-NOV-24

---

L643195 (Report ID: 1460543):
For applicable NYS sampling events, laboratory accreditation through NYSDOH applies only to Lead results.
Reported results reflect elemental analysis of the requested metals. Certain compounds may not be solubilized during digestion, resulting in data that is biased low.
SOPs: im-hgair(32), MT-SOP-20(23)

L643195 (Report ID: 1460543):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated accuracy applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process. The accuracy is based solely on spike recovery data from internal quality control samples. Where N/A appears below, insufficient data is available to provide statistical accuracy and mean recovery values for the associated analyte.

| Parameter | Accuracy | Mean Recovery |
|---|---|---|
| Mercury, Vapor and Particulate | +/-17.4% | 104% |

1Z5X626A1540653770
Date: 11/12/24
Shipper: UPS
Initials: KMS
Prep: UNKNOWN

H042 L043195


East Syracuse, ... 57
Tel: (315) 432-5227
888-432-LABS (5227)
Fax: (315) 437-0571
www.galsonlabs.com


CAN 38

☐ New Client?

Client Account No.*: 24170

Report To*: ryan.fletcher@wsp.com, ashley.moncrief@kinross.com, hannah.hillier@kinross.com, jacob.mcfee@kinross.com, emily.meek@kinross.com, curtis.bloemberg@kinross.com, aaron.peloquin@kinross.com

Phone No.*: (647) 283-4638
Cell No.:
Email Results to:
Email address: see above

Invoice To*: CAPayablesInvoice@wsp.com

Phone No.: (905 568-2929
Email:
P.O. No.: P104124CA001
Credit Card: ☐ Card on File ☐ Call for Credit Card Info.

☐ Samples submitted using the FreePumpLoan™ Program ☐ Samples submitted using the FreeSamplingBadges™ Program

| Need Results By: | (surcharge) |
|---|---|
| ☑ Standard | 0% |
| ☐ 4 Business Days | 35% |
| ☐ 3 Business Days | 50% |
| ☐ 2 Business Days | 75% |
| ☐ Next Day by 6pm | 100% |
| ☐ Next Day by Noon | 150% |
| ☐ Same Day | 200% |

Site Name: Great Bear Project | Project: CA0031272.9242 | Sampled by: EM/CB/AP/JM

Comments:

Flow rate at 0.2 L/min pre and post sample. Nov 5th sample had light rain.

List description of industry or Process/interferences present in sampling area:

24 Hrs Oct 31, 24.5 Hrs Nov 5

State samples were collected in (e.g., NY): Ontario

Please indicate which OEL this data will be used for:
☐ OSHA PEL ☐ ACGIH TLV ☐ Cal OSHA ☐ MSHA ☑ Other (specify): baseline

| Sample Identification* (Maxmium of 20 Characters) | Date Sampled | Collection Medium | Sample Volume Sample Time Sample Area* | Sample Units*: L, ml,min,in2,cm2,ft2 | Analysis Requested* | Method Reference^ | Hexavalent Chromium Process (e.g., welding plating, painting, etc.)* |
|---|---|---|---|---|---|---|---|
| Bell Towers Oct 31 | 10/31/24 | 37 mm UW MCE, 3pc | 288 | L | Mercury, Vapor | mod. NIOSH 6009; CVAA TUBE | |
| Bell Towers Nov 5 | 11/05/24 | 37 mm UW MCE, 3pc | 294 | L | Mercury, Vapor | mod. NIOSH 6009; CVAA TUBE | |
| (1) Bell Towers Oct 31 | 10/31/24 | 226-17-1A | 288 | L | Mercury, Vapor | mod. NIOSH 6009; CVAA TUBE | |
| Bell Towers Nov 5 | 11/05/24 | 226-17-1A | 294 | L | Mercury, Vapor | mod. NIOSH 6009; CVAA TUBE | |
| | | | | | | | |
| (1) ID's not on tubes | rec'd: | | | | | | |
| 27903138 7 | | | | | | | |
| " 389 | Kms 11/12/24 | | | | | | |
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| | | | | | | | |

^Galson Laboratories will subsititute our routine/preferred method if it does not match the method listed on the COC unless this box is checked: ☐ Use method(s) listed on COC

For metals analysis: if requesting an analyte with the option of a lower LOQ, please indicate if the lower LOQ is required (only available for certain analytes - see SAG):

For crystalline silica: form(s) of silica needed must be indicated (Quartz, Cristobalite, and/or Tridymite)*:

| Chain of Custody | Print Name/Signature | Date | Time | | Print Name/Signature | Date | Time |
|---|---|---|---|---|---|---|---|
| Relinquished by: | Jacob McFee | 11/06/24 | 15:30 | Received by: | Niyati N. Patel | 11/11/24 | 9am |
| Relinquished by: | | | | Received by: | Kris Stone Kris Stone | 11/12/24 | 0850 |

Samples received after 3pm will be considered as next day's business

* Required fields, failure to complete these fields may result in a delay in your samples being processed.

Page 1 of 1

SGS GALSON

Ryan Fletcher
WSP E&I Canada Limited
160 Traders Blvd. E
Unit 2-3
Mississauga, ON L4Z3K7
Canada

January 27, 2025

Account# 24170

Login# L648534

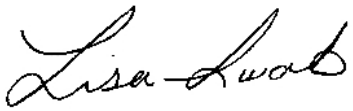
Dear Ryan Fletcher:

Enclosed are the analytical results for the samples received by our laboratory on January 21, 2025. All samples on the chain of custody were received in good condition unless otherwise noted. Any additional observations will be noted on the chain of custody.

Please contact client services at (888) 432-5227 if you would like any additional information regarding this report. Thank you for using SGS Galson.

Sincerely,

SGS Galson



Lisa Swab
Laboratory Director

Enclosure(s)

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- Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

## Analytical Disclaimers

- Unless otherwise noted within the report, all quality control results associated with the samples were within established control limits or did not impact reported results.

- Note: The findings recorded within this report were drawn from analysis of the sample(s) provided to the laboratory by the Client (or a third party acting at the Client's direction). The laboratory does not have control over the sampling process, including but not limited to the use of field equipment and collection media, as well as the sampling duration, collection volume or any other collection parameter used by the Client. The findings herein constitute no warranty of the sample's representativeness of any sampled environment, and strictly relate to the samples as they were presented to the laboratory. For recommended sampling collection parameters, please refer to the Sampling and Analysis Guide at www.sgsgalson.com.

- Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceding the final result column may have been rounded and therefore, if carried through the calculations, may not yield an identical final result to the one reported.

- The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).

- Unless otherwise noted within the report, results have not been blank corrected for any field blank or method blank data.

**Accreditations** SGS Galson holds a variety of accreditations and recognitions. Our quality management system conforms with the requirements of ISO/IEC 17025. Where applicable, samples may also be analyzed in accordance with the requirements of ELAP, NELAC, or LELAP under one of the state accrediting bodies listed below. Current Scopes of Accreditation can be viewed at http://www.sgsgalson.com in the accreditations section of the "About" page. To determine if the analyte tested falls under our scope of accreditation, please visit our website or call Client Services at (888) 432-5227.

| National/International | Accreditation/Recognition | Lab ID# | Program/Sector |
|---|---|---|---|
| AIHA-LAP, LLC - IHLAP, ELLAP, EMLAP | ISO/IEC 17025 and USEPA NLLAP | Lab ID 100324 | Industrial Hygiene, Environmental Lead, Environmental Microbiology |

| State | Accreditation/Recognition | Lab ID# | Program/Sector |
|---|---|---|---|
| New York (NYSDOH) | ELAP and NELAC (TNI) | Lab ID: 11626 | Air Analysis, Solid and Hazardous Waste |
| Louisiana (LDEQ) | LELAP | Lab ID: 04083 | Air Analysis, Solid Chemical Materials |

## Legend

| | | | |
|---|---|---|---|
| < - Less than | mg - Milligrams | MDL - Method Detection Limit | ppb - Parts per Billion |
| > - Greater than | ug - Micrograms | NA - Not Applicable | ppm - Parts per Million |
| l - Liters | m3 - Cubic Meters | NS - Not Specified | ppbv - ppb Volume |
| LOQ - Limit of Quantitation | kg - Kilograms | ND - Not Detected | ppmv - ppm Volume |
| ft2 - Square Feet | cm2 - Square Centimeters | in2 - Square Inches | ng - Nanograms |

SGS GALSON

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(315) 432-5227
FAX: (315) 437-0571
www.sgsgalson.com

LABORATORY ANALYSIS REPORT

| | | | |
|---|---|---|---|
| Client | : Wood E&I Solutions Canada Limi | Account No.: | 24170 |
| Site | : GREAT BEAR PROJECT | Login No. : | L648534 |
| Project No. | : CA0031272.9242 | | |
| Date Sampled | : 08-JAN-25 - 09-JAN-25 | Date Analyzed : | 27-JAN-25 |
| Date Received | : 21-JAN-25 | Report ID : | 1471305 |

**Mercury, Vapor and Particulate**

| Sample ID | Lab ID | Air Vol liter | Filter ug | Tube ug | Total ug | Conc mg/m3 |
|---|---|---|---|---|---|---|
| TOWER JAN 8 763710-1 | L648534-1 | 270 | <0.020 | <0.030 | <0.030 | <0.00011 |
| TOWER JAN 9 763710-2 | L648534-2 | 190.6 | <0.020 | <0.030 | <0.030 | <0.00016 |

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

| | | | |
|---|---|---|---|
| Level of Quantitation: | 0.030 ug | Submitted by: MNB | Approved by: JJL |
| Analytical Method : | mod. NIOSH 6009; CVAA FILTER/TUBE | Date : | 27-JAN-25 |
| Collection Media : | MCE837/226-171A | Supervisor : | JJL |

SGS GALSON

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East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.sgsgalson.com

LABORATORY FOOTNOTE REPORT

Client Name : Wood E&I Solutions Canada Limited
Site : GREAT BEAR PROJECT
Project No. : CA0031272.9242

Date Sampled : 08-JAN-25 - 09-JAN-25 Account No.: 24170
Date Received: 21-JAN-25 Login No. : L648534
Date Analyzed: 27-JAN-25

---

L648534 (Report ID: 1471305):
For applicable NYS sampling events, laboratory accreditation through NYSDOH applies only to Lead results.
Reported results reflect elemental analysis of the requested metals. Certain compounds may not be solubilized during digestion, resulting in data that is biased low.
SOPs: im-hgair(32), MT-SOP-20(23)

L648534 (Report ID: 1471305):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated accuracy applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process. The accuracy is based solely on spike recovery data from internal quality control samples. Where N/A appears below, insufficient data is available to provide statistical accuracy and mean recovery values for the associated analyte.

| Parameter | Accuracy | Mean Recovery |
|---|---|---|
| Mercury, Vapor and Particulate | +/-22.4% | 107% |

1Z5X626A4142115389
Date: 01/21/25
Shipper: UPS
Initials: YBR
Prep: UNKNOWN

L6485347

237 CANADA

ON
RIES

☐ New Client?

Client Account No.*: 24170

Report To*: ryan.fletcher@wsp.com, ashley.moncrief@kinross.com, hannah.hillier@kinross.com, jacob.mcfee@kinross.com, emily.meek@kinross.com, curtis.bloemberg@kinross.com, aaron.peloquin@kinross.com

Phone No.*: (647) 283-4638
Cell No.:
Email Results to:
Email address: see above

Invoice To*: Accounts Payable
WSP E&I Canada Limited
160 Traders Blvd. E
Mississauga, ON L4Z3K7

Phone No.: (905) 568-2929
Email: capayableinquiry@wsp.com, grace.adrover@woodplc.com, apinvoice.canada@wsp.com
P.O. No.: P104124CA001
Credit Card: ☐ Card on File ☐ Call for Credit Card Info.

East Syracuse, NY 13057
Tel: (315) 432-5227
888-432-LABS (5227)
Fax: (315) 437-0571
www.galsonlabs.com

☐ Samples submitted using the FreePumpLoan™ Program ☐ Samples submitted using the FreeSamplingBadges™ Program

| Need Results By: | (surcharge) |
|---|---|
| ☑ Standard | 0% |
| ☐ 4 Business Days | 35% |
| ☐ 3 Business Days | 50% |
| ☐ 2 Business Days | 75% |
| ☐ Next Day by 6pm | 100% |
| ☐ Next Day by Noon | 150% |
| ☐ Same Day | 200% |

Site Name: Great Bear Project | Project: CA0031272.9242 | Sampled by: EM/CB/AP/JM

Comments:

Flow rate at 0.2 L/min pre and post sample (lab calibrated). 2nd sample had a fault at 15:53 due to battery charger not keeping up with the cold.

List description of industry or Process/interferences present in sampling area:

22.5 Hrs Jan 8th, 15 Hrs 53 minutes Jan 9th.

State samples were collected in (e.g., NY): Ontario

Please indicate which OEL this data will be used for:
☐ OSHA PEL ☐ ACGIH TLV ☐ Cal OSHA ☐ MSHA ☑ Other (specify): baseline

| Sample Identification* (Maxmium of 20 Characters) | Date Sampled | Collection Medium | Sample Volume Sample Time Sample Area* | Sample Units*: L, ml,min,in2,cm2,ft2 | Analysis Requested* | Method Reference^ | Hexavalent Chromium Process (e.g., welding plating, painting, etc.)* |
|---|---|---|---|---|---|---|---|
| Bell Towers Jan 8 PON 763710-1 | 01/08/25 | 37 mm UW MCE, 3 pc | 270 | L | Mercury, Vapor | mod. NIOSH 6009; CVAA TUBE | |
| Bell Towers Jan 9 PON 763710-2 | 01/09/25 | 37 mm UW MCE, 3 pc | 190.6 | L | Mercury, Vapor | mod. NIOSH 6009; CVAA TUBE | |
| Bell Towers Jan 8 PON 763710-1 | 01/08/25 | 226-17-1A | 270 | L | Mercury, Vapor | mod. NIOSH 6009; CVAA TUBE | |
| Bell Towers Jan 9 PON 763710-2 | 01/09/25 | 226-17-1A | 190.6 | L | Mercury, Vapor | mod. NIOSH 6009; CVAA TUBE | |
| | | | | | | | |
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^Galson Laboratories will subsititute our routine/preferred method if it does not match the method listed on the COC unless this box is checked: ☐ Use method(s) listed on COC

For metals analysis: if requesting an analyte with the option of a lower LOQ, please indicate if the lower LOQ is required (only available for certain analytes - see SAG):

For crystalline silica: form(s) of silica needed must be indicated (Quartz, Cristobalite, and/or Tridymite)*:

| Chain of Custody | Print Name/Signature | Date | Time | | Print Name/Signature | Date | Time |
|---|---|---|---|---|---|---|---|
| Relinquished by: | Jacob McFee | 01/12/25 | 08:00 | Received by: | Niyati Jasmine Blews | 1/17/25 | 1149m |
| Relinquished by: | | | | Received by: | Jasmine Blews | 1/21/25 | 1200 |

Samples received after 3pm will be considered as next day's business
* Required fields, failure to complete these fields may result in a delay in your samples being processed.

ALS Life Sciences
1435 Norjohn Court, Unit 1, Burlington ON, L7L 0E6
Phone: 905-331-3111, FAX: 905-331-4567

# Certificate of Analysis

| | | | |
|---|---|---|---|
| **ALS Project Contact:** | Claire Kocharakkal | **Client Name:** | WSP E&I Canada Limited |
| **ALS Project ID:** | WOO159 | **Client Address:** | 160 Traders Blvd. E, Units 2&3 |
| **ALS WO#:** | L2743257 | | Mississauga, ON L4Z 3K7 |
| **Date of Report** | 18-Jan-23 | | Canada |
| **Date of Sample Receipt** | 15-Dec-22 | **Client Contact:** | Ryan Fletcher |
| | | **Client Project ID:** | OMGS21045.15000.***3.5120.573000 |

**COMMENTS:** **PAH by CARB method 429 (LR option)- Isotope dilution**

Certified by

Ron McLeod, Ph.D.
Technical Director

Results in this certificate relate only to the samples as submitted to the laboratory.
This report shall not be reproduced, except in full, without the written permission of ALS Canada Ltd.

# ALS Life Sciences

## Sample Analysis Summary Report

| Sample Name | Media Blank | | Method Blank | | BELL TOWERS PAH DECEMBER 1ST | | Laboratory Control Sample | |
|---|---|---|---|---|---|---|---|---|
| ALS Sample ID | WG3776274-1 | | WG3776274-4 | | L2743257-1 | | WG3776274-2 | |
| Sample Size | 1 | | 1 | | 1 | | 1 | |
| Sample units | sample | | sample | | sample | | sample | |
| Moisture Content | n/a | | n/a | | n/a | | n/a | |
| Matrix | QC | | QC | | Puf | | QC | |
| Sampling Date | n/a | | n/a | | 1-Dec-22 | | n/a | |
| Extraction Date | 16-Dec-22 | | 16-Dec-22 | | 16-Dec-22 | | 16-Dec-22 | |
| **Target Analytes** | **ng** | | **ng** | | **ng** | | **%** | |
| Naphthalene | 85.9 | | <4.0 | U | 1240 | | 127.3 | B |
| 2-Methylnaphthalene | 18.3 | | <4.0 | U | 421 | | 96.9 | B |
| 1-Methylnaphthalene | 10.1 | | <4.0 | U | 258 | | 99 | B |
| Acenaphthylene | <4.0 | U | <4.0 | U | 21.2 | | 92.1 | |
| Acenaphthene | 4.44 | | <4.0 | U | 22.4 | B | 105.5 | |
| Fluorene | <4.0 | U | <4.0 | U | 53.2 | | 92.4 | |
| Phenanthrene | 15.9 | | <4.0 | U | 102 | B | 105.4 | B |
| Anthracene | <4.0 | U | <4.0 | U | 6.18 | | 92.3 | |
| Fluoranthene | 4.79 | | <4.0 | U | 23.5 | B | 101.5 | |
| Pyrene | 4.93 | | <4.0 | U | 17.0 | B | 105.8 | |
| Benzo(a)Anthracene | <4.0 | U | <4.0 | U | <4.0 | U | 97.6 | |
| Chrysene | <4.0 | U | <4.0 | U | 9.04 | | 107.3 | |
| Benzo(b)Fluoranthene | <4.0 | U | <4.0 | U | 5.75 | M | 87.9 | |
| Benzo(k)Fluoranthene | <4.0 | U | <4.0 | U | 4.65 | M | 122.3 | |
| Benzo(e)Pyrene | <4.0 | U | <4.0 | U | 4.20 | | 111.9 | |
| Benzo(a)Pyrene | 2.54 | | <2.0 | U | 4.52 | B | 108.2 | |
| Perylene | <4.0 | U | <4.0 | U | <4.0 | U | 90.8 | |
| Indeno(1,2,3-cd)Pyrene | <4.0 | U | <4.0 | U | 8.16 | | 76.5 | |
| Dibenzo(a,h)Anthracene | <4.0 | U | <4.0 | U | <4.0 | U | 100.5 | |
| Benzo(g,h,i)Perylene | <4.0 | U | <4.0 | U | 4.09 | | 96.5 | |
| **Field Sampling Standards** | **% Rec** | | **% Rec** | | **% Rec** | | **% Rec** | |
| 1-Methylnaphthalene-D10 | n/a | | n/a | | 84.5 | | n/a | |
| Fluorene D10 | n/a | | n/a | | 99.3 | | n/a | |
| Terphenyl D14(Surr.) | n/a | | n/a | | 105 | | n/a | |
| **Extraction Standards** | **% Rec** | | **% Rec** | | **% Rec** | | **% Rec** | |
| Naphthalene D8 | 105.3 | | 115.9 | | 94.2 | | 107.6 | |
| 2-Methylnaphthalene-D10 | 93.7 | | 103.8 | | 87.1 | | 100.4 | |
| Acenaphthylene D8 | 82.1 | | 92.4 | | 73 | | 84 | |
| Phenanthrene D10 | 105 | | 114.9 | | 90.3 | | 109.3 | |
| Anthracene-D10 | 91.8 | | 66.8 | | 81.6 | | 97.1 | |

# ALS Life Sciences

## Sample Analysis Summary Report

| Sample Name | Media Blank | Method Blank | BELL TOWERS PAH DECEMBER 1ST | Laboratory Control Sample |
|---|---|---|---|---|
| ALS Sample ID | WG3776274-1 | WG3776274-4 | L2743257-1 | WG3776274-2 |
| Sample Size | 1 | 1 | 1 | 1 |
| Sample units | sample | sample | sample | sample |
| Moisture Content | n/a | n/a | n/a | n/a |
| Matrix | QC | QC | Puf | QC |
| Sampling Date | n/a | n/a | 1-Dec-22 | n/a |
| Extraction Date | 16-Dec-22 | 16-Dec-22 | 16-Dec-22 | 16-Dec-22 |
| **Extraction Standards** | **% Rec** | **% Rec** | **% Rec** | **% Rec** |
| Fluoranthene D10 | 102.3 | 103 | 87.3 | 105.4 |
| Benz(a)Anthracene-D12 | 72.3 | 70.9 | 65.7 | 81.9 |
| Chrysene D12 | 86.3 | 86.1 | 75.7 | 99.4 |
| Benzo(b)Fluoranthene-D12 | 97.2 | 100.4 | 81.1 | 94 |
| Benzo(k)Fluoranthene-D12 | 82.5 | 92.5 | 63.3 | 84.4 |
| Benzo(a)Pyrene D12 | 79.9 | 66 | 71.6 | 84.6 |
| Perylene D12 | 82.5 | 76.9 | 70.6 | 90.4 |
| Indeno(1,2,3,cd)Pyrene-D12 | 85.4 | 91.5 | 68.1 | 89 |
| Dibenz(a,h)Anthracene-D14 | 72.1 | 74.6 | 55.7 | 77.7 |
| Benzo(g,h,i)Perylene D12 | 93.3 | 102.9 | 74.9 | 100.7 |

| | |
|---|---|
| U | Indicates that this compound was not detected above the LOD. |
| M | Indicates that a peak has been manually integrated. |
| B | Indicates that this compound was detected in the method blank at greater than 10% of the sample value. |

# ALS Life Sciences

## Laboratory Method Blank Analysis Report

| | | | |
|---|---|---|---|
| **Sample Name** | **Media Blank** | Sampling Date | n/a |
| ALS Sample ID | WG3776274-1 | Extraction Date | 16-Dec-22 |
| Analysis Method | PAH by CARB 429 | | |
| Analysis Type | blank | | |
| Sample Matrix | QC | | |
| Sample Size | 1 sample | | |
| Percent Moisture | n/a | | |
| Split Ratio | 2 | Workgroup | WG3776274 |

Approved:
*Nick Schrobilgen*
--e-signature--
18-Jan-2023

| **Run Information** | **Run 1** |
|---|---|
| Filename | 23010909.D |
| Run Date | 1/9/2023 8:21 PM |
| Final Volume | 1 mL |
| Dilution Factor | 1 |
| Analysis Units | ng |
| Instrument | MSD-5 |
| Column | HP5MS US2543815H |

| **Target Analytes** | **Ret. Time** | **Concentration ng** | **Flags** |
|---|---|---|---|
| Naphthalene | 2.67 | 85.9 | |
| 2-Methylnaphthalene | 3.23 | 18.3 | |
| 1-Methylnaphthalene | 3.34 | 10.1 | |
| Acenaphthylene | 4.33 | <4.0 | U |
| Acenaphthene | 4.61 | 4.44 | |
| Fluorene | | <4.0 | U |
| Phenanthrene | 7.66 | 15.9 | |
| Anthracene | 7.78 | <4.0 | U |
| Fluoranthene | 11.02 | 4.79 | |
| Pyrene | 11.65 | 4.93 | |
| Benzo(a)Anthracene | 15.59 | <4.0 | U |
| Chrysene | 15.65 | <4.0 | U |
| Benzo(b)Fluoranthene | | <4.0 | U |
| Benzo(k)Fluoranthene | | <4.0 | U |
| Benzo(e)Pyrene | 19.62 | <4.0 | U |
| Benzo(a)Pyrene | 19.75 | 2.54 | |
| Perylene | | <4.0 | U |
| Indeno(1,2,3-cd)Pyrene | | <4.0 | U |
| Dibenzo(a,h)Anthracene | 23.15 | <4.0 | U |
| Benzo(g,h,i)Perylene | 24.10 | <4.0 | U |

| **Extraction Standards** | | | **% Rec** | **Limits** |
|---|---|---|---|---|
| Naphthalene D8 | 200 | 2.66 | 105.3 | 50-150 |
| 2-Methylnaphthalene-D10 | 200 | 3.20 | 93.7 | 50-150 |
| Acenaphthylene D8 | 200 | 4.31 | 82.1 | 50-150 |
| Phenanthrene D10 | 200 | 7.60 | 105.0 | 50-150 |
| Anthracene-D10 | 200 | 7.73 | 91.8 | 50-150 |
| Fluoranthene D10 | 200 | 10.97 | 102.3 | 50-150 |
| Benz(a)Anthracene-D12 | 200 | 15.48 | 72.3 | 50-150 |
| Chrysene D12 | 200 | 15.59 | 86.3 | 50-150 |
| Benzo(b)Fluoranthene-D12 | 200 | 18.80 | 97.2 | 50-150 |
| Benzo(k)Fluoranthene-D12 | 200 | 18.89 | 82.5 | 50-150 |
| Benzo(a)Pyrene D12 | 200 | 19.68 | 79.9 | 50-150 |
| Perylene D12 | 200 | 19.91 | 82.5 | 50-150 |
| Indeno(1,2,3,cd)Pyrene-D12 | 200 | 23.15 | 85.4 | 50-150 |
| Dibenz(a,h)Anthracene-D14 | 200 | 23.31 | 72.1 | 50-150 |
| Benzo(g,h,i)Perylene D12 | 200 | 24.06 | 93.3 | 50-150 |

U Indicates that this compound was not detected above the MDL.

# ALS Life Sciences

## Laboratory Method Blank Analysis Report

| | | | |
|---|---|---|---|
| **Sample Name** | **Method Blank** | Sampling Date | n/a |
| ALS Sample ID | WG3776274-4 | Extraction Date | 16-Dec-22 |
| Analysis Method | PAH by CARB 429 | | |
| Analysis Type | blank | | |
| Sample Matrix | QC | | |
| Sample Size | 1 sample | | |
| Percent Moisture | n/a | | |
| Split Ratio | 2 | Workgroup | WG3776274 |

Approved:
*Nick Schrobilgen*
--e-signature--
18-Jan-2023

| **Run Information** | **Run 1** |
|---|---|
| Filename | 23010910.D |
| Run Date | 1/9/2023 8:59 PM |
| Final Volume | 1 mL |
| Dilution Factor | 1 |
| Analysis Units | ng |
| Instrument | MSD-5 |
| Column | HP5MS US2543815H |

| **Target Analytes** | **Ret. Time** | **Concentration ng** | **Flags** |
|---|---|---|---|
| Naphthalene | 2.67 | <4.0 | U |
| 2-Methylnaphthalene | 3.23 | <4.0 | U |
| 1-Methylnaphthalene | 3.35 | <4.0 | U |
| Acenaphthylene | 4.34 | <4.0 | U |
| Acenaphthene | 4.61 | <4.0 | U |
| Fluorene | 5.47 | <4.0 | U |
| Phenanthrene | 7.66 | <4.0 | U |
| Anthracene | 7.66 | <4.0 | U |
| Fluoranthene | | <4.0 | U |
| Pyrene | | <4.0 | U |
| Benzo(a)Anthracene | 15.59 | <4.0 | U |
| Chrysene | | <4.0 | U |
| Benzo(b)Fluoranthene | 18.82 | <4.0 | U |
| Benzo(k)Fluoranthene | 18.97 | <4.0 | U |
| Benzo(e)Pyrene | 19.69 | <4.0 | U |
| Benzo(a)Pyrene | 19.69 | <2.0 | U |
| Perylene | | <4.0 | U |
| Indeno(1,2,3-cd)Pyrene | 23.17 | <4.0 | U |
| Dibenzo(a,h)Anthracene | 23.17 | <4.0 | U |
| Benzo(g,h,i)Perylene | 24.05 | <4.0 | U |

| **Extraction Standards** | | | **% Rec** | **Limits** |
|---|---|---|---|---|
| Naphthalene D8 | 200 | 2.67 | 115.9 | 50-150 |
| 2-Methylnaphthalene-D10 | 200 | 3.20 | 103.8 | 50-150 |
| Acenaphthylene D8 | 200 | 4.31 | 92.4 | 50-150 |
| Phenanthrene D10 | 200 | 7.61 | 114.9 | 50-150 |
| Anthracene-D10 | 200 | 7.73 | 66.8 | 50-150 |
| Fluoranthene D10 | 200 | 10.97 | 103.0 | 50-150 |
| Benz(a)Anthracene-D12 | 200 | 15.48 | 70.9 | 50-150 |
| Chrysene D12 | 200 | 15.59 | 86.1 | 50-150 |
| Benzo(b)Fluoranthene-D12 | 200 | 18.81 | 100.4 | 50-150 |
| Benzo(k)Fluoranthene-D12 | 200 | 18.89 | 92.5 | 50-150 |
| Benzo(a)Pyrene D12 | 200 | 19.68 | 66.0 | 50-150 |
| Perylene D12 | 200 | 19.91 | 76.9 | 50-150 |
| Indeno(1,2,3,cd)Pyrene-D12 | 200 | 23.15 | 91.5 | 50-150 |
| Dibenz(a,h)Anthracene-D14 | 200 | 23.31 | 74.6 | 50-150 |
| Benzo(g,h,i)Perylene D12 | 200 | 24.06 | 102.9 | 50-150 |

U Indicates that this compound was not detected above the MDL.

# ALS Life Sciences

## Sample Analysis Report

| | | | |
|---|---|---|---|
| **Sample Name** | **BELL TOWERS PAH DECEMBER 1ST** | Sampling Date | 01-Dec-22 00:00 |
| ALS Sample ID | L2743257-1 | Extraction Date | 16-Dec-22 |
| Analysis Method | PAH by CARB 429 | | |
| Analysis Type | sample | | |
| Sample Matrix | Puf | | |
| Sample Size | 1 sample | | |
| Percent Moisture | n/a | | |
| Split Ratio | 2 | Workgroup | WG3776274 |

Approved:
*Nick Schrobilgen*
--e-signature--
18-Jan-2023

| **Run Information** | **Run 1** |
|---|---|
| Filename | 23010911.D |
| Run Date | 1/9/2023 9:38 PM |
| Final Volume | 1 mL |
| Dilution Factor | 1 |
| Analysis Units | ng |
| Instrument | MSD-5 |
| Column | HP5MS US2543815H |

| **Target Analytes** | **Ret. Time** | **Concentration ng** | **Flags** |
|---|---|---|---|
| Naphthalene | 2.67 | 1240 | |
| 2-Methylnaphthalene | 3.23 | 421 | |
| 1-Methylnaphthalene | 3.35 | 258 | |
| Acenaphthylene | 4.33 | 21.2 | |
| Acenaphthene | 4.61 | 22.4 | B |
| Fluorene | 5.46 | 53.2 | |
| Phenanthrene | 7.66 | 102 | B |
| Anthracene | 7.78 | 6.18 | |
| Fluoranthene | 11.02 | 23.5 | B |
| Pyrene | 11.66 | 17.0 | B |
| Benzo(a)Anthracene | 15.54 | <4.0 | U |
| Chrysene | 15.66 | 9.04 | |
| Benzo(b)Fluoranthene | 18.87 | 5.75 | M |
| Benzo(k)Fluoranthene | 18.91 | 4.65 | M |
| Benzo(e)Pyrene | 19.61 | 4.20 | |
| Benzo(a)Pyrene | 19.77 | 4.52 | B |
| Perylene | | <4.0 | U |
| Indeno(1,2,3-cd)Pyrene | 23.24 | 8.16 | |
| Dibenzo(a,h)Anthracene | | <4.0 | U |
| Benzo(g,h,i)Perylene | 24.15 | 4.09 | |

| **Field Sampling Standards** | **ng spiked** | | **% Rec** |
|---|---|---|---|
| 1-Methylnaphthalene-D10 | 200 | 3.31 | 84.5 |
| Fluorene D10 | 200 | 5.46 | 99.3 |
| Terphenyl D14(Surr.) | 200 | 12.47 | 105 |

| **Extraction Standards** | | | **% Rec** | **Limits** |
|---|---|---|---|---|
| Naphthalene D8 | 200 | 2.67 | 94.2 | 50-150 |
| 2-Methylnaphthalene-D10 | 200 | 3.20 | 87.1 | 50-150 |
| Acenaphthylene D8 | 200 | 4.31 | 73.0 | 50-150 |
| Phenanthrene D10 | 200 | 7.60 | 90.3 | 50-150 |
| Anthracene-D10 | 200 | 7.73 | 81.6 | 50-150 |
| Fluoranthene D10 | 200 | 10.97 | 87.3 | 50-150 |
| Benz(a)Anthracene-D12 | 200 | 15.48 | 65.7 | 50-150 |
| Chrysene D12 | 200 | 15.59 | 75.7 | 50-150 |
| Benzo(b)Fluoranthene-D12 | 200 | 18.81 | 81.1 | 50-150 |
| Benzo(k)Fluoranthene-D12 | 200 | 18.89 | 63.3 | 50-150 |
| Benzo(a)Pyrene D12 | 200 | 19.68 | 71.6 | 50-150 |
| Perylene D12 | 200 | 19.91 | 70.6 | 50-150 |
| Indeno(1,2,3,cd)Pyrene-D12 | 200 | 23.15 | 68.1 | 50-150 |
| Dibenz(a,h)Anthracene-D14 | 200 | 23.31 | 55.7 | 50-150 |
| Benzo(g,h,i)Perylene D12 | 200 | 24.05 | 74.9 | 50-150 |

| | |
|---|---|
| M | Indicates that a peak has been manually integrated. |
| U | Indicates that this compound was not detected above the MDL. |
| B | Indicates that this compound was detected in the method blank at greater than 10% of the sample value. |

# ALS Life Sciences

## Laboratory Control Sample Analysis Report

| | | | |
|---|---|---|---|
| **Sample Name** | **Laboratory Control Sample** | Sampling Date | n/a |
| ALS Sample ID | WG3776274-2 | Extraction Date | 16-Dec-22 |
| Analysis Method | PAH by CARB 429 | | |
| Analysis Type | LCS | | |
| Sample Matrix | QC | | |
| Sample Size | 1 sample | | |
| Percent Moisture | n/a | | |
| Split Ratio | 2 | Workgroup | WG3776274 |

Approved:
*Nick Schrobilgen*
--e-signature--
18-Jan-2023

| **Run Information** | **Run 1** |
|---|---|
| Filename | 23010907.D |
| Run Date | 1/9/2023 7:03 PM |
| Final Volume | 1 mL |
| Dilution Factor | 1 |
| Analysis Units | % |
| Instrument | MSD-5 |
| Column | HP5MS US2543815H |

| **Target Analytes** | **ug spiked** | **Ret. Time** | **%** | **Flags** | **Limits** |
|---|---|---|---|---|---|
| Naphthalene | 200 | 2.67 | 127.3 | B | 50-150 |
| 2-Methylnaphthalene | 200 | 3.23 | 96.9 | B | 50-150 |
| 1-Methylnaphthalene | 200 | 3.34 | 99 | B | 50-150 |
| Acenaphthylene | 200 | 4.33 | 92.1 | | 50-150 |
| Acenaphthene | 200 | 4.61 | 105.5 | | 50-150 |
| Fluorene | 200 | | 92.4 | | 50-150 |
| Phenanthrene | 200 | 7.66 | 105.4 | B | 50-150 |
| Anthracene | 200 | 7.78 | 92.3 | | 50-150 |
| Fluoranthene | 200 | 11.02 | 101.5 | | 50-150 |
| Pyrene | 200 | 11.66 | 105.8 | | 50-150 |
| Benzo(a)Anthracene | 200 | 15.54 | 97.6 | | 50-150 |
| Chrysene | 200 | 15.67 | 107.3 | | 50-150 |
| Benzo(b)Fluoranthene | 200 | 18.87 | 87.9 | | 50-150 |
| Benzo(k)Fluoranthene | 200 | 18.94 | 122.3 | | 50-150 |
| Benzo(e)Pyrene | 200 | 19.61 | 111.9 | | 50-150 |
| Benzo(a)Pyrene | 200 | 19.74 | 108.2 | | 50-150 |
| Perylene | 200 | 19.98 | 90.8 | | 50-150 |
| Indeno(1,2,3-cd)Pyrene | 200 | 23.42 | 76.5 | | 50-150 |
| Dibenzo(a,h)Anthracene | 200 | 23.42 | 100.5 | | 50-150 |
| Benzo(g,h,i)Perylene | 200 | 24.15 | 96.5 | | 50-150 |

| **Extraction Standards** | | | **% Rec** | **Limits** |
|---|---|---|---|---|
| Naphthalene D8 | 200 | 2.67 | 107.6 | 30-150 |
| 2-Methylnaphthalene-D10 | 200 | 3.20 | 100.4 | 30-150 |
| Acenaphthylene D8 | 200 | 4.31 | 84.0 | 30-150 |
| Phenanthrene D10 | 200 | 7.60 | 109.3 | 50-150 |
| Anthracene-D10 | 200 | 7.73 | 97.1 | 50-150 |
| Fluoranthene D10 | 200 | 10.97 | 105.4 | 50-150 |
| Benz(a)Anthracene-D12 | 200 | 15.48 | 81.9 | 50-150 |
| Chrysene D12 | 200 | 15.59 | 99.4 | 50-150 |
| Benzo(b)Fluoranthene-D12 | 200 | 18.80 | 94.0 | 50-150 |
| Benzo(k)Fluoranthene-D12 | 200 | 18.89 | 84.4 | 50-150 |
| Benzo(a)Pyrene D12 | 200 | 19.68 | 84.6 | 30-150 |
| Perylene D12 | 200 | 19.91 | 90.4 | 50-150 |
| Indeno(1,2,3,cd)Pyrene-D12 | 200 | 23.15 | 89.0 | 50-150 |
| Dibenz(a,h)Anthracene-D14 | 200 | 23.31 | 77.7 | 50-150 |
| Benzo(g,h,i)Perylene D12 | 200 | 24.05 | 100.7 | 50-150 |

B Indicates that this compound was detected in the method blank at greater than 10% of the sample value.

Your P.O. #: C026300307
Your Project #: 2022/10/01 - 2022/11/01
Site Location: KINROSS RED LAKE PASSIVE PROJECT

**Attention: Ryan Fletcher**

WSP E&I Canada Limited
160 TRADERS BLVD. EAST
Units 2 & 3
MISSISSAUGA, ON
CANADA L4Z 3K7

**Report Date: 2022/12/01**
Report #: R3271622
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C292170**
**Received: 2022/11/22, 12:00**

Sample Matrix: Air
# Samples Received: 2

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| NO2 Passive Analysis | 2 | 2022/11/24 | 2022/11/30 | PTC SOP-00148 | Passive NO2 in ATM |
| SO2 Passive Analysis | 2 | 2022/11/25 | 2022/11/30 | PTC SOP-00149 | Passive SO2 in ATM |

This report shall not be reproduced except in full, without the written approval of the laboratory.
Results relate only to the items tested.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Belma Elefante
Customer Service Associate
01 Dec 2022 09:32:34

Please direct all questions regarding this Certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

==========

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C292170
Report Date: 2022/12/01

WSP E&I Canada Limited
Client Project #: 2022/10/01 - 2022/11/01
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF CHEMICAL ANALYSES OF AIR

| Bureau Veritas ID | | BHM904 | BHM905 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2022/10/01 00:00 | 2022/10/01 00:00 | | |
| | UNITS | TEARDROP OCTOBER | TOTE OCTOBER | RDL | QC Batch |
| **Passive Monitoring** | | | | | |
| Calculated NO2 | ppb | 0.1 | <0.1 | 0.1 | A808265 |
| Calculated SO2 | ppb | <0.1 | 0.2 | 0.1 | A809421 |
| RDL = Reportable Detection Limit | | | | | |



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C292170
Report Date: 2022/12/01

WSP E&I Canada Limited
Client Project #: 2022/10/01 - 2022/11/01
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C292170
Report Date: 2022/12/01

WSP E&I Canada Limited
Client Project #: 2022/10/01 - 2022/11/01
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| A808265 | SS6 | Spiked Blank | Calculated NO2 | | | 98 | % | 90 - 110 |
| A808265 | SS6 | Method Blank | Calculated NO2 | | <0.1 | | ppb | |
| A809421 | SS6 | Spiked Blank | Calculated SO2 | | | 99 | % | 90 - 110 |
| A809421 | SS6 | Method Blank | Calculated SO2 | | <0.1 | | ppb | |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C292170
Report Date: 2022/12/01

WSP E&I Canada Limited
Client Project #: 2022/10/01 - 2022/11/01
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Yang Liu

Yang Liu, Analyst II

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Toll Free: 1-800-668-0639
Phone: 1-780-378-8500
Fax:

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 19 Young Street
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening | PM10 | Silica | VOC | Dustfall | $NO_2$ | $SO_2$ | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VOC Teardrop November 1 - 14 | | | 14-Nov | | | | | X | | | | | | | | | |
| VOC Blank 02 | | | 14-Nov | | | | | X | | | | | | | | | |
| VOC Teardrop October 1 - 14 | | | 14-Oct | | | | | X | | | | | | | | | |
| VOC Blank 01 | | | 14-Oct | | | | | X | | | | | | | | | |
| October Teardrop SO2 | | | 01-Nov | | | | | | | | X | | | | | | |
| October Tote SO2 | | | 01-Nov | | | | | | | | X | | | | | | |
| October SO2 Blank | | | 01-Nov | | | | | | | | X | | | | | | |
| October Teardrop NO2 | | | 01-Nov | | | | | | | X | | | | | | | |
| October Tote NO2 | | | 01-Nov | | | | | | | X | | | | | | | |
| October NO2 Blank | | | 01-Nov | | | | | | | X | | | | | | | |
| | | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com***

Client Signature:
Affiliation:
Date/Time:

Received by:
Affiliation:
Date/Time:

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Your P.O. #: C026300307
Your Project #: 2022/11/01 - 2022/12/01
Site Location: KINROSS RED LAKE PASSIVE PROJECT

**Attention: Ryan Fletcher**

WSP E&I Canada Limited
160 TRADERS BLVD. EAST
Units 2 & 3
MISSISSAUGA, ON
CANADA L4Z 3K7

**Report Date: 2023/01/05**
Report #: R3285055
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C2A0788**
**Received: 2022/12/23, 07:30**

Sample Matrix: Air
# Samples Received: 4

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| NO2 Passive Analysis | 3 | 2022/12/27 | 2023/01/04 | PTC SOP-00148 | Passive NO2 in ATM |
| SO2 Passive Analysis | 3 | 2023/01/03 | 2023/01/04 | PTC SOP-00149 | Passive SO2 in ATM |

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Results relate only to the items tested.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Belma Elefante
Customer Service Associate
05 Jan 2023 10:03:38

Please direct all questions regarding this Certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

==========

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C2A0788
Report Date: 2023/01/05

WSP E&I Canada Limited
Client Project #: 2022/11/01 - 2022/12/01
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF CHEMICAL ANALYSES OF AIR

| Bureau Veritas ID | | BJP884 | BJP885 | | | BJP895 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2022/11/01 00:00 | 2022/11/01 00:00 | | | 2022/11/01 00:00 | | |
| | UNITS | TEARDROP NOVEMBER | TOTE NOVEMBER | RDL | QC Batch | TEARDROP NOVEMBER DUP | RDL | QC Batch |
| **Passive Monitoring** | | | | | | | | |
| Calculated NO2 | ppb | 0.5 | 0.2 | 0.1 | A839448 | 0.7 | 0.1 | A839448 |
| Calculated SO2 | ppb | 0.2 | <0.1 | 0.1 | A844547 | | | |
| RDL = Reportable Detection Limit | | | | | | | | |

| Bureau Veritas ID | | BJP896 | | |
|---|---|---|---|---|
| Sampling Date | | 2022/11/01 00:00 | | |
| | UNITS | TOTE NOVEMBER DUP | RDL | QC Batch |
| **Passive Monitoring** | | | | |
| Calculated SO2 | ppb | <0.1 | 0.1 | A844547 |
| RDL = Reportable Detection Limit | | | | |



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C2A0788
Report Date: 2023/01/05

WSP E&I Canada Limited
Client Project #: 2022/11/01 - 2022/12/01
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| A839448 | OZ | Spiked Blank | Calculated NO2 | | | 101 | % | 90 - 110 |
| A839448 | OZ | Method Blank | Calculated NO2 | | <0.1 | | ppb | |
| A844547 | OZ | Spiked Blank | Calculated SO2 | | | 99 | % | 90 - 110 |
| A844547 | OZ | Method Blank | Calculated SO2 | | <0.1 | | ppb | |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C2A0788
Report Date: 2023/01/05

WSP E&I Canada Limited
Client Project #: 2022/11/01 - 2022/12/01
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Yang Liu

Yang Liu, Analyst II

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.



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Toll Free: 1-800-668-0639
Phone: 1-780-378-8500
Fax:

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 19 Young Street
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening | PM10 | Silica | VOC | Dustfall | $NO_2$ | $SO_2$ | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VOC Teardrop December 1-14 | | | 15-Dec | | | | | X | | | | | | | | | |
| VOC Blank | | | 15-Dec | | | | | X | | | | | | | | | |
| Tote November SO2 Dupe | | | 1-Dec | | | | | | | | X | | | | | | |
| Tote November SO2 | | | 1-Dec | | | | | | | | X | | | | | | |
| November SO2 Blank | | | 1-Dec | | | | | | | | X | | | | | | |
| Tote November NO2 | | | 1-Dec | | | | | | | | X | | | | | | |
| Teardrop November SO2 | | | 1-Dec | | | | | | | X | | | | | | | |
| Teardrop November NO2 | | | 1-Dec | | | | | | | X | | | | | | | |
| Teardrop November NO2 Dupe | | | 1-Dec | | | | | | | X | | | | | | | |
| November NO2 Blank | | | 1-Dec | | | | | | | X | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

*Please note if these samples are "Industrial Hygiene" samples*
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com***

Client Signature:
Affiliation:
Date/Time:

Received by:
Affiliation:
Date/Time:

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AB 22-12-23
4 SO2
4 NO2
C07130

Your P.O. #: C026300307
Your Project #: 2022/07/01 - 2022/08/01
Site Location: KINROSS RED LAKE PASSIVE PROJECT

**Attention: Ryan Fletcher**

Wood Environment & Infrastructure Solutions Canada Limited
160 TRADERS BLVD. EAST
Units 2 & 3
MISSISSAUGA, ON
CANADA L4Z 3K7

**Report Date: 2022/08/31**
Report #: R3224318
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C262708**
**Received: 2022/08/22, 07:30**

Sample Matrix: Air
# Samples Received: 2

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| NO2 Passive Analysis | 1 | 2022/08/23 | 2022/08/30 | PTC SOP-00148 | Passive NO2 in ATM |
| SO2 Passive Analysis | 2 | 2022/08/26 | 2022/08/30 | PTC SOP-00149 | Passive SO2 in ATM |

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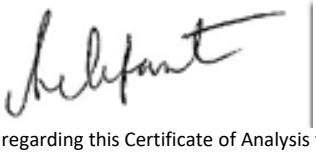
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key



Belma Elefante
Customer Service Associate
31 Aug 2022 08:26:55

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

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Bureau Veritas Job #: C262708
Report Date: 2022/08/31

Wood Environment & Infrastructure Solutions Canada Limited
Client Project #: 2022/07/01 - 2022/08/01
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: N/A

## RESULTS OF CHEMICAL ANALYSES OF AIR

| Bureau Veritas ID | | BAB931 | | | BAB932 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2022/07/01 00:00 | | | 2022/07/01 00:00 | | |
| | UNITS | STATION 3 | RDL | QC Batch | STATION 3 DUP | RDL | QC Batch |
| **Passive Monitoring** | | | | | | | |
| Calculated NO2 | ppb | <0.1 | 0.1 | A689985 | | | |
| Calculated SO2 | ppb | <0.1 | 0.1 | A695232 | <0.1 | 0.1 | A695232 |
| RDL = Reportable Detection Limit | | | | | | | |



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## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C262708
Report Date: 2022/08/31

Wood Environment & Infrastructure Solutions Canada Limited
Client Project #: 2022/07/01 - 2022/08/01
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: N/A

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| A689985 | XSZ | Spiked Blank | Calculated NO2 | 2022/08/23 | | 99 | % | 90 - 110 |
| A689985 | XSZ | Method Blank | Calculated NO2 | 2022/08/23 | <0.1 | | ppb | |
| A695232 | XSZ | Spiked Blank | Calculated SO2 | | | 103 | % | 90 - 110 |
| A695232 | XSZ | Method Blank | Calculated SO2 | | <0.1 | | ppb | |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C262708
Report Date: 2022/08/31

Wood Environment & Infrastructure Solutions Canada Limited
Client Project #: 2022/07/01 - 2022/08/01
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: N/A

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Carmen Toker, CT, Manager Air Laboratory Services

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BUREAU VERITAS

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Edmonton, AB T6B 3M9
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Toll Free: 1-800-668-0639
Phone: (780) 378-8500
Fax:

# CHAIN OF CUSTODY FORM - AIR

CAM FCD-01302 /3

Page ____ of ____

**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM + CR

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening | PM10 | Silica | VOC | Dustfall | $NO_2$ | $SO_2$ | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | |
| $NO_2$ Blank | | | Jul 1 - Aug 1 | | | | | | | X | | | | | | | | |
| $NO_2$ - Station 3 July | | | Jul 1 - Aug 1 | | | | | | | X | | | | | | | | |
| $SO_2$ Blank | | | Jul 1 - Aug 1 | | | | | | | | X | | | | | | | |
| $SO_2$ - Station 3 July | | | Jul 1 - Aug 1 | | | | | | | | X | | | | | | | |
| $SO_2$ July Duplicate | | | Jul 1 - Aug 1 | | | | | | | | X | | | | | | | |
| VOC Station 3 July | | | Jul 1 - July 14 | | | | | X | | | | | | | | | | |
| VOC Blank | | | | | | | | X | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com***

Client Signature: Jacob McFee
Affiliation: Kinross
Date/Time: Aug 2/2022 14:00

Received by:
Affiliation:
Date/Time:

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22-08-22 JB 2 Hebes @ 5°C
3 $SO_2$ 2 $NO_2$

Your P.O. #: C026300307
Your Project #: 2022/08/02 - 2022/09/01
Site Location: KINROSS RED LAKE PASSIVE PROJECT

**Attention: AIR GROUP**

WSP E&I Canada Limited
160 TRADERS BLVD. EAST
Units 2 & 3
MISSISSAUGA, ON
CANADA L4Z 3K7

**Report Date: 2022/10/13**
Report #: R3247131
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C276753**
**Received: 2022/10/03, 10:00**

Sample Matrix: Air
# Samples Received: 2

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| NO2 Passive Analysis | 2 | 2022/10/04 | 2022/10/11 | PTC SOP-00148 | Passive NO2 in ATM |
| SO2 Passive Analysis | 1 | 2022/10/04 | 2022/10/11 | PTC SOP-00149 | Passive SO2 in ATM |

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* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Belma Elefante
Customer Service Associate
13 Oct 2022 11:32:33

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

==========

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C276753
Report Date: 2022/10/13

WSP E&I Canada Limited
Client Project #: 2022/08/02 - 2022/09/01
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF CHEMICAL ANALYSES OF AIR

| Bureau Veritas ID | | BDK594 | | | BDK595 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2022/08/02 00:00 | | | 2022/08/02 00:00 | | |
| | UNITS | TEARDROP AUGUST | RDL | QC Batch | TEARDROP AUGUST DUP | RDL | QC Batch |
| **Passive Monitoring** | | | | | | | |
| Calculated NO2 | ppb | <0.1 | 0.1 | A741613 | 0.1 | 0.1 | A741613 |
| Calculated SO2 | ppb | <0.1 | 0.1 | A742035 | | | |
| RDL = Reportable Detection Limit | | | | | | | |



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C276753
Report Date: 2022/10/13

WSP E&I Canada Limited
Client Project #: 2022/08/02 - 2022/09/01
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C276753
Report Date: 2022/10/13

WSP E&I Canada Limited
Client Project #: 2022/08/02 - 2022/09/01
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| A741613 | OZ | Spiked Blank | Calculated NO2 | | | 100 | % | 90 - 110 |
| A741613 | OZ | Method Blank | Calculated NO2 | | <0.1 | | ppb | |
| A742035 | OZ | Spiked Blank | Calculated SO2 | | | 102 | % | 90 - 110 |
| A742035 | OZ | Method Blank | Calculated SO2 | | <0.1 | | ppb | |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C276753
Report Date: 2022/10/13

WSP E&I Canada Limited
Client Project #: 2022/08/02 - 2022/09/01
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Yang Liu, Analyst II

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

CAM FCD-01302 /3

BUREAU VERITAS

6744 50 Street NW
Edmonton, AB, T6B 3M9
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: 1-780-378-8500
Fax:

# CHAIN OF CUSTODY FORM - AIR

Page ____ of ____

**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:

**SECTION**

Sampled by: JM/CR/AM

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening | PM10 | Silica | VOC | Dustfall | $NO_2$ | $SO_2$ | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $NO_2$ Blank | | | Aug 2 - Sep 1 | | | | | | | X | | | | | | | |
| $NO_2$ - Teardrop August | | | Aug 2 - Sep 1 | | | | | | | X | | | | | | | |
| $NO_2$ - Teardrop August Duplicate | | | Aug 2 - Sep 1 | | | | | | | X | | | | | | | |
| $SO_2$ - Teardrop August | | | Aug 2 - Sep 1 | | | | | | | | X | | | | | | |
| $SO_2$ Blank | | | Aug 2 - Sep 1 | | | | | | | | X | | | | | | |
| VOC Teardrop August | | | Aug 1 - Aug 15 | | | | | X | | | | | | | | | |
| VOC Blank | | | Aug 1 - Aug 15 | | | | | X | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
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**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com***

Client Signature:
Affiliation:
Date/Time:

Received by:
Affiliation:
Date/Time:

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$ 22-10-03
2 tubes @ 15°C
2 SO2 2 NO2 (IAQ)

Your P.O. #: C026300307
Your Project #: 2022/09/01 - 2022/10/01
Site Location: KINROSS RED LAKE PASSIVE PROJECT

**Attention: Ryan Fletcher**

WSP E&I Canada Limited
160 TRADERS BLVD. EAST
Units 2 & 3
MISSISSAUGA, ON
CANADA L4Z 3K7

**Report Date: 2022/10/24**
Report #: R3252457
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C279909**
**Received: 2022/10/11, 08:30**

Sample Matrix: Air
# Samples Received: 2

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| NO2 Passive Analysis | 2 | 2022/10/14 | 2022/10/20 | PTC SOP-00148 | Passive NO2 in ATM |
| SO2 Passive Analysis | 1 | 2022/10/14 | 2022/10/20 | PTC SOP-00149 | Passive SO2 in ATM |

This report shall not be reproduced except in full, without the written approval of the laboratory.
Results relate only to the items tested.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Belma Elefante
Customer Service Associate
24 Oct 2022 09:25:03

Please direct all questions regarding this Certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

==========

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C279909
Report Date: 2022/10/24

WSP E&I Canada Limited
Client Project #: 2022/09/01 - 2022/10/01
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF CHEMICAL ANALYSES OF AIR

| Bureau Veritas ID | | BEH347 | | | BEH348 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2022/09/01 00:00 | | | 2022/09/01 00:00 | | |
| | UNITS | TEARDROP SEPTEMBER | RDL | QC Batch | TEARDROP AUGUST DUP | RDL | QC Batch |
| **Passive Monitoring** | | | | | | | |
| Calculated NO2 | ppb | <0.1 | 0.1 | A754054 | <0.1 | 0.1 | A754054 |
| Calculated SO2 | ppb | <0.1 | 0.1 | A756395 | | | |
| RDL = Reportable Detection Limit | | | | | | | |



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C279909
Report Date: 2022/10/24

WSP E&I Canada Limited
Client Project #: 2022/09/01 - 2022/10/01
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| A754054 | XSZ | Spiked Blank | Calculated NO2 | | | 100 | % | 90 - 110 |
| A754054 | XSZ | Method Blank | Calculated NO2 | | <0.1 | | ppb | |
| A756395 | OZ | Spiked Blank | Calculated SO2 | | | 103 | % | 90 - 110 |
| A756395 | OZ | Method Blank | Calculated SO2 | | <0.1 | | ppb | |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



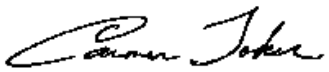
Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C279909
Report Date: 2022/10/24

WSP E&I Canada Limited
Client Project #: 2022/09/01 - 2022/10/01
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Carmen Toker, CT, Manager Air Laboratory Services

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bay 10, 6744 - 50 St.
Edmonton AB, CA, T6B 3M9
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: (780) 378-8500
Fax: (780) 378-8699

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening | PM10 | Silica | VOC | Dustfall | $NO_2$ | $SO_2$ | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| September $NO_2$ Blank | | | Sep 1 - Oct 1 | | | | | | | X | | | | | | | |
| $NO_2$ - Teardrop September | | | Sep 1 - Oct 1 | | | | | | | X | | | | | | | |
| $NO_2$ - Teardrop September Duplicate | | | Sep 1 - Oct 1 | | | | | | | X | | | | | | | |
| $SO_2$ - Teardrop September | | | Sep 1 - Oct 1 | | | | | | | | X | | | | | | |
| September $SO_2$ Blank | | | Sep 1 - Oct 1 | | | | | | | | X | | | | | | |
| VOC Teardrop September | | | Sep 1 - Sep 14 | | | | | X | | | | | | | | | |
| VOC Blank | | | Sep 1 - Sep 14 | | | | | X | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
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**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project (Red Lake)
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com***

Client Signature:
Affiliation:
Date/Time:

Received by:
Affiliation:
Date/Time:

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Your P.O. #: C026300307
Your Project #: 2023/01/02 - 2023/01/16
Site Location: KINROSS RED LAKE PASSIVE PROJECT

**Attention: Ryan Fletcher**

WSP E&I Canada Limited
160 TRADERS BLVD. EAST
Units 2 & 3
MISSISSAUGA, ON
CANADA L4Z 3K7

**Report Date: 2023/04/24**
Report #: R3326746
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C325698**
**Received: 2023/04/13, 07:30**

Sample Matrix: Air
# Samples Received: 4

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| NO2 Passive Analysis | 3 | 2023/04/19 | 2023/04/21 | PTC SOP-00148 | Passive NO2 in ATM |
| SO2 Passive Analysis | 3 | 2023/04/18 | 2023/04/21 | PTC SOP-00149 | Passive SO2 in ATM |

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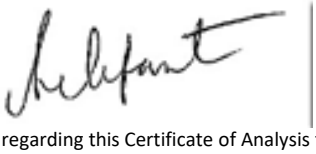
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key



Belma Elefante
Customer Service Associate
24 Apr 2023 10:18:36

Please direct all questions regarding this Certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C325698
Report Date: 2023/04/24

WSP E&I Canada Limited
Client Project #: 2023/01/02 - 2023/01/16
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF CHEMICAL ANALYSES OF AIR

| Bureau Veritas ID | | BOU977 | BOU978 | | | BOU980 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/01/02 00:00 | 2023/01/02 00:00 | | | 2023/01/02 00:00 | | |
| | UNITS | TEARDROP JANUARY | TOTE JANUARY | RDL | QC Batch | TOTE JANUARY DUP | RDL | QC Batch |
| **Passive Monitoring** | | | | | | | | |
| Calculated NO2 | ppb | 0.3 | <0.2 | 0.2 | A939258 | <0.2 | 0.2 | A939258 |
| Calculated SO2 | ppb | 0.6 | 0.3 | 0.2 | A937840 | | | |
| RDL = Reportable Detection Limit | | | | | | | | |

| Bureau Veritas ID | | BOU981 | | |
|---|---|---|---|---|
| Sampling Date | | 2023/01/02 00:00 | | |
| | UNITS | TEARDROP JANUARY DUP | RDL | QC Batch |
| **Passive Monitoring** | | | | |
| Calculated SO2 | ppb | <0.2 | 0.2 | A937840 |
| RDL = Reportable Detection Limit | | | | |



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C325698
Report Date: 2023/04/24

WSP E&I Canada Limited
Client Project #: 2023/01/02 - 2023/01/16
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| A937840 | SS6 | Spiked Blank | Calculated SO2 | | | 100 | % | 90 - 110 |
| A937840 | SS6 | Method Blank | Calculated SO2 | | <0.1 | | ppb | |
| A939258 | SDK | Spiked Blank | Calculated NO2 | | | 97 | % | 90 - 110 |
| A939258 | SDK | Method Blank | Calculated NO2 | | <0.1 | | ppb | |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C325698
Report Date: 2023/04/24

WSP E&I Canada Limited
Client Project #: 2023/01/02 - 2023/01/16
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Yang Liu

Yang Liu, Analyst II

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

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Edmonton, AB, T6B 3M9
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: 1-780-378-8500
Fax:

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

**SECTION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening | PM10 | Silica | VOC | Dustfall | $NO_2$ | $SO_2$ | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $NO_2$ Blank Jan | | | Jan 2 - 16 | | | | | | | X | | | | | | | |
| $NO_2$ - Teardrop Jan | | | Jan 2 - 16 | | | | | | | X | | | | | | | |
| $NO_2$ - Tote Jan | | | Jan 2 - 16 | | | | | | | X | | | | | | | |
| $NO_2$ - Tote Jan Dup | | | Jan 2 - 16 | | | | | | | X | | | | | | | |
| $SO_2$ - Teardrop Jan | | | Jan 2 - 16 | | | | | | | | X | | | | | | |
| $SO_2$ Blank Jan | | | Jan 2 - 16 | | | | | | | | X | | | | | | |
| $SO_2$ Tote Jan | | | Jan 2 - 16 | | | | | | | | X | | | | | | |
| $SO_2$ Teardrop Jan Dup | | | Jan 2 - 16 | | | | | | | | X | | | | | | |
| | | | | | | | | | | | | | | | | | |
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**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***

*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com***

Client Signature:
Affiliation:
Date/Time:

Received by:
Affiliation:
Date/Time:

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions*

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100.
Site#: 2023/10/01-2023/11/01
Site Location: KINROSS RED LAKE PASSIVE PROJECT

**Attention: Ryan Fletcher**

WSP E&I Canada Limited
160 TRADERS BLVD. EAST
Units 2 & 3
MISSISSAUGA, ON
CANADA L4Z 3K7

**Report Date: 2023/11/21**
Report #: R3429400
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C391991**
**Received: 2023/11/08, 08:35**

Sample Matrix: Air
# Samples Received: 4

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| NO2 Passive Analysis | 3 | 2023/11/16 | 2023/11/20 | PTC SOP-00148 | Passive NO2 in ATM |
| SO2 Passive Analysis | 3 | 2023/11/14 | 2023/11/20 | PTC SOP-00149 | Passive SO2 in ATM |

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Results relate only to the items tested.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Rowena Geron
Project Manager Assistant
21 Nov 2023 08:05:36

Please direct all questions regarding this certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

==========

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Bureau Veritas Job #: C391991
Report Date: 2023/11/21

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JCA

## RESULTS OF CHEMICAL ANALYSES OF AIR

| Bureau Veritas ID | | CEE767 | CEE768 | | | CEE770 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/10/01 00:00 | 2023/10/01 00:00 | | | 2023/10/01 00:00 | | |
| | UNITS | TEARDROP OCT | TOTE OCT | RDL | QC Batch | TOTE OCT DUP | RDL | QC Batch |
| **Passive Monitoring** | | | | | | | | |
| Calculated NO2 | ppb | 0.3 | 0.1 | 0.1 | B202904 | 0.1 | 0.1 | B202904 |
| Calculated SO2 | ppb | 0.1 | <0.1 | 0.1 | B197450 | | | |
| RDL = Reportable Detection Limit | | | | | | | | |

| Bureau Veritas ID | | CEE771 | | |
|---|---|---|---|---|
| Sampling Date | | 2023/10/01 00:00 | | |
| | UNITS | TEARDROP OCT DUP | RDL | QC Batch |
| **Passive Monitoring** | | | | |
| Calculated SO2 | ppb | <0.1 | 0.1 | B197450 |
| RDL = Reportable Detection Limit | | | | |



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C391991
Report Date: 2023/11/21

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JCA

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| B197450 | OZ | Spiked Blank | Calculated SO2 | | | 100 | % | 90 - 110 |
| B197450 | OZ | Method Blank | Calculated SO2 | | <0.1 | | ppb | |
| B202904 | S1T | Spiked Blank | Calculated NO2 | | | 98 | % | 90 - 110 |
| B202904 | S1T | Method Blank | Calculated NO2 | | <0.1 | | ppb | |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C391991
Report Date: 2023/11/21

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JCA

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Steven Gloux, Senior Analyst

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

CAM FCD-01302 /3

6744 50 Street NW
Edmonton, AB, T6B 3M9
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Phone: 1-780-378-8500
Fax:

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: EM/CB/AP/JM

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening | PM10 | Silica | VOC | Dustfall | $NO_2$ | $SO_2$ | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NO2 Blank October | | | October 1 - Nov 1 | | | | | | | X | | | | | | | |
| SO2 Blank October | | | October 1 - Nov 1 | | | | | | | | X | | | | | | |
| NO2 Tote October | | | October 1 - Nov 1 | | | | | | | X | | | | | | | |
| NO2 Tote Duplicate October | | | October 1 - Nov 1 | | | | | | | X | | | | | | | |
| NO2 Teardrop October | | | October 1 - Nov 1 | | | | | | | X | | | | | | | |
| SO2 Tote October | | | October 1 - Nov 1 | | | | | | | | X | | | | | | |
| SO2 Teardrop October | | | October 1 - Nov 1 | | | | | | | | X | | | | | | |
| SO2 Teardrop Duplicate October | | | October 1 - Nov 1 | | | | | | | | X | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2303.2023D.100
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com; emily.meek@kinross.com; curtis.bloemberg@kinross.com; aaron.peloquin@kinross.com***

Client Signature: EMeek
Affiliation:
Date/Time: 3 Nov 23

Received by:
Affiliation:
Date/Time:

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4 NO2
4 SO2
AB 23-11-08
08200

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100.
Site#: 2023/11/01-2023/12/01
Site Location: KINROSS RED LAKE PASSIVE PROJECT

**Attention: Ryan Fletcher**

WSP E&I Canada Limited
160 TRADERS BLVD. EAST
Units 2 & 3
MISSISSAUGA, ON
CANADA L4Z 3K7

**Report Date: 2023/12/19**
Report #: R3442871
Version: 2 - Revision

# CERTIFICATE OF ANALYSIS – REVISED REPORT

**BUREAU VERITAS JOB #: C3A0379**
**Received: 2023/12/07, 08:00**

Sample Matrix: Air
# Samples Received: 4

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| NO2 Passive Analysis | 3 | 2023/12/12 | 2023/12/18 | PTC SOP-00148 | Passive NO2 in ATM |
| SO2 Passive Analysis | 3 | 2023/12/12 | 2023/12/18 | PTC SOP-00149 | Passive SO2 in ATM |

This report shall not be reproduced except in full, without the written approval of the laboratory.
Results relate only to the items tested.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Rowena Geron
Project Manager Assistant
19 Dec 2023 11:02:03

Please direct all questions regarding this Certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

==========

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Bureau Veritas Job #: C3A0379
Report Date: 2023/12/19

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JCA

## RESULTS OF CHEMICAL ANALYSES OF AIR

| Bureau Veritas ID | | CGG679 | CGG680 | | | CGG682 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/11/01 00:00 | 2023/11/01 00:00 | | | 2023/11/01 00:00 | | |
| | UNITS | TEARDROP NOV | TOTE NOV | RDL | QC Batch | TOTE NOV DUP | RDL | QC Batch |
| **Passive Monitoring** | | | | | | | | |
| Calculated NO2 | ppb | 0.5 | 0.2 | 0.1 | B233586 | | | |
| Calculated SO2 | ppb | 0.2 | 0.1 | 0.1 | B230870 | <0.1 | 0.1 | B230870 |
| RDL = Reportable Detection Limit | | | | | | | | |

| Bureau Veritas ID | | CGG683 | | |
|---|---|---|---|---|
| Sampling Date | | 2023/11/01 00:00 | | |
| | UNITS | TEARDROP NOV DUP | RDL | QC Batch |
| **Passive Monitoring** | | | | |
| Calculated NO2 | ppb | 0.5 | 0.1 | B233586 |
| RDL = Reportable Detection Limit | | | | |



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C3A0379
Report Date: 2023/12/19

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JCA

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| B230870 | OZ | Spiked Blank | Calculated SO2 | | | 102 | % | 90 - 110 |
| B230870 | OZ | Method Blank | Calculated SO2 | | <0.1 | | ppb | |
| B233586 | S1T | Spiked Blank | Calculated NO2 | | | 100 | % | 90 - 110 |
| B233586 | S1T | Method Blank | Calculated NO2 | | <0.1 | | ppb | |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



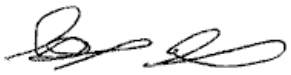
Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C3A0379
Report Date: 2023/12/19

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JCA

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Steven Gloux, Senior Analyst

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CAM FCD-01302 /3

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Edmonton, AB, T6B 3M9
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: 1-780-378-8500
Fax:

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / WSP E&I Canada
Project Manager: Ryan Fletcher
e-mail: See comments below for email list
Address: 19 Young Street,
Red Lake, ON, CA, P0V 2M0

Phone: 1 647-283-4638 Fax:

Sampled by: EM/CB/AP/JM

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening | PM10 | Silica | VOC | Dustfall | $NO_2$ | $SO_2$ | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tote Road November SO2 | | | Nov 1 - Dec 1 | | | | | | | | X | | | | | | |
| Tote Road November SO2 Duplicate | | | Nov 1 - Dec 1 | | | | | | | | X | | | | | | |
| Tote Road November NO2 | | | Nov 1 - Dec 1 | | | | | | | X | | | | | | | |
| Teardrop November NO2 | | | Nov 1 - Dec 1 | | | | | | | X | | | | | | | |
| Teardrop November NO2 Duplicate | | | Nov 1 - Dec 1 | | | | | | | X | | | | | | | |
| Teardrop November SO2 | | | Nov 1 - Dec 1 | | | | | | | | X | | | | | | |
| November SO2 Blank | | | Nov 1 - Dec 1 | | | | | | | | X | | | | | | |
| November NO2 Blank | | | Nov 1 - Dec 1 | | | | | | | X | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2303.2023D.100
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑

Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***

*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; ryan.fletcher@wsp.com; airgroup@woodplc.com; emily.meek@kinross.com; curtis.bloemberg@kinross.com; aaron.peloquin@kinross.com***

Client Signature: Emily Meek
Affiliation: Kinross
Date/Time:

Received by:
Affiliation:
Date/Time:

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4 SO2
4 NO2
AB 23-12-D7
C0S100

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100.
Site#: 2023/12/01-2024/01/02
Site Location: KINROSS RED LAKE PASSIVE PROJECT

**Attention: Ryan Fletcher**

WSP E&I Canada Limited
160 TRADERS BLVD. EAST
Units 2 & 3
MISSISSAUGA, ON
CANADA L4Z 3K7

**Report Date: 2024/01/26**
Report #: R3455765
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C403533**
**Received: 2024/01/17, 09:05**

Sample Matrix: Air
# Samples Received: 4

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| NO2 Passive Analysis | 3 | 2024/01/22 | 2024/01/24 | PTC SOP-00148 | Passive NO2 in ATM |
| SO2 Passive Analysis | 3 | 2024/01/19 | 2024/01/24 | PTC SOP-00149 | Passive SO2 in ATM |

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Results relate only to the items tested.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Rowena Geron
Customer Service Associate
26 Jan 2024 09:25:28

Please direct all questions regarding this Certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

==========

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C403533
Report Date: 2024/01/26

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JCA

## RESULTS OF CHEMICAL ANALYSES OF AIR

| Bureau Veritas ID | | CHT208 | CHT209 | | | CHT211 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/12/01 12:00 | 2023/12/01 13:00 | | | 2023/12/01 13:00 | | |
| | UNITS | TEARDROP DEC | TOTE DEC | RDL | QC Batch | TOTE DEC DUP | RDL | QC Batch |
| **Passive Monitoring** | | | | | | | | |
| Calculated NO2 | ppb | 0.4 | 0.2 | 0.1 | B261580 | | | |
| Calculated SO2 | ppb | <0.1 | <0.1 | 0.1 | B259686 | <0.1 | 0.1 | B259686 |
| RDL = Reportable Detection Limit | | | | | | | | |

| Bureau Veritas ID | | CHT212 | | |
|---|---|---|---|---|
| Sampling Date | | 2023/12/01 12:00 | | |
| | UNITS | TEARDROP DEC DUP | RDL | QC Batch |
| **Passive Monitoring** | | | | |
| Calculated NO2 | ppb | 0.4 | 0.1 | B261580 |
| RDL = Reportable Detection Limit | | | | |



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C403533
Report Date: 2024/01/26

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JCA

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| B259686 | OZ | Spiked Blank | Calculated SO2 | | | 102 | % | 90 - 110 |
| B259686 | OZ | Method Blank | Calculated SO2 | | <0.1 | | ppb | |
| B261580 | S1T | Spiked Blank | Calculated NO2 | | | 99 | % | 90 - 110 |
| B261580 | S1T | Method Blank | Calculated NO2 | | <0.1 | | ppb | |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C403533
Report Date: 2024/01/26

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JCA

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Steven Gloux, Senior Analyst

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

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Edmonton, AB, T6B 3M9
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: 1-780-378-8500
Fax:

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / WSP E&I Canada
Project Manager: Ryan Fletcher
e-mail: See comments below for email list
Address: 19 Young Street, Red Lake, ON, CA, P0V 2M0
Phone: 1 647-283-4638 Fax:

**SECTION**

Sampled by: JM

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening | PM10 | Silica | VOC | Dustfall | $NO_2$ | $SO_2$ | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Teardrop December NO2 | | | Dec 1 - Jan 2 | 12:00 | | | | | | X | | | | | | | |
| Teardrop December SO2 | | | Dec 1 - Jan 2 | 12:00 | | | | | | | X | | | | | | |
| Teardrop December NO2 Duplicate | | | Dec 1 - Jan 2 | 12:00 | | | | | | X | | | | | | | |
| Tote Road December NO2 | | | Dec 1 - Jan 2 | 13:00 | | | | | | X | | | | | | | |
| Tote Road December SO2 | | | Dec 1 - Jan 2 | 13:00 | | | | | | | X | | | | | | |
| Tote Road December SO2 Duplicate | | | Dec 1 - Jan 2 | 13:00 | | | | | | | X | | | | | | |
| December SO2 Blank | | | Dec 1 - Jan 2 | 14:30 | | | | | | | X | | | | | | |
| December NO2 Blank | | | Dec 1 - Jan 2 | 14:30 | | | | | | X | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2303.2023D.100
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; ryan.fletcher@wsp.com; airgroup@woodplc.com; emily.meek@kinross.com; curtis.bloemberg@kinross.com; aaron.peloquin@kinross.com***

Client Signature: Emily Meek
Affiliation: Kinross
Date/Time: Jan 11 2024

Received by:
Affiliation:
Date/Time:

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NB 24-01-17 4502 4N02 COC100

Your P.O. #: C026300307
Your Project #: 2023/02/02 - 2023/02/16
Site Location: KINROSS RED LAKE PASSIVE PROJECT

**Attention: Ryan Fletcher**

WSP E&I Canada Limited
160 TRADERS BLVD. EAST
Units 2 & 3
MISSISSAUGA, ON
CANADA L4Z 3K7

**Report Date: 2023/04/24**
Report #: R3326747
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C325717**
**Received: 2023/04/13, 10:30**

Sample Matrix: Air
# Samples Received: 4

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| NO2 Passive Analysis | 3 | 2023/04/19 | 2023/04/21 | PTC SOP-00148 | Passive NO2 in ATM |
| SO2 Passive Analysis | 3 | 2023/04/14 | 2023/04/21 | PTC SOP-00149 | Passive SO2 in ATM |

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Results relate only to the items tested.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Belma Elefante
Customer Service Associate
24 Apr 2023 10:07:59

Please direct all questions regarding this Certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

==========

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C325717
Report Date: 2023/04/24

WSP E&I Canada Limited
Client Project #: 2023/02/02 - 2023/02/16
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF CHEMICAL ANALYSES OF AIR

| Bureau Veritas ID | | BOV017 | BOV018 | | | BOV020 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/02/02 00:00 | 2023/02/02 00:00 | | | 2023/02/02 00:00 | | |
| | UNITS | TEARDROP FEBRUARY | TOTE FEBRUARY | RDL | QC Batch | TOTE FEBRUARY DUP | RDL | QC Batch |
| **Passive Monitoring** | | | | | | | | |
| Calculated NO2 | ppb | 0.3 | 0.3 | 0.2 | A939258 | 0.2 | 0.2 | A939258 |
| Calculated SO2 | ppb | 0.6 | 0.2 | 0.2 | A937840 | | | |
| RDL = Reportable Detection Limit | | | | | | | | |

| Bureau Veritas ID | | BOV021 | | |
|---|---|---|---|---|
| Sampling Date | | 2023/02/02 00:00 | | |
| | UNITS | TEARDROP FEBRUARY DUP | RDL | QC Batch |
| **Passive Monitoring** | | | | |
| Calculated SO2 | ppb | 0.3 | 0.2 | A937840 |
| RDL = Reportable Detection Limit | | | | |



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

## GENERAL COMMENTS

Sample BOV021 [TEARDROP FEBRUARY DUP] : SO2 result is confirmed. --YL6 20230421

**Results relate only to the items tested.**



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C325717
Report Date: 2023/04/24

WSP E&I Canada Limited
Client Project #: 2023/02/02 - 2023/02/16
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| A937840 | SS6 | Spiked Blank | Calculated SO2 | | | 100 | % | 90 - 110 |
| A937840 | SS6 | Method Blank | Calculated SO2 | | <0.1 | | ppb | |
| A939258 | SDK | Spiked Blank | Calculated NO2 | | | 97 | % | 90 - 110 |
| A939258 | SDK | Method Blank | Calculated NO2 | | <0.1 | | ppb | |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C325717
Report Date: 2023/04/24

WSP E&I Canada Limited
Client Project #: 2023/02/02 - 2023/02/16
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Yang Liu, Analyst II

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.


Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

BUREAU VERITAS

6744 50 Street NW
Edmonton, AB, T6B 3M9
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Toll Free: 1-800-668-0639
Phone: 1-780-378-8500
Fax:

# CHAIN OF CUSTODY FORM - AIR

CAM FCD-01302 /3

Page ____ of ____

**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening | PM10 | Silica | VOC | Dustfall | $NO_2$ | $SO_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| $NO_2$ Blank Feb | | | ~~Jan~~ 2 - 16 | | | | | | | | |
| $NO_2$ - Teardrop Feb | | | ~~Jan~~ 2 - 16 | | | | | | | X | |
| $NO_2$ - Tote Feb | | | ~~Jan~~ 2 - 16 | | | | | | | X | |
| $NO_2$ - Tote Feb Dupe | | Feb | ~~Jan~~ 2 - 16 | | | | | | | X | |
| $SO_2$ - Teardrop Feb | | | ~~Jan~~ 2 - 16 | | | | | | | X | |
| $SO_2$ Blank Feb | | | ~~Jan~~ 2 - 16 | | | | | | | | X |
| $SO_2$ Tote Feb | | | ~~Jan~~ 2 - 16 | | | | | | | | X |
| $SO_2$ Teardrop Feb Dup | | | ~~Jan~~ 2 - 16 | | | | | | | | X |
| | | | | | | | | | | | X |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com***

Client Signature:
Affiliation:
Date/Time:

Received by:
Affiliation:
Date/Time:

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NB 23-04-13
4hd COOL30
C15C

12 $SO_2$
12 $NO_2$

Your P.O. #: C026300307
Your Project #: 2023/03/01 - 2023/03/31
Site Location: KINROSS RED LAKE PASSIVE PROJECT

**Attention: Ryan Fletcher**

WSP E&I Canada Limited
160 TRADERS BLVD. EAST
Units 2 & 3
MISSISSAUGA, ON
CANADA L4Z 3K7

**Report Date: 2023/04/24**
Report #: R3326771
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C325720**
**Received: 2023/04/13, 10:30**

Sample Matrix: Air
# Samples Received: 4

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| NO2 Passive Analysis | 3 | 2023/04/19 | 2023/04/21 | PTC SOP-00148 | Passive NO2 in ATM |
| SO2 Passive Analysis | 3 | 2023/04/14 | 2023/04/21 | PTC SOP-00149 | Passive SO2 in ATM |

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Results relate only to the items tested.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Belma Elefante
Customer Service Associate
24 Apr 2023 10:27:02

Please direct all questions regarding this Certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

==========

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Bureau Veritas Job #: C325720
Report Date: 2023/04/24

WSP E&I Canada Limited
Client Project #: 2023/03/01 - 2023/03/31
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF CHEMICAL ANALYSES OF AIR

| Bureau Veritas ID | | BOV027 | BOV028 | | | BOV030 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/03/01 00:00 | 2023/03/01 00:00 | | | 2023/03/01 00:00 | | |
| | UNITS | TEARDROP MARCH | TOTE MARCH | RDL | QC Batch | TOTE FEB MARCH | RDL | QC Batch |
| **Passive Monitoring** | | | | | | | | |
| Calculated NO2 | ppb | <0.1 | <0.1 | 0.1 | A939258 | <0.1 | 0.1 | A939258 |
| Calculated SO2 | ppb | <0.1 | <0.1 | 0.1 | A937840 | | | |
| RDL = Reportable Detection Limit | | | | | | | | |

| Bureau Veritas ID | | BOV031 | | |
|---|---|---|---|---|
| Sampling Date | | 2023/03/01 00:00 | | |
| | UNITS | TEARDROP MARCH DUP | RDL | QC Batch |
| **Passive Monitoring** | | | | |
| Calculated SO2 | ppb | <0.1 | 0.1 | A937840 |
| RDL = Reportable Detection Limit | | | | |



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C325720
Report Date: 2023/04/24

WSP E&I Canada Limited
Client Project #: 2023/03/01 - 2023/03/31
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| A937840 | SS6 | Spiked Blank | Calculated SO2 | | | 100 | % | 90 - 110 |
| A937840 | SS6 | Method Blank | Calculated SO2 | | <0.1 | | ppb | |
| A939258 | SDK | Spiked Blank | Calculated NO2 | | | 97 | % | 90 - 110 |
| A939258 | SDK | Method Blank | Calculated NO2 | | <0.1 | | ppb | |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C325720
Report Date: 2023/04/24

WSP E&I Canada Limited
Client Project #: 2023/03/01 - 2023/03/31
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Yang Liu

Yang Liu, Analyst II

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Toll Free: 1-800-668-0639
Phone: 1-780-378-8500
Fax:

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

**SECTION**

Company Name: Kinross / Wood

Project Manager: Jacob McFee

e-mail: Please see comments for email list

Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0

Phone: (807) 728-2185 Fax:

Sampled by: JM

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening | PM10 | Silica | VOC | Dustfall | $NO_2$ | $SO_2$ | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $NO_2$ Blank March | | | Mar 1 - 31 | | | | | | | X | | | | | | | |
| $NO_2$ - Teardrop March | | | Mar 1 - 31 | | | | | | | X | | | | | | | |
| $NO_2$ - Tote March | | | Mar 1 - 31 | | | | | | | X | | | | | | | |
| $NO_2$ - Tote Feb March | | | Mar 1 - 31 | | | | | | | X | | | | | | | |
| $SO_2$ - Teardrop March | | | Mar 1 - 31 | | | | | | | | X | | | | | | |
| $SO_2$ Blank March | | | Mar 1 - 31 | | | | | | | | X | | | | | | |
| $SO_2$ Tote March | | | Mar 1 - 31 | | | | | | | | X | | | | | | |
| $SO_2$ Teardrop Feb March | | | Mar 1 - 31 | | | | | | | | X | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com***

Client Signature:
Affiliation:
Date/Time:

Received by:
Affiliation:
Date/Time:

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Your P.O. #: C026300307
Your Project #: 2023/03/31- 2023/05/01
Site Location: KINROSS RED LAKE PASSIVE PROJECT

**Attention: Ryan Fletcher**

WSP E&I Canada Limited
160 TRADERS BLVD. EAST
Units 2 & 3
MISSISSAUGA, ON
CANADA L4Z 3K7

**Report Date: 2023/06/07**
Report #: R3345477
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C338285**
**Received: 2023/05/30, 07:45**

Sample Matrix: Air
# Samples Received: 4

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| NO2 Passive Analysis | 3 | 2023/05/30 | 2023/06/07 | PTC SOP-00148 | Passive NO2 in ATM |
| SO2 Passive Analysis | 3 | 2023/05/30 | 2023/06/07 | PTC SOP-00149 | Passive SO2 in ATM |

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* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Belma Elefante
Customer Service Associate
08 Jun 2023 09:48:51

Please direct all questions regarding this Certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C338285
Report Date: 2023/06/07

WSP E&I Canada Limited
Client Project #: 2023/03/31- 2023/05/01
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF CHEMICAL ANALYSES OF AIR

| Bureau Veritas ID | | BRH761 | BRH762 | | | BRH764 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/03/31 00:00 | 2023/03/31 00:00 | | | 2023/03/31 00:00 | | |
| | UNITS | TEARDROP APRIL | TOTE APRIL | RDL | QC Batch | TOTE APRIL DUP | RDL | QC Batch |
| **Passive Monitoring** | | | | | | | | |
| Calculated NO2 | ppb | 0.2 | <0.1 | 0.1 | A978146 | 0.1 | 0.1 | A978146 |
| Calculated SO2 | ppb | 0.2 | <0.1 | 0.1 | A977404 | | | |
| RDL = Reportable Detection Limit | | | | | | | | |

| Bureau Veritas ID | | BRH765 | | |
|---|---|---|---|---|
| Sampling Date | | 2023/03/31 00:00 | | |
| | UNITS | TEARDROP APRIL DUP | RDL | QC Batch |
| **Passive Monitoring** | | | | |
| Calculated SO2 | ppb | <0.1 | 0.1 | A977404 |
| RDL = Reportable Detection Limit | | | | |



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C338285
Report Date: 2023/06/07

WSP E&I Canada Limited
Client Project #: 2023/03/31- 2023/05/01
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C338285
Report Date: 2023/06/07

WSP E&I Canada Limited
Client Project #: 2023/03/31- 2023/05/01
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| A977404 | OZ | Spiked Blank | Calculated SO2 | | | 101 | % | 90 - 110 |
| A977404 | OZ | Method Blank | Calculated SO2 | | <0.1 | | ppb | |
| A978146 | SDK | Spiked Blank | Calculated NO2 | | | 98 | % | 90 - 110 |
| A978146 | SDK | Method Blank | Calculated NO2 | | <0.1 | | ppb | |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C338285
Report Date: 2023/06/07

WSP E&I Canada Limited
Client Project #: 2023/03/31- 2023/05/01
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Yang Liu

Yang Liu, Analyst II

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

CAM FCD-01302 /3

BUREAU VERITAS

6744 50 Street NW
Edmonton, AB, T6B 3M9
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: 1-780-378-8500
Fax:

# CHAIN OF CUSTODY FORM - AIR

Page ____ of ____

**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM/CR/AM

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Du | PM | Sil ic a | V O C | us tfa | $NO_2$ | $SO_2$ | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $NO_2$ - Teardrop April | | | 31 March - 1 May | | | | | | | X | | | | | | | |
| $SO_2$ - Teardrop April Duplicate | | | 31 March - 1 May | | | | | | | | X | | | | | | |
| $SO_2$ - Teardrop April | | | 31 March - 1 May | | | | | | | | X | | | | | | |
| $SO_2$ Blank | | | 31 March - 1 May | | | | | | | | X | | | | | | |
| $SO_2$ - Tote April | | | 31 March - 1 May | | | | | | | | X | | | | | | |
| $NO_2$ - Tote April | | | 31 March - 1 May | | | | | | | X | | | | | | | |
| $NO_2$ - Tote April Duplicate | | | 31 March - 1 May | | | | | | | X | | | | | | | |
| $NO_2$ Blank | | | 31 March - 1 May | | | | | | | X | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; emily.meek@kinross.com; curtis.bloemberg@kinross.com; aaron.peloquin@kinross.com; airgroup@woodplc.com***

Client Signature:
Affiliation:
Date/Time:

Received by:
Affiliation:
Date/Time:

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RECU / RECEIVED
30 -05- 2023
7:45

$NO_2$ = 3
$SO_2$ = 4

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100.
Site#: 2023/05/01- 2023/06/01
Site Location: KINROSS RED LAKE PASSIVE PROJECT

**Attention: Ryan Fletcher**

WSP E&I Canada Limited
160 TRADERS BLVD. EAST
Units 2 & 3
MISSISSAUGA, ON
CANADA L4Z 3K7

**Report Date: 2023/06/21**
Report #: R3353049
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C341358**
**Received: 2023/06/08, 08:30**

Sample Matrix: Air
# Samples Received: 4

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| NO2 Passive Analysis | 3 | 2023/06/12 | 2023/06/20 | PTC SOP-00148 | Passive NO2 in ATM |
| SO2 Passive Analysis | 3 | 2023/06/12 | 2023/06/20 | PTC SOP-00149 | Passive SO2 in ATM |

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* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Habon Ismail
Customer Service Associate
21 Jun 2023 10:05:50

Please direct all questions regarding this Certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

==========

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C341358
Report Date: 2023/06/21

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: MRM

## RESULTS OF CHEMICAL ANALYSES OF AIR

| Bureau Veritas ID | | BRY943 | BRY945 | | | BRY947 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/05/01 | 2023/05/01 | | | 2023/05/01 | | |
| | UNITS | TEARDROP APRIL | TOTE APRIL | RDL | QC Batch | TOTE APRIL DUP | RDL | QC Batch |
| **Passive Monitoring** | | | | | | | | |
| Calculated NO2 | ppb | 0.3 | 0.1 | 0.1 | A991381 | 0.1 | 0.1 | A991381 |
| Calculated SO2 | ppb | <0.1 | <0.1 | 0.1 | A992135 | | | |
| RDL = Reportable Detection Limit | | | | | | | | |

| Bureau Veritas ID | | BRY948 | | |
|---|---|---|---|---|
| Sampling Date | | 2023/05/01 | | |
| | UNITS | TEARDROP APRIL DUP | RDL | QC Batch |
| **Passive Monitoring** | | | | |
| Calculated SO2 | ppb | <0.1 | 0.1 | A992135 |
| RDL = Reportable Detection Limit | | | | |



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C341358
Report Date: 2023/06/21

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: MRM

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| A991381 | SDK | Spiked Blank | Calculated NO2 | | | 97 | % | 90 - 110 |
| A991381 | SDK | Method Blank | Calculated NO2 | | <0.1 | | ppb | |
| A992135 | OZ | Spiked Blank | Calculated SO2 | | | 101 | % | 90 - 110 |
| A992135 | OZ | Method Blank | Calculated SO2 | | <0.1 | | ppb | |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C341358
Report Date: 2023/06/21

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: MRM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Yang Liu

Yang Liu, Analyst II

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

CAM FCD-01302 /3

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Edmonton, AB, T6B 3M9
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: 1-780-378-8500
Fax:

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM/CR/AM

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening | PM10 | Silica | VOC | Dustfall | $NO_2$ | $SO_2$ | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $NO_2$ Blank May | | | May 1- June 1 | | | | | | | X | | | | | | | |
| $NO_2$ - Teardrop May | | | May 1- June 1 | | | | | | | X | | | | | | | |
| $SO_2$ - Teardrop May Duplicate | | | May 1- June 1 | | | | | | | | X | | | | | | |
| $SO_2$ - Teardrop May | | | May 1- June 1 | | | | | | | | X | | | | | | |
| $SO_2$ Blank May | | | May 1- June 1 | | | | | | | | X | | | | | | |
| $NO_2$ - Tote May Duplicate | | | May 1- June 1 | | | | | | | X | | | | | | | |
| $SO_2$ - Tote May | | | May 1- June 1 | | | | | | | | X | | | | | | |
| $NO_2$ - Tote May | | | May 1- June 1 | | | | | | | X | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com; emily.meek@kinross.com; curtis.bloemberg@kinross.com; aaron.peloquin@kinross.com***

Client Signature:
Affiliation:
Date/Time:

Received by:
Affiliation:
Date/Time:

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NS 23-06-08 4502
C08130 4N02

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100.
Site#: 2023/06/01- 2023/07/01
Site Location: KINROSS RED LAKE PASSIVE PROJECT

**Attention: Ryan Fletcher**

WSP E&I Canada Limited
160 TRADERS BLVD. EAST
Units 2 & 3
MISSISSAUGA, ON
CANADA L4Z 3K7

**Report Date: 2023/07/20**
Report #: R3368057
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C351538**
**Received: 2023/07/10, 10:00**

Sample Matrix: Air
# Samples Received: 4

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| NO2 Passive Analysis | 3 | 2023/07/11 | 2023/07/19 | PTC SOP-00148 | Passive NO2 in ATM |
| SO2 Passive Analysis | 3 | 2023/07/11 | 2023/07/19 | PTC SOP-00149 | Passive SO2 in ATM |

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Results relate only to the items tested.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Belma Elefante
Customer Service Associate
20 Jul 2023 11:34:57

Please direct all questions regarding this Certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

==========

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C351538
Report Date: 2023/07/20

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JCE

## RESULTS OF CHEMICAL ANALYSES OF AIR

| Bureau Veritas ID | | BUF637 | BUF638 | | | BUF640 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/06/01 00:00 | 2023/06/01 00:00 | | | 2023/06/01 00:00 | | |
| | UNITS | TEARDROP JUNE | TOTE JUNE | RDL | QC Batch | TOTE JUNE DUP | RDL | QC Batch |
| **Passive Monitoring** | | | | | | | | |
| Calculated NO2 | ppb | 0.1 | <0.1 | 0.1 | B035840 | <0.1 | 0.1 | B035840 |
| Calculated SO2 | ppb | <0.1 | <0.1 | 0.1 | B029467 | | | |
| RDL = Reportable Detection Limit | | | | | | | | |

| Bureau Veritas ID | | BUF641 | | |
|---|---|---|---|---|
| Sampling Date | | 2023/06/01 00:00 | | |
| | UNITS | TEARDROP JUNE DUP | RDL | QC Batch |
| **Passive Monitoring** | | | | |
| Calculated SO2 | ppb | <0.1 | 0.1 | B029467 |
| RDL = Reportable Detection Limit | | | | |



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## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C351538
Report Date: 2023/07/20

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JCE

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| B029467 | OZ | Spiked Blank | Calculated SO2 | | | 96 | % | 90 - 110 |
| B029467 | OZ | Method Blank | Calculated SO2 | | <0.1 | | ppb | |
| B035840 | SDK | Spiked Blank | Calculated NO2 | | | 100 | % | 90 - 110 |
| B035840 | SDK | Method Blank | Calculated NO2 | | <0.1 | | ppb | |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C351538
Report Date: 2023/07/20

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JCE

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Steven Gloux, Senior Analyst

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Phone: (905) 817-5700
Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM + CB + EM

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | VOC | NO2 | SO2 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Teardrop June VOC | | | June 3 - 17 | | X | | | | | | | | | | | | |
| June Blank VOC | | | June 3 - 17 | | X | | | | | | | | | | | | |
| NO2- Blank June | | | June 1 - July 1 | | | X | | | | | | | | | | | |
| SO2- Blank June | | | June 1 - July 1 | | | | X | | | | | | | | | | |
| SO2- Tote June | | | June 1 - July 1 | | | | X | | | | | | | | | | |
| NO2- Tote June | | | June 1 - July 1 | | | X | | | | | | | | | | | |
| NO2- Tote June Duplicate | | | June 1 - July 1 | | | X | | | | | | | | | | | |
| SO2- Teardrop June | | | June 1 - July 1 | | | | X | | | | | | | | | | |
| SO2- Teardrop June Duplicate | | | June 1 - July 1 | | | | X | | | | | | | | | | |
| NO2- Teardrop June | | | June 1 - July 1 | | | X | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2003.2023D.100
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Bel Elefante

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com; emily.meek@kinross.com; aaron.peloquin@kinross.com; curtis.bloemberg@kinross.com***

Client Signature: Jacob McFee
Affiliation: Kinross
Date/Time: July 4 2023

Received by:
Affiliation:
Date/Time:

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Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100.
Site#: 2023/07/01-2023/08/01
Site Location: KINROSS RED LAKE PASSIVE PROJECT

**Attention: Ryan Fletcher**

WSP E&I Canada Limited
160 TRADERS BLVD. EAST
Units 2 & 3
MISSISSAUGA, ON
CANADA L4Z 3K7

**Report Date: 2023/08/22**
Report #: R3384291
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C361916**
**Received: 2023/08/10, 11:55**

Sample Matrix: Air
# Samples Received: 4

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| NO2 Passive Analysis | 3 | 2023/08/14 | 2023/08/22 | PTC SOP-00148 | Passive NO2 in ATM |
| SO2 Passive Analysis | 3 | 2023/08/14 | 2023/08/22 | PTC SOP-00149 | Passive SO2 in ATM |

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* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Rowena Geron
Project Manager Assistant
22 Aug 2023 19:49:01

Please direct all questions regarding this certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

==========

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Bureau Veritas Job #: C361916
Report Date: 2023/08/22

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: N/A

## RESULTS OF CHEMICAL ANALYSES OF AIR

| Bureau Veritas ID | | BWO809 | BWO810 | | | BWO812 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/07/01 10:30 | 2023/07/01 09:30 | | | 2023/07/01 09:30 | | |
| | UNITS | TEARDROP JULY | TOTE JULY | RDL | QC Batch | TOTE JULY DUP | RDL | QC Batch |
| **Passive Monitoring** | | | | | | | | |
| Calculated NO2 | ppb | <0.1 | <0.1 | 0.1 | B072986 | <0.1 | 0.1 | B072986 |
| Calculated SO2 | ppb | <0.1 | <0.1 | 0.1 | B070569 | | | |
| RDL = Reportable Detection Limit | | | | | | | | |

| Bureau Veritas ID | | BWO813 | | |
|---|---|---|---|---|
| Sampling Date | | 2023/07/01 10:30 | | |
| | UNITS | TEARDROP JULY DUP | RDL | QC Batch |
| **Passive Monitoring** | | | | |
| Calculated SO2 | ppb | 0.1 | 0.1 | B070569 |
| RDL = Reportable Detection Limit | | | | |



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C361916
Report Date: 2023/08/22

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: N/A

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| B070569 | OZ | Spiked Blank | Calculated SO2 | | | 103 | % | 90 - 110 |
| B070569 | OZ | Method Blank | Calculated SO2 | | <0.1 | | ppb | |
| B072986 | SDK | Spiked Blank | Calculated NO2 | | | 100 | % | 90 - 110 |
| B072986 | SDK | Method Blank | Calculated NO2 | | <0.1 | | ppb | |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C361916
Report Date: 2023/08/22

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: N/A

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Carmen Toker, CT, Manager Air Laboratory Services

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

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Edmonton, AB, T6B 3M9
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: 1-780-378-8500
Fax:

# CHAIN OF CUSTODY FORM - AIR

CAM FCD-01302 /3

Page ____ of ____

**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM/CR/AM

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening | PM10 | Silica | VOC | Dustfall | $NO_2$ | $SO_2$ | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $NO_2$ Blank | | | July 1 - Aug 1 | | | | | | | X | | | | | | | |
| $NO_2$ - Teardrop July | | | July 1 - Aug 1 | 10:30 | | | | | | X | | | | | | | |
| $NO_2$ - Tote July Duplicate | | | July 1 - Aug 1 | 9:30 | | | | | | X | | | | | | | |
| $NO_2$ - Tote July | | | July 1 - Aug 1 | 9:30 | | | | | | X | | | | | | | |
| $SO_2$ Blank | | | July 1 - Aug 1 | | | | | | | | X | | | | | | |
| $SO_2$ - Tote July | | | July 1 - Aug 1 | 9:30 | | | | | | | X | | | | | | |
| $SO_2$ - Teardrop July Duplicate | | | July 1 - Aug 1 | 10:30 | | | | | | | X | | | | | | |
| $SO_2$ - Teardrop July | | | July 1 - Aug 1 | 10:30 | | | | | | | X | | | | | | |
| Bell Towers VOC | | | July 1 - July 15 | 12:00 | | | | X | | | | | | | | | |
| Bell Towers VOC Blank | | | July 1 - July 15 | 12:00 | | | | X | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com; emily.meek@kinross.com; curtis.bloemberg@kinross.com; aaron.peloquin@kinross.com***

Client Signature: Jacob McFee
Affiliation: Kinross
Date/Time: August 2 8:00

Received by:
Affiliation:
Date/Time:

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Unused VOC samples 1180355 and 1180068 returned.

4SO2
4NO2
2 tot @15C
@7:30

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100.
Site#: 2023/08/01-2023/09/01
Site Location: KINROSS RED LAKE PASSIVE PROJECT

**Attention: Ryan Fletcher**

WSP E&I Canada Limited
160 TRADERS BLVD. EAST
Units 2 & 3
MISSISSAUGA, ON
CANADA L4Z 3K7

**Report Date: 2023/09/20**
Report #: R3397786
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C371355**
**Received: 2023/09/08, 12:37**

Sample Matrix: Air
# Samples Received: 4

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| NO2 Passive Analysis | 3 | 2023/09/14 | 2023/09/14 | PTC SOP-00148 | Passive NO2 in ATM |
| SO2 Passive Analysis | 3 | 2023/09/11 | 2023/09/19 | PTC SOP-00149 | Passive SO2 in ATM |

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Results relate only to the items tested.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Belma Elefante
Customer Service Associate
20 Sep 2023 10:25:17

Please direct all questions regarding this Certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

==========

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C371355
Report Date: 2023/09/20

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: N/A

## RESULTS OF CHEMICAL ANALYSES OF AIR

| Bureau Veritas ID | | BYR968 | BYR969 | | | BYR971 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/08/01 00:00 | 2023/08/01 00:00 | | | 2023/08/01 00:00 | | |
| | UNITS | TEARDROP AUG | TOTE AUG | RDL | QC Batch | TOTE AUG DUP | RDL | QC Batch |
| **Passive Monitoring** | | | | | | | | |
| Calculated NO2 | ppb | 0.2 | 0.1 | 0.1 | B110011 | 0.1 | 0.1 | B110011 |
| Calculated SO2 | ppb | 0.1 | 0.1 | 0.1 | B103010 | | | |
| RDL = Reportable Detection Limit | | | | | | | | |

| Bureau Veritas ID | | BYR972 | | |
|---|---|---|---|---|
| Sampling Date | | 2023/08/01 00:00 | | |
| | UNITS | TEARDROP AUG DUP | RDL | QC Batch |
| **Passive Monitoring** | | | | |
| Calculated SO2 | ppb | 0.1 | 0.1 | B103010 |
| RDL = Reportable Detection Limit | | | | |



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C371355
Report Date: 2023/09/20

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: N/A

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| B103010 | OZ | Spiked Blank | Calculated SO2 | | | 99 | % | 90 - 110 |
| B103010 | OZ | Method Blank | Calculated SO2 | | <0.1 | | ppb | |
| B110011 | SDK | Spiked Blank | Calculated NO2 | 2023/09/14 | | 91 | % | 90 - 110 |
| B110011 | SDK | Method Blank | Calculated NO2 | 2023/09/14 | <0.1 | | ppb | |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C371355
Report Date: 2023/09/20

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: N/A

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Steven Gloux, Senior Analyst

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

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BUREAU VERITAS

6744 50 Street NW
Edmonton, AB, T6B 3M9
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: 1-780-378-8500
Fax:

# CHAIN OF CUSTODY FORM - AIR

Page ____ of ____

**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM/CR/AM

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening | PM10 | Silica | VOC | Dustfall | $NO_2$ | $SO_2$ | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $NO_2$ Blank | | | Aug 1 - Sep 1 | | | | | | | X | | | | | | | |
| $NO_2$ - Teardrop August | | | Aug 1 - Sep 1 | | | | | | | X | | | | | | | |
| $NO_2$ - Tote August Duplicate | | | Aug 1 - Sep 1 | | | | | | | X | | | | | | | |
| $NO_2$ - Tote August | | | Aug 1 - Sep 1 | | | | | | | X | | | | | | | |
| $SO_2$ Blank | | | Aug 1 - Sep 1 | | | | | | | | X | | | | | | |
| $SO_2$ - Tote August | | | Aug 1 - Sep 1 | | | | | | | | X | | | | | | |
| $SO_2$ - Teardrop August Duplicate | | | Aug 1 - Sep 1 | | | | | | | | X | | | | | | |
| $SO_2$ - Teardrop August | | | Aug 1 - Sep 1 | | | | | | | | X | | | | | | |
| Bell Towers VOC | | | Aug 9 - Aug 24 | | | | | X | | | | | | | | | |
| Bell Towers VOC Blank | | | Aug 9 - Aug 24 | | | | | X | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com; emily.meek@kinross.com; curtis.bloemberg@kinross.com; aaron.peloquin@kinross.com***

Client Signature:
Affiliation:
Date/Time:

Received by:
Affiliation:
Date/Time:

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DB 23-09-05 08:00 4502 4502

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100.
Site#: 2023/09/01-2023/10/01
Site Location: KINROSS RED LAKE PASSIVE PROJECT

**Attention: Ryan Fletcher**

WSP E&I Canada Limited
160 TRADERS BLVD. EAST
Units 2 & 3
MISSISSAUGA, ON
CANADA L4Z 3K7

**Report Date: 2023/10/17**
Report #: R3411252
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C380462**
**Received: 2023/10/05, 08:00**

Sample Matrix: Air
# Samples Received: 4

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| NO2 Passive Analysis | 3 | 2023/10/06 | 2023/10/16 | PTC SOP-00148 | Passive NO2 in ATM |
| SO2 Passive Analysis | 3 | 2023/10/06 | 2023/10/16 | PTC SOP-00149 | Passive SO2 in ATM |

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Results relate only to the items tested.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Belma Elefante
Customer Service Associate
17 Oct 2023 09:02:17

Please direct all questions regarding this Certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

==========

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C380462
Report Date: 2023/10/17

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JCA

## RESULTS OF CHEMICAL ANALYSES OF AIR

| Bureau Veritas ID | | CBD027 | CBD028 | | | CBD030 | | | CBD031 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/09/01 00:00 | 2023/09/01 00:00 | | | 2023/09/01 00:00 | | | 2023/09/01 00:00 | | |
| | UNITS | TEARDROP SEP | TOTE SEP | RDL | QC Batch | TOTE SEP DUP | RDL | QC Batch | TEARDROP SEP DUP | RDL | QC Batch |
| **Passive Monitoring** | | | | | | | | | | | |
| Calculated NO2 | ppb | 0.2 | <0.1 | 0.1 | B150417 | <0.1 | 0.1 | B150417 | | | |
| Calculated SO2 | ppb | <0.1 | <0.1 | 0.1 | B143485 | | | | <0.1 | 0.1 | B143485 |
| RDL = Reportable Detection Limit | | | | | | | | | | | |



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## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C380462
Report Date: 2023/10/17

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JCA

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| B143485 | OZ | Spiked Blank | Calculated SO2 | | | 101 | % | 90 - 110 |
| B143485 | OZ | Method Blank | Calculated SO2 | | <0.1 | | ppb | |
| B150417 | S1T | Spiked Blank | Calculated NO2 | | | 97 | % | 90 - 110 |
| B150417 | S1T | Method Blank | Calculated NO2 | | <0.1 | | ppb | |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C380462
Report Date: 2023/10/17

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JCA

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Steven Gloux, Senior Analyst

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Toll Free: 1-800-668-0639
Phone: 1-780-378-8500
Fax:

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM/CR/AM

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening | PM10 | Silica | VOC | Dustfall | $NO_2$ | $SO_2$ | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $NO_2$ Blank | | | Sep 1 - Oct 1 | | | | | | | X | | | | | | | |
| $NO_2$ - Teardrop September | 12:10 | | Sep 1 - Oct 1 | | | | | | | X | | | | | | | |
| $NO_2$ - Tote September Duplicate | 9:25 | | Sep 1 - Oct 1 | | | | | | | X | | | | | | | |
| $NO_2$ - Tote September | 9:25 | | Sep 1 - Oct 1 | | | | | | | X | | | | | | | |
| $SO_2$ Blank | | | Sep 1 - Oct 1 | | | | | | | | X | | | | | | |
| $SO_2$ - Tote September | 9:25 | | Sep 1 - Oct 1 | | | | | | | | X | | | | | | |
| $SO_2$ - Teardrop September Duplicate | 12:10 | | Sep 1 - Oct 1 | | | | | | | | X | | | | | | |
| $SO_2$ - Teardrop September | 12:10 | | Sep 1 - Oct 1 | | | | | | | | X | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com; emily.meek@kinross.com; curtis.bloemberg@kinross.com; aaron.peloquin@kinross.com***

Client Signature:
Affiliation:
Date/Time:

Received by:
Affiliation:
Date/Time:

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Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100.
Site#: 2024/01/02-2024/02/01
Site Location: KINROSS RED LAKE PASSIVE PROJECT

**Attention: Ryan Fletcher**

WSP E&I Canada Limited
160 TRADERS BLVD. EAST
Units 2 & 3
MISSISSAUGA, ON
CANADA L4Z 3K7

**Report Date: 2024/02/26**
Report #: R3467209
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C410374**
**Received: 2024/02/08, 08:30**

Sample Matrix: Air
# Samples Received: 4

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| NO2 Passive Analysis | 3 | 2024/02/16 | 2024/02/22 | PTC SOP-00148 | Passive NO2 in ATM |
| SO2 Passive Analysis | 3 | 2024/02/16 | 2024/02/22 | PTC SOP-00149 | Passive SO2 in ATM |

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Results relate only to the items tested.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Rowena Geron
Customer Service Associate
26 Feb 2024 08:18:18

Please direct all questions regarding this Certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C410374
Report Date: 2024/02/26

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JCA

## RESULTS OF CHEMICAL ANALYSES OF AIR

| Bureau Veritas ID | | CJE519 | CJE520 | | | CJE522 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/01/02 00:00 | 2024/01/02 00:00 | | | 2024/01/02 00:00 | | |
| | UNITS | TEARDROP JAN | TOTE JAN | RDL | QC Batch | TOTE JAN DUP | RDL | QC Batch |
| **Passive Monitoring** | | | | | | | | |
| Calculated NO2 | ppb | 0.2 | 0.2 | 0.1 | B287544 | | | |
| Calculated SO2 | ppb | <0.1 | <0.1 | 0.1 | B287359 | <0.1 | 0.1 | B287359 |
| RDL = Reportable Detection Limit | | | | | | | | |

| Bureau Veritas ID | | CJE523 | | |
|---|---|---|---|---|
| Sampling Date | | 2024/01/02 00:00 | | |
| | UNITS | TEARDROP JAN DUP | RDL | QC Batch |
| **Passive Monitoring** | | | | |
| Calculated NO2 | ppb | 0.2 | 0.1 | B287544 |
| RDL = Reportable Detection Limit | | | | |



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C410374
Report Date: 2024/02/26

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JCA

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| B287359 | OZ | Spiked Blank | Calculated SO2 | | | 104 | % | 90 - 110 |
| B287359 | OZ | Method Blank | Calculated SO2 | | <0.1 | | ppb | |
| B287544 | S1T | Spiked Blank | Calculated NO2 | | | 100 | % | 90 - 110 |
| B287544 | S1T | Method Blank | Calculated NO2 | | <0.1 | | ppb | |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C410374
Report Date: 2024/02/26

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JCA

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Steven Gloux, Senior Analyst

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6744 50 Street NW
Edmonton, AB, T6B 3M9
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: 1-780-378-8500
Fax:

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / WSP E&I Canada
Project Manager: Ryan Fletcher
e-mail: See comments below for email list
Address: 19 Young Street,
Red Lake, ON, CA, P0V 2M0
Phone: 1 647-283-4638 Fax:
Sampled by: CB

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening | PM10 | Silica | VOC | Dustfall | $NO_2$ | $SO_2$ | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Teardrop NO2 January | | | February 1 2024 | | | | | | | X | | | | | | | |
| Teardrop NO2 Duplicate January | | | February 1 2024 | | | | | | | X | | | | | | | |
| Teardrop SO2 January | | | February 1 2024 | | | | | | | | X | | | | | | |
| Tote NO2 January | | | February 1 2024 | | | | | | | X | | | | | | | |
| Tote SO2 January | | | February 1 2024 | | | | | | | | X | | | | | | |
| Tote SO2 Duplicate January | | | February 1 2024 | | | | | | | | X | | | | | | |

Mean Temp= -13.7C, RH=86%, Wind Speed = 5.3 km/h

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2303.2023D.100
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; ryan.fletcher@wsp.com; airgroup@woodplc.com; emily.meek@kinross.com; curtis.bloemberg@kinross.com; aaron.peloquin@kinross.com***

Client Signature: EM
Affiliation: Kinross
Date/Time: 14-Feb

Received by:
Affiliation:
Date/Time:

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Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100.
Site#: 2024/02/01-2024/03/02
Site Location: KINROSS RED LAKE PASSIVE PROJECT

**Attention: Ryan Fletcher**

WSP E&I Canada Limited
160 TRADERS BLVD. EAST
Units 2 & 3
MISSISSAUGA, ON
CANADA L4Z 3K7

**Report Date: 2024/03/19**
Report #: R3476595
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C416554**
**Received: 2024/03/08, 08:00**

Sample Matrix: Air
# Samples Received: 4

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| NO2 Passive Analysis | 3 | 2024/03/18 | 2024/03/18 | PTC SOP-00148 | Passive NO2 in ATM |
| SO2 Passive Analysis | 3 | 2024/03/12 | 2024/03/18 | PTC SOP-00149 | Passive SO2 in ATM |

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* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Rowena Geron
Customer Service Associate
19 Mar 2024 09:40:22

Please direct all questions regarding this Certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

==========

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C416554
Report Date: 2024/03/19

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JCA

## RESULTS OF CHEMICAL ANALYSES OF AIR

| Bureau Veritas ID | | CKL785 | CKL786 | | | CKL788 | | | CKL789 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/02/01 00:00 | 2024/02/01 00:00 | | | 2024/02/01 00:00 | | | 2024/02/01 00:00 | | |
| | UNITS | TEARDROP FEB | TOTE FEB | RDL | QC Batch | TOTE FEB DUP | RDL | QC Batch | TEARDROP FEB DUP | RDL | QC Batch |
| **Passive Monitoring** | | | | | | | | | | | |
| Calculated NO2 | ppb | 0.3 | <0.1 | 0.1 | B315385 | <0.1 | 0.1 | B315385 | | | |
| Calculated SO2 | ppb | 0.2 | 0.1 | 0.1 | B310401 | | | | 0.2 | 0.1 | B310401 |
| RDL = Reportable Detection Limit | | | | | | | | | | | |



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C416554
Report Date: 2024/03/19

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JCA

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| B310401 | OZ | Spiked Blank | Calculated SO2 | | | 100 | % | 90 - 110 |
| B310401 | OZ | Method Blank | Calculated SO2 | | <0.1 | | ppb | |
| B315385 | S1T | Spiked Blank | Calculated NO2 | | | 100 | % | 90 - 110 |
| B315385 | S1T | Method Blank | Calculated NO2 | | <0.1 | | ppb | |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C416554
Report Date: 2024/03/19

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: C026300307
Sampler Initials: JCA

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Steven Gloux, Senior Analyst

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Branko Banjac, General Manager responsible for Alberta Petroleum laboratory operations.



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

CAM FCD-01302 /3

6744 50 Street NW
Edmonton, AB, T6B 3M9
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: 1-780-378-8500
Fax:

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / WSP E&I Canada
Project Manager: Ryan Fletcher
e-mail: See comments below for email list
Address: 19 Young Street, Red Lake, ON, CA, P0V 2M0
Phone: 1 647-283-4638 Fax:
Sampled by: CB

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening | PM10 | Silica | VOC | Dustfall | $NO_2$ | $SO_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Teardrop NO2 February | | | Feb 2 - Mar 2 | 10:50 | | | | | | X | |
| Teardrop SO2 Duplicate February | | | Feb 2 - Mar 2 | 10:50 | | | | | | | X |
| Teardrop SO2 February | | | Feb 2 - Mar 2 | 10:50 | | | | | | | X |
| Tote NO2 February | | | Feb 2 - Mar 2 | 9:00 | | | | | | X | |
| Tote SO2 February | | | Feb 2 - Mar 2 | 9:00 | | | | | | | X |
| Tote NO2 Duplicate February | | | Feb 2 - Mar 2 | 9:00 | | | | | | X | |
| SO2 BLANK | | | Feb 2 - Mar 2 | | | | | | | | X |
| NO2 BLANK | | | Feb 2 - Mar 2 | | | | | | | X | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2303.2023D.100
Name: Kinross Project
PO #: CA-EI-C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; ryan.fletcher@wsp.com; airgroup@woodplc.com; emily.meek@kinross.com; curtis.bloemberg@kinross.com; aaron.peloquin@kinross.com***

Client Signature: CB
Affiliation: Kinross
Date/Time: 4-Mar

Received by:
Affiliation:
Date/Time:

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NR 24-03-08
4NO2
4SO2
608100

Your P.O. #: EICAC026300307
Your Project #: OMEMA2303.2023D.100.
Site#: 2024/03/02-2024/04/01
Site Location: KINROSS RED LAKE PASSIVE PROJECT

**Attention: Ryan Fletcher**

WSP E&I Canada Limited
160 TRADERS BLVD. EAST
Units 2 & 3
MISSISSAUGA, ON
CANADA L4Z 3K7

**Report Date: 2024/04/18**
Report #: R3489208
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C424499**
**Received: 2024/04/09, 08:00**

Sample Matrix: Air
# Samples Received: 4

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| NO2 Passive Analysis | 3 | 2024/04/15 | 2024/04/16 | PTC SOP-00148 | Passive NO2 in ATM |
| SO2 Passive Analysis | 3 | 2024/04/15 | 2024/04/16 | PTC SOP-00149 | Passive SO2 in ATM |

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Results relate only to the items tested.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Rowena Geron
Customer Service Associate
18 Apr 2024 09:18:06

Please direct all questions regarding this Certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

==========

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C424499
Report Date: 2024/04/18

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JCA

## RESULTS OF CHEMICAL ANALYSES OF AIR

| Bureau Veritas ID | | CLW796 | CLW797 | | | CLW799 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/03/02 10:50 | 2024/03/02 09:00 | | | 2024/03/02 09:00 | | |
| | UNITS | TEARDROP MARCH | TOTE MARCH | RDL | QC Batch | TOTE MARCH DUP | RDL | QC Batch |
| **Passive Monitoring** | | | | | | | | |
| Calculated NO2 | ppb | 0.1 | <0.1 | 0.1 | B339210 | | | |
| Calculated SO2 | ppb | <0.1 | <0.1 | 0.1 | B338920 | <0.1 | 0.1 | B338920 |
| RDL = Reportable Detection Limit | | | | | | | | |

| Bureau Veritas ID | | CLW800 | | |
|---|---|---|---|---|
| Sampling Date | | 2024/03/02 10:50 | | |
| | UNITS | TEARDROP MARCH DUP | RDL | QC Batch |
| **Passive Monitoring** | | | | |
| Calculated NO2 | ppb | 0.2 | 0.1 | B339210 |
| RDL = Reportable Detection Limit | | | | |



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C424499
Report Date: 2024/04/18

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JCA

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C424499
Report Date: 2024/04/18

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JCA

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| B338920 | OZ | Spiked Blank | Calculated SO2 | | | 101 | % | 90 - 110 |
| B338920 | OZ | Method Blank | Calculated SO2 | | <0.1 | | ppb | |
| B339210 | S1T | Spiked Blank | Calculated NO2 | | | 99 | % | 90 - 110 |
| B339210 | S1T | Method Blank | Calculated NO2 | | <0.1 | | ppb | |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C424499
Report Date: 2024/04/18

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JCA

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Steven Gloux, Senior Analyst

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Toll Free: 1-800-668-0639
Phone: 1-780-378-8500
Fax:

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / WSP E&I Canada
Project Manager: Ryan Fletcher
e-mail: See comments below for email list
Address: 19 Young Street,
Red Lake, ON, CA, P0V 2M0
Phone: 1 647-283-4638 Fax:
Sampled by: CB

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening | PM10 | Silica | VOC | Dustfall | $NO_2$ | $SO_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| $NO_2$ Blank | | | Mar 1 - Apr 1 | | | | | | | X | |
| $NO_2$ - Teardrop March | | | Mar 1 - Apr 1 | 12:20 | | | | | | X | |
| $NO_2$ - Teardrop March Duplicate | | | Mar 1 - Apr 1 | 12:20 | | | | | | X | |
| $NO_2$ - Tote March | | | Mar 1 - Apr 1 | 10:10 | | | | | | X | |
| $SO_2$ Blank | | | Mar 1 - Apr 1 | | | | | | | | X |
| $SO_2$ - Tote March | | | Mar 1 - Apr 1 | 10:10 | | | | | | | X |
| $SO_2$ - Tote March Duplicate | | | Mar 1 - Apr 1 | 10:10 | | | | | | | X |
| $SO_2$ - Teardrop March | | | Mar 1 - Apr 1 | 12:20 | | | | | | | X |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2303.2023D.100
Name: Kinross Project
PO #: EICAC026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☐
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; ryan.fletcher@wsp.com; airgroup@woodplc.com; emily.meek@kinross.com; curtis.bloemberg@kinross.com; aaron.peloquin@kinross.com***

Client Signature: CB
Affiliation: Kinross
Date/Time: Apr 3 2024

Received by:
Affiliation:
Date/Time:

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4/SO2
4/NO2
DS 24-04-09
0800

Your P.O. #: EICAC026300307
Your Project #: OMEMA2303.2023D.100
Site#: 2024/04/01-2024/05/01
Site Location: KINROSS RED LAKE PASSIVE PROJECT

**Attention: Ryan Fletcher**

WSP E&I Canada Limited
160 TRADERS BLVD. EAST
Units 2 & 3
MISSISSAUGA, ON
CANADA L4Z 3K7

**Report Date: 2024/05/16**
Report #: R3500913
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C427888**
**Received: 2024/05/07, 08:30**

Sample Matrix: Air
# Samples Received: 4

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| NO2 Passive Analysis | 3 | 2024/05/09 | 2024/05/15 | PTC SOP-00148 | Passive NO2 in ATM |
| SO2 Passive Analysis | 3 | 2024/05/09 | 2024/05/15 | PTC SOP-00149 | Passive SO2 in ATM |

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Results relate only to the items tested.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Rowena Geron
Customer Service Associate
16 May 2024 08:15:22

Please direct all questions regarding this Certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

==========

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C427888
Report Date: 2024/05/16

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JCA

## RESULTS OF CHEMICAL ANALYSES OF AIR

| Bureau Veritas ID | | CMK895 | CMK896 | | | CMK898 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/04/01 00:00 | 2024/04/01 00:00 | | | 2024/04/01 00:00 | | |
| | UNITS | TEARDROP MARCH | TOTE MARCH | RDL | QC Batch | TOTE MARCH DUP | RDL | QC Batch |
| **Passive Monitoring** | | | | | | | | |
| Calculated NO2 | ppb | 0.4 | <0.1 | 0.1 | B364266 | | | |
| Calculated SO2 | ppb | <0.1 | 0.3 | 0.1 | B365175 | 0.1 | 0.1 | B365175 |
| RDL = Reportable Detection Limit | | | | | | | | |

| Bureau Veritas ID | | CMK899 | | |
|---|---|---|---|---|
| Sampling Date | | 2024/04/01 00:00 | | |
| | UNITS | TEARDROP MARCH DUP | RDL | QC Batch |
| **Passive Monitoring** | | | | |
| Calculated NO2 | ppb | 0.5 | 0.1 | B364266 |
| RDL = Reportable Detection Limit | | | | |



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C427888
Report Date: 2024/05/16

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JCA

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| B364266 | S1T | Spiked Blank | Calculated NO2 | | | 100 | % | 90 - 110 |
| B364266 | S1T | Method Blank | Calculated NO2 | | <0.1 | | ppb | |
| B365175 | OZ | Spiked Blank | Calculated SO2 | | | 102 | % | 90 - 110 |
| B365175 | OZ | Method Blank | Calculated SO2 | | <0.1 | | ppb | |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



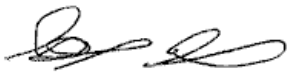
Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C427888
Report Date: 2024/05/16

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JCA

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Steven Gloux, Senior Analyst

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

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Edmonton, AB, T6B 3M9
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: 1-780-378-8500
Fax:

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / WSP E&I Canada
Project Manager: Ryan Fletcher
e-mail: See comments below for email list
Address: 19 Young Street,
Red Lake, ON, CA, P0V 2M0
Phone: 1 647-283-4638 Fax:
Sampled by: CB/EM

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening | PM10 | Silica | VOC | Dustfall | $NO_2$ | $SO_2$ | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tote SO2 April | | | April 1 - May 1 | | | | | | | | X | | | | | | |
| Tote SO2 Duplicate April | | | April 1 - May 1 | | | | | | | | X | | | | | | |
| Tote NO2 April | | | April 1 - May 1 | | | | | | | X | | | | | | | |
| Teardrop SO2 April | | | April 1 - May 1 | | | | | | | | X | | | | | | |
| Teardrop NO2 April | | | April 1 - May 1 | | | | | | | X | | | | | | | |
| Teardrop NO2 Duplicate April | | | April 1 - May 1 | | | | | | | X | | | | | | | |
| NO2 Blank April | | | April 1 - May 1 | | | | | | | X | | | | | | | |
| SO2 Blank April | | | April 1 - May 1 | | | | | | | | X | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2303.2023D.100
Name: Kinross Project
PO #: EICAC026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; ryan.fletcher@wsp.com; alrgroup@woodplc.com; emily.meek@kinross.com; curtis.bloemberg@kinross.com; aaron.peloquin@kinross.com***

Client Signature: Emily Meek EMeek
Affiliation: Kinross
Date/Time: May 2 2024

Received by:
Affiliation:
Date/Time:

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4502
4NO2
NB 24-05-07
608130

Your P.O. #: EICAC026300307
Your Project #: OMEMA2303.2023D.100
Site#: 2024/05/01-2024/06/01
Site Location: KINROSS RED LAKE PASSIVE PROJECT

**Attention: Ryan Fletcher**

WSP E&I Canada Limited
160 TRADERS BLVD. EAST
Units 2 & 3
MISSISSAUGA, ON
CANADA L4Z 3K7

**Report Date: 2024/06/18**
Report #: R3515143
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C441329**
**Received: 2024/06/06, 08:00**

Sample Matrix: Air
# Samples Received: 4

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| NO2 Passive Analysis | 3 | 2024/06/10 | 2024/06/14 | PTC SOP-00148 | Passive NO2 in ATM |
| SO2 Passive Analysis | 3 | 2024/06/11 | 2024/06/14 | PTC SOP-00149 | Passive SO2 in ATM |

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* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Rowena Geron
Customer Service Associate
18 Jun 2024 12:46:34

Please direct all questions regarding this Certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

==========

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C441329
Report Date: 2024/06/18

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JCA

## RESULTS OF CHEMICAL ANALYSES OF AIR

| Bureau Veritas ID | | COV644 | | | COV648 | | | COW508 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/05/01 00:00 | | | 2024/05/01 00:00 | | | 2024/05/01 00:00 | | |
| | UNITS | TEARDROP MAY | RDL | QC Batch | TEARDROP MAY DUP | RDL | QC Batch | BELL TOWERS MAY | RDL | QC Batch |
| **Passive Monitoring** | | | | | | | | | | |
| Calculated NO2 | ppb | 0.1 | 0.1 | B396918 | 0.1 | 0.1 | B396918 | <0.1 | 0.1 | B396918 |
| Calculated SO2 | ppb | 0.1 | 0.1 | B398087 | | | | 0.3 | 0.1 | B398087 |
| RDL = Reportable Detection Limit | | | | | | | | | | |

| Bureau Veritas ID | | COW516 | | |
|---|---|---|---|---|
| Sampling Date | | 2024/05/01 00:00 | | |
| | UNITS | BELL TOWERS MAY-DUP | RDL | QC Batch |
| **Passive Monitoring** | | | | |
| Calculated SO2 | ppb | 0.2 | 0.1 | B398087 |
| RDL = Reportable Detection Limit | | | | |



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C441329
Report Date: 2024/06/18

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JCA

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| B396918 | S1T | Spiked Blank | Calculated NO2 | | | 99 | % | 90 - 110 |
| B396918 | S1T | Method Blank | Calculated NO2 | | <0.1 | | ppb | |
| B398087 | OZ | Spiked Blank | Calculated SO2 | | | 98 | % | 90 - 110 |
| B398087 | OZ | Method Blank | Calculated SO2 | | <0.1 | | ppb | |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C441329
Report Date: 2024/06/18

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JCA

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Steven Gloux, Senior Analyst

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Branko Banjac, General Manager responsible for Alberta Petroleum laboratory operations.


Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

CAM FCD-01302 /3

BUREAU VERITAS

6744 50 Street NW
Edmonton, AB, T6B 3M9
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: 1-780-378-8500
Fax:

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / WSP E&I Canada
Project Manager: Ryan Fletcher
e-mail: See comments below for email list
Address: 19 Young Street,
Red Lake, ON, CA, P0V 2M0
Phone: 1 647-283-4638 Fax:

**SECTION**

Sampled by: EM

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening | PM10 | Silica | VOC | Dustfall | $NO_2$ | $SO_2$ | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SO2 BELL TOWERS MAY | | | MAY 1-JUNE1 | 1-Jun | | | | | | | X | | | | | | |
| SO2 BELL TOWERS MAY DUPLICATE | | | MAY 1-JUNE1 | 1-Jun | | | | | | | X | | | | | | |
| SO2 TEARDROP MAY | | | MAY 1-JUNE1 | 1-Jun | | | | | | | X | | | | | | |
| SO2 BLANK | | | MAY 1-JUNE1 | 1-Jun | | | | | | | X | | | | | | |
| NO2 BLANK | | | MAY 1-JUNE1 | 1-Jun | | | | | | X | | | | | | | |
| NO2 TEARDROP MAY | | | MAY 1-JUNE1 | 1-Jun | | | | | | X | | | | | | | |
| NO2 TEARDROP MAY DUPLICATE | | | MAY 1-JUNE1 | 1-Jun | | | | | | X | | | | | | | |
| NO2 BELL TOWERS Mat | | | MAY 1-JUNE1 | 1-Jun | | | | | | X | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2303.2023D.100
Name: Kinross Project
PO #: EICAC026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; ryan.fletcher@wsp.com; airgroup@woodplc.com; emily.meek@kinross.com; curtis.bloemberg@kinross.com; aaron.peloquin@kinross.com***

Client Signature: Emily Meek
Affiliation: KINROSS
Date/Time: May 2024 June 3

Received by:
Affiliation:
Date/Time:

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions*

NTI 2024/06/06
@ 08:00
4 NO2, 2 SO2

Your P.O. #: P104312CA001
Your Project #: CA0031272.9242.1000
Site#: 2024/06/01-2024/07/01
Site Location: KINROSS RED LAKE PASSIVE PROJECT

**Attention: Ryan Fletcher**

WSP CANADA INC.
Montreal QC
1600 Boulevard Rene-Levesque O
11e Etage
Montreal, QC
CANADA H3H 1P9

**Report Date: 2024/07/24**
Report #: R3531294
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C453569**
**Received: 2024/07/16, 08:00**

Sample Matrix: Air
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| NO2 Passive Analysis | 2 | 2024/07/17 | 2024/07/22 | PTC SOP-00148 | Passive NO2 in ATM |
| SO2 Passive Analysis | 3 | 2024/07/17 | 2024/07/22 | PTC SOP-00149 | Passive SO2 in ATM |

This report shall not be reproduced except in full, without the written approval of the laboratory.
Results relate only to the items tested.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Rowena Geron
Customer Service Associate
24 Jul 2024 14:01:50

Please direct all questions regarding this Certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

==========

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Branko Banjac, General Manager responsible for Alberta Petroleum laboratory operations.

Bureau Veritas Job #: C453569
Report Date: 2024/07/24

WSP CANADA INC.
Client Project #: CA0031272.9242.1000
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JCA

## RESULTS OF CHEMICAL ANALYSES OF AIR

| Bureau Veritas ID | | CRJ518 | CRJ521 | | | CRJ522 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/06/01 00:00 | 2024/06/01 00:00 | | | 2024/06/01 00:00 | | |
| | UNITS | TEARDROP JUNE | BELL TOWERS JUNE | RDL | QC Batch | BELL TOWERS JUNE-DUP | RDL | QC Batch |
| **Passive Monitoring** | | | | | | | | |
| Calculated NO2 | ppb | <0.1 | <0.1 | 0.1 | B442299 | | | |
| Calculated SO2 | ppb | 0.1 | <0.1 | 0.1 | B441976 | 0.1 | 0.1 | B441976 |
| RDL = Reportable Detection Limit | | | | | | | | |



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

## GENERAL COMMENTS

No NO2 Travel Blank provided/received as per the CoC. S1T (2024/07/22)

**Results relate only to the items tested.**



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C453569
Report Date: 2024/07/24

WSP CANADA INC.
Client Project #: CA0031272.9242.1000
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JCA

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| B441976 | OZ | Spiked Blank | Calculated SO2 | | | 99 | % | 90 - 110 |
| B441976 | OZ | Method Blank | Calculated SO2 | | <0.1 | | ppb | |
| B442299 | S1T | Spiked Blank | Calculated NO2 | | | 100 | % | 90 - 110 |
| B442299 | S1T | Method Blank | Calculated NO2 | | <0.1 | | ppb | |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



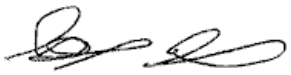
Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C453569
Report Date: 2024/07/24

WSP CANADA INC.
Client Project #: CA0031272.9242.1000
Site Location: KINROSS RED LAKE PASSIVE PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JCA

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Steven Gloux, Senior Analyst

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Branko Banjac, General Manager responsible for Alberta Petroleum laboratory operations.



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: NA

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2022/12/12**
Report #: R7426732
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C2Y2568**
**Received: 2022/11/22, 09:22**

Sample Matrix: Filter
# Samples Received: 7

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Total Particulate | 4 | N/A | 2022/12/29 | BRL SOP-00109 | Method IO-3.1 |
| Particulate Calculation | 7 | N/A | 2022/12/01 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate | 3 | N/A | 2022/12/29 | BRL SOP-00109 | Mthd IO-3-1 |
| Subcontracting from AT-AMB to BV Novi (1) | 1 | N/A | N/A | | Subcontracting |
| Air Volume from LoVol Sampling | 7 | N/A | 2022/11/22 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas (Novi), 22345 Roethal Dr. , Novi, MI, 48375

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: NA

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2022/12/12**
Report #: R7426732
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C2Y2568**
**Received: 2022/11/22, 09:22**

Encryption Key

Marinela Sim
Project Manager
12 Dec 2022 14:22:42

Please direct all questions regarding this Certificate of Analysis to:
Marinela Sim, Project Manager
Email: Marinela.Sim@bureauveritas.com
Phone# (905)817-5828

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2Y2568
Report Date: 2022/12/12

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | UJH800 | | UJH801 | UJH802 | UJH803 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2022/10/02 | | 2022/10/08 | 2022/10/14 | 2022/10/20 | | |
| COC Number | | NA | | NA | NA | NA | | |
| | UNITS | 22080206 OCT 2 TEARDROP PM 10 | RDL | 22051209 OCT 8 TEARDROP PM 10 | 22051210 OCT 14 TEARDROP PM 10 | 22051208 OCT 20 TEARDROP PM 10 | RDL | QC Batch |
| Particulate | ug/m3 | 9.3 | 1.2 | <12 | <12 | <12 | 12 | 8360606 |
| Particulate Weight on Filter | mg | N/A | N/A | <0.3 (1) | <0.3 (2) | <0.3 (2) | 0.3 | 8397922 |
| Particulate Weight on Filter | ug | 223 | 30 | N/A | N/A | N/A | N/A | 8378333 |
| Volume | m3 | 24.05 | N/A | 24.05 | 24.05 | 24.05 | N/A | ONSITE |
| **Subcontracted Analysis** | | | | | | | | |
| Subcontract Parameter | N/A | ATTACHED | N/A | N/A | N/A | N/A | N/A | 8395449 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) Filter weight is found to be negative because filter was torn
(2) Filter weight is found to be negative because filter edges are frayed.

| Bureau Veritas ID | | UJH804 | | UJH805 | UJH806 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2022/10/26 | | 2022/11/02 | 2022/11/13 | | |
| COC Number | | NA | | NA | NA | | |
| | UNITS | 22051207 OCT 26 TEARDROP PM 10 | RDL | 20204306 NOV 2 TEARDROP PM 2.5 | 20204309 NOV13 TEARDROP PM 2.5 | RDL | QC Batch |
| Particulate | ug/m3 | <12 | 12 | 7.4 | 6.5 | 1.2 | 8361781 |
| Particulate Weight on Filter | mg | <0.3 (1) | 0.3 | N/A | N/A | N/A | 8397922 |
| Particulate Weight on Filter | ug | N/A | N/A | 177 | 157 | 30 | 8378333 |
| Volume | m3 | 24.05 | N/A | 24.05 | 24.05 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) Filter weight is found to be negative because filter edges are frayed.



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2Y2568
Report Date: 2022/12/12

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** UJH800 **Collected:** 2022/10/02
**Sample ID:** 22080206 OCT 2 TEARDROP PM 10 **Shipped:**
**Matrix:** Filter **Received:** 2022/11/22

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8360606 | N/A | 2022/12/01 | Automated Statchk |
| Total Particulate | BAL | 8378333 | N/A | 2022/12/29 | Nancy Dhir |
| Subcontracting from AT-AMB to BV Novi | | 8395449 | N/A | | Marinela Sim |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2022/11/22 | Prabhdeep Kaur |

**Bureau Veritas ID:** UJH801 **Collected:** 2022/10/08
**Sample ID:** 22051209 OCT 8 TEARDROP PM 10 **Shipped:**
**Matrix:** Filter **Received:** 2022/11/22

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Total Particulate | BAL | 8397922 | N/A | 2022/12/29 | Nancy Dhir |
| Particulate Calculation | CALC | 8360606 | N/A | 2022/12/01 | Automated Statchk |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2022/11/22 | Prabhdeep Kaur |

**Bureau Veritas ID:** UJH802 **Collected:** 2022/10/14
**Sample ID:** 22051210 OCT 14 TEARDROP PM 10 **Shipped:**
**Matrix:** Filter **Received:** 2022/11/22

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Total Particulate | BAL | 8397922 | N/A | 2022/12/29 | Nancy Dhir |
| Particulate Calculation | CALC | 8360606 | N/A | 2022/12/01 | Automated Statchk |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2022/11/22 | Prabhdeep Kaur |

**Bureau Veritas ID:** UJH803 **Collected:** 2022/10/20
**Sample ID:** 22051208 OCT 20 TEARDROP PM 10 **Shipped:**
**Matrix:** Filter **Received:** 2022/11/22

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Total Particulate | BAL | 8397922 | N/A | 2022/12/29 | Nancy Dhir |
| Particulate Calculation | CALC | 8360606 | N/A | 2022/12/01 | Automated Statchk |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2022/11/22 | Prabhdeep Kaur |

**Bureau Veritas ID:** UJH804 **Collected:** 2022/10/26
**Sample ID:** 22051207 OCT 26 TEARDROP PM 10 **Shipped:**
**Matrix:** Filter **Received:** 2022/11/22

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Total Particulate | BAL | 8397922 | N/A | 2022/12/29 | Nancy Dhir |
| Particulate Calculation | CALC | 8361781 | N/A | 2022/12/01 | Automated Statchk |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2022/11/22 | Prabhdeep Kaur |



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2Y2568
Report Date: 2022/12/12

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** UJH805
**Sample ID:** 20204306 NOV 2 TEARDROP PM 2.5
**Matrix:** Filter

**Collected:** 2022/11/02
**Shipped:**
**Received:** 2022/11/22

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8361781 | N/A | 2022/12/01 | Automated Statchk |
| Total Particulate | BAL | 8378333 | N/A | 2022/12/29 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2022/11/22 | Prabhdeep Kaur |

**Bureau Veritas ID:** UJH806
**Sample ID:** 20204309 NOV13 TEARDROP PM 2.5
**Matrix:** Filter

**Collected:** 2022/11/13
**Shipped:**
**Received:** 2022/11/22

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8361781 | N/A | 2022/12/01 | Automated Statchk |
| Total Particulate | BAL | 8378333 | N/A | 2022/12/29 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2022/11/22 | Prabhdeep Kaur |



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

| | |
|---|---|
| Package 1 | 12.0°C |

**Results relate only to the items tested.**



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

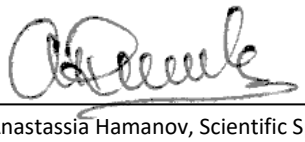
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2Y2568
Report Date: 2022/12/12

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

Marinela Sim, Project Manager

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

JOB #

CLIENT NAME: Private Individuals



## Internal Sample Receipt Form

| | Sample Identification | Date Sampled | Time Sampled | Matrix | # of Bottles | Comments |
|---|---|---|---|---|---|---|
| 1 | PM2.5 20204309 | Nov 13 | | | 1 | |
| 2 | PM2.5 20204306 | Nov 2 | | | 1 | |
| 3 | 47MM Quartz 22051207 | Oct 26 | | | 1 | |
| 4 | 47mm Quartz 22051208 | Oct 20 | | | 1 | |
| 5 | 47MM Quartz 22051210 | Oct 14 | | | 1 | |
| 6 | 47mm Quartz 22051209 | Oct 8 | | | 1 | |
| 7 | 47mm PVC 22080206 | Oct 2 | | | 1 | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |

22-Nov-22 09:22
Lori Dufour
C2Y2568
MUM AIR-RmTmp

| Received by (Signature & Print): | Date | Time | Cooler ID | Temperature | Custody seal Present | | Custody Seal Intact | | Ice Present | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | YES | NO | YES | NO | YES | NO |
| 2 M TRINH | 2022/11/22 | 0922 | | 12/4/13 | | ✓ | | ✓ | | ✓ |
| | | | | | | | | | | |

CAM FCD-01302 /3

BUREAU VERITAS

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Mississauga Ontario ,L5N 2L8
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Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR

Page ____ of ____

**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM + CR

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening (Inner Diameter | Dust Fall Opening (Outer Diameter | Silica | PM 10 | Dustfall | $NO_2$ | $SO_2$ | VOC | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| October Dustfall Teardrop | | | Oct 1 - Nov 1 | 1-Nov | 5.5" | 6.5" | | | X | | | | | | | | |
| October Dustfall Tote Road | | | Oct 1 - Nov 1 | 1-Nov | 5.5" | 6.5" | | | X | | | | | | | | |
| October Dusfall Bell Towers | | | Oct 1 - Nov 1 | 1-Nov | 5.5" | 6.5" | | | X | | | | | | | | |
| 22080206 Oct 2 Teardrop PM 10 | 24.05 | 16.7 | 2-Oct | 14:20 | | | X | X | | | | | | | | | |
| 22051209 Oct 8 Teardrop PM 10 | 24.05 | 16.7 | 8-Oct | 12:30 | | | X | X | | | | | | | | | |
| 22051210 Oct 14 Teardrop PM 10 | 24.05 | 16.7 | 14-Oct | 12:50 | | | X | X | | | | | | | | | |
| 22051208 Oct 20 Teardrop PM 10 | 24.05 | 16.7 | 20-Oct | 10:15 | | | X | X | | | | | | | | | |
| 22051207 Oct 26 Teardrop PM 10 | 24.05 | 16.7 | 26-Oct | 11:40 | | | X | X | | | | | | | | | |
| 20204306 Nov 2 Teardrop PM 2.5 | 24.05 | 16.7 | 2-Nov | 13:30 | | | X | X | | | | | | | | | |
| 20204309 Nov 13 Teardrop PM 2.5 | 24.05 | 16.7 | 13-Nov | 14:30 | | | X | X | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

22-Nov-22 09:22
Cristina (Maria) Bacchus
C2Y2568
MUM AIR-RmTmp

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com***

Client Signature:
Affiliation:
Date/Time:

Received by:
Affiliation:
Date/Time:

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Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/01/06**
Report #: R7456425
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C2AR417**
**Received: 2022/12/23, 09:48**

Sample Matrix: Filter
# Samples Received: 11

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Particulate Calculation | 11 | N/A | 2023/01/03 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate | 11 | N/A | 2023/01/30 | BRL SOP-00109 | Mthd IO-3-1 |
| Air Volume from LoVol Sampling | 11 | N/A | 2022/12/23 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/01/06**
Report #: R7456425
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C2AR417**
**Received: 2022/12/23, 09:48**

Encryption Key

Marinela Sim
Project Manager
06 Jan 2023 17:29:46

Please direct all questions regarding this Certificate of Analysis to:
Marinela Sim, Project Manager
Email: Marinela.Sim@bureauveritas.com
Phone# (905)817-5828

==========

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Bureau Veritas Job #: C2AR417
Report Date: 2023/01/06

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | URD828 | URD829 | URD830 | URD831 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2022/11/19 | 2022/11/25 | 2022/12/01 | 2022/12/07 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | 20204319 NOV19 TEARDROP PM2.5 | 20204313 NV 25 TEARDROP PM2.5 | 20204314 DEC 1 TEARDROP PM2.5 | 20204325 DEC 7 TEARDROP PM 2.5 | RDL | QC Batch |
| Particulate | ug/m3 | 12.4 | 6.6 | 9.1 | 3.5 | 1.2 | 8422117 |
| Particulate Weight on Filter | ug | 299 | 160 | 219 | 85 | 30 | 8430025 |
| Volume | m3 | 24.05 | 24.05 | 24.05 | 24.05 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

| Bureau Veritas ID | | URD832 | URD833 | URD835 | URD836 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2022/12/12 | 2022/12/18 | 2022/11/25 | 2022/12/01 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | WC1419268 DEC 12 TEARDROP PM2.5 | WC1419262 DEC 18 TEARDROP PM 2.5 | 20204318 NOV 25 TOTE PM 2.5 | 20204315 DEC1 TOTE PM 2.5 | RDL | QC Batch |
| Particulate | ug/m3 | 3.4 | <1.2 | 7.8 | 4.6 | 1.2 | 8422117 |
| Particulate Weight on Filter | ug | 83 | <30 | 188 | 112 | 30 | 8430025 |
| Volume | m3 | 24.05 | 24.05 | 24.05 | 24.05 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

| Bureau Veritas ID | | URD837 | URD838 | URD839 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2022/12/07 | 2022/12/12 | 2022/12/18 | | |
| COC Number | | n/a | n/a | n/a | | |
| | UNITS | 20204324 DEC7 TOTE PM 2.5 | WC1419261 DEC 12 TOTE PM 2.5 | WC1419267 DEC 18 TOTE PM 2.5 | RDL | QC Batch |
| Particulate | ug/m3 | 3.2 | 2.0 | <1.2 | 1.2 | 8422117 |
| Particulate Weight on Filter | ug | 76 | 49 | <30 | 30 | 8430025 |
| Volume | m3 | 24.05 | 24.05 | 24.05 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## TEST SUMMARY

**Bureau Veritas ID:** URD828 **Collected:** 2022/11/19
**Sample ID:** 20204319 NOV19 TEARDROP PM2.5 **Shipped:**
**Matrix:** Filter **Received:** 2022/12/23

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8422117 | N/A | 2023/01/03 | Automated Statchk |
| Total Particulate | BAL | 8430025 | N/A | 2023/01/30 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2022/12/23 | Prabhdeep Kaur |

**Bureau Veritas ID:** URD829 **Collected:** 2022/11/25
**Sample ID:** 20204313 NV 25 TEARDROP PM2.5 **Shipped:**
**Matrix:** Filter **Received:** 2022/12/23

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8422117 | N/A | 2023/01/03 | Automated Statchk |
| Total Particulate | BAL | 8430025 | N/A | 2023/01/30 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2022/12/23 | Prabhdeep Kaur |

**Bureau Veritas ID:** URD830 **Collected:** 2022/12/01
**Sample ID:** 20204314 DEC 1 TEARDROP PM2.5 **Shipped:**
**Matrix:** Filter **Received:** 2022/12/23

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8422117 | N/A | 2023/01/03 | Automated Statchk |
| Total Particulate | BAL | 8430025 | N/A | 2023/01/30 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2022/12/23 | Prabhdeep Kaur |

**Bureau Veritas ID:** URD831 **Collected:** 2022/12/07
**Sample ID:** 20204325 DEC 7 TEARDROP PM 2.5 **Shipped:**
**Matrix:** Filter **Received:** 2022/12/23

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8422117 | N/A | 2023/01/03 | Automated Statchk |
| Total Particulate | BAL | 8430025 | N/A | 2023/01/30 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2022/12/23 | Prabhdeep Kaur |

**Bureau Veritas ID:** URD832 **Collected:** 2022/12/12
**Sample ID:** WC1419268 DEC 12 TEARDROP PM2.5 **Shipped:**
**Matrix:** Filter **Received:** 2022/12/23

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8422117 | N/A | 2023/01/03 | Automated Statchk |
| Total Particulate | BAL | 8430025 | N/A | 2023/01/30 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2022/12/23 | Prabhdeep Kaur |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## TEST SUMMARY

**Bureau Veritas ID:** URD833 **Collected:** 2022/12/18
**Sample ID:** WC1419262 DEC 18 TEARDROP PM 2.5 **Shipped:**
**Matrix:** Filter **Received:** 2022/12/23

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8422117 | N/A | 2023/01/03 | Automated Statchk |
| Total Particulate | BAL | 8430025 | N/A | 2023/01/30 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2022/12/23 | Prabhdeep Kaur |

**Bureau Veritas ID:** URD835 **Collected:** 2022/11/25
**Sample ID:** 20204318 NOV 25 TOTE PM 2.5 **Shipped:**
**Matrix:** Filter **Received:** 2022/12/23

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8422117 | N/A | 2023/01/03 | Automated Statchk |
| Total Particulate | BAL | 8430025 | N/A | 2023/01/30 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2022/12/23 | Prabhdeep Kaur |

**Bureau Veritas ID:** URD836 **Collected:** 2022/12/01
**Sample ID:** 20204315 DEC1 TOTE PM 2.5 **Shipped:**
**Matrix:** Filter **Received:** 2022/12/23

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8422117 | N/A | 2023/01/03 | Automated Statchk |
| Total Particulate | BAL | 8430025 | N/A | 2023/01/30 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2022/12/23 | Prabhdeep Kaur |

**Bureau Veritas ID:** URD837 **Collected:** 2022/12/07
**Sample ID:** 20204324 DEC7 TOTE PM 2.5 **Shipped:**
**Matrix:** Filter **Received:** 2022/12/23

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8422117 | N/A | 2023/01/03 | Automated Statchk |
| Total Particulate | BAL | 8430025 | N/A | 2023/01/30 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2022/12/23 | Prabhdeep Kaur |

**Bureau Veritas ID:** URD838 **Collected:** 2022/12/12
**Sample ID:** WC1419261 DEC 12 TOTE PM 2.5 **Shipped:**
**Matrix:** Filter **Received:** 2022/12/23

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8422117 | N/A | 2023/01/03 | Automated Statchk |
| Total Particulate | BAL | 8430025 | N/A | 2023/01/30 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2022/12/23 | Prabhdeep Kaur |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2AR417
Report Date: 2023/01/06

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** URD839
**Sample ID:** WC1419267 DEC 18 TOTE PM 2.5
**Matrix:** Filter

**Collected:** 2022/12/18
**Shipped:**
**Received:** 2022/12/23

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8422117 | N/A | 2023/01/03 | Automated Statchk |
| Total Particulate | BAL | 8430025 | N/A | 2023/01/30 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2022/12/23 | Prabhdeep Kaur |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

| | |
|---|---|
| Package 1 | 19.0°C |

**Results relate only to the items tested.**



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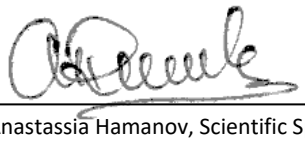
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2AR417
Report Date: 2023/01/06

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

# AIR

6740 Campobello Rd
Mississauga Ontario ,L5N 2L8
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

CAM FCD-01302 /3

## CHAIN OF CUSTODY FORM - AIR

Page ____ of ____

**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM + CR

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening (Inner Diameter) | Dust Fall Opening (Outer Diameter) | Silica | PM 10 | Dustfall | $NO_2$ | $SO_2$ | VOC | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| November Dustfall Teardrop | | | Nov 1- Dec 1 | 1-Dec | 5.5" | 6.5" | | | X | | | | | | | | | |
| November Dustfall Tote Road | | | Nov 1- Dec 1 | 1-Dec | 5.5" | 6.5" | | | X | | | | | | | | | |
| November Dusfall Bell Towers | | | Nov 1- Dec 1 | 1-Dec | 5.5" | 6.5" | | | X | | | | | | | | | |
| 20204319 Nov 19 Teardrop PM 2.5 | 24.05 | 16.7 | 19-Nov | | | | X | X | | | | | | | | | | |
| 20204313 Nov 25 Teardrop PM 2.5 | 24.05 | 16.7 | 25-Nov | | | | X | X | | | | | | | | | | |
| 20204314 Dec 1 Teardrop PM 2.5 | 24.05 | 16.7 | 1-Dec | | | | X | X | | | | | | | | | | |
| 20204325 Dec 7 Teardrop PM 2.5 | 24.05 | 16.7 | 7-Dec | | | | X | X | | | | | | | | | | |
| WC1419268 Dec 12 Teardrop PM 2.5 | 24.05 | 16.7 | 12-Dec | | | | X | X | | | | | | | | | | |
| WC1419262 Dec 18 Teardrop PM 2.5 | 24.05 | 16.7 | 18-Dec | | | | X | X | | | | | | | | | | |
| 20204326 Dec 25 Teardrop PM 2.5 | 24.05 | 16.7 | 25-Dec | | | | X | X | | | | | | | | | | |
| 20204318 Nov 25 Tote PM 2.5 | 24.05 | 16.7 | 25-Nov | | | | X | X | | | | | | | | | | |
| 20204315 Dec 1 Tote PM 2.5 | 24.05 | 16.7 | 1-Dec | | | | X | X | | | | | | | | | | |
| 20204324 Dec 7 Tote PM 2.5 | 24.05 | 16.7 | 7-Dec | | | | X | X | | | | | | | | | | |
| WC1419261 Dec 12 Tote PM 2.5 | 24.05 | 16.7 | 12-Dec | | | | X | X | | | | | | | | | | |
| WC1419267 Dec 18 Tote PM 2.5 | 24.05 | 16.7 | 18-Dec | | | | X | X | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

23-Dec-22 09:48
Cristina (Maria) Bacchus
C2AR417
AN4 AIR-RmTmp

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

[signature] 0948 19/19/19

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/01/06**
Report #: R7456425
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C2AR417**
**Received: 2022/12/23, 09:48**

Sample Matrix: Filter
# Samples Received: 11

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Particulate Calculation | 11 | N/A | 2023/01/03 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate | 11 | N/A | 2023/01/30 | BRL SOP-00109 | Mthd IO-3-1 |
| Air Volume from LoVol Sampling | 11 | N/A | 2022/12/23 | | |

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

Encryption Key

Marinela Sim
Project Manager
06 Jan 2023 17:29:47

Please direct all questions regarding this Certificate of Analysis to:
Marinela Sim, Project Manager
Email: Marinela.Sim@bureauveritas.com
Phone# (905)817-5828

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C2AR417
Report Date: 2023/01/06

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | URD828 | URD829 | URD830 | URD831 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2022/11/19 | 2022/11/25 | 2022/12/01 | 2022/12/07 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | 20204319 NOV19 TEARDROP PM2.5 | 20204313 NV 25 TEARDROP PM2.5 | 20204314 DEC 1 TEARDROP PM2.5 | 20204325 DEC 7 TEARDROP PM 2.5 | RDL | QC Batch |
| Particulate | ug/m3 | 12.4 | 6.6 | 9.1 | 3.5 | 1.2 | 8422117 |
| Particulate Weight on Filter | ug | 299 | 160 | 219 | 85 | 30 | 8430025 |
| Volume | m3 | 24.05 | 24.05 | 24.05 | 24.05 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

| Bureau Veritas ID | | URD832 | URD833 | URD835 | URD836 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2022/12/12 | 2022/12/18 | 2022/11/25 | 2022/12/01 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | WC1419268 DEC 12 TEARDROP PM2.5 | WC1419262 DEC 18 TEARDROP PM 2.5 | 20204318 NOV 25 TOTE PM 2.5 | 20204315 DEC1 TOTE PM 2.5 | RDL | QC Batch |
| Particulate | ug/m3 | 3.4 | <1.2 | 7.8 | 4.6 | 1.2 | 8422117 |
| Particulate Weight on Filter | ug | 83 | <30 | 188 | 112 | 30 | 8430025 |
| Volume | m3 | 24.05 | 24.05 | 24.05 | 24.05 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

| Bureau Veritas ID | | URD837 | URD838 | URD839 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2022/12/07 | 2022/12/12 | 2022/12/18 | | |
| COC Number | | n/a | n/a | n/a | | |
| | UNITS | 20204324 DEC7 TOTE PM 2.5 | WC1419261 DEC 12 TOTE PM 2.5 | WC1419267 DEC 18 TOTE PM 2.5 | RDL | QC Batch |
| Particulate | ug/m3 | 3.2 | 2.0 | <1.2 | 1.2 | 8422117 |
| Particulate Weight on Filter | ug | 76 | 49 | <30 | 30 | 8430025 |
| Volume | m3 | 24.05 | 24.05 | 24.05 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

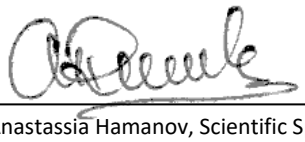
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2AR417
Report Date: 2023/01/06

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/02/24**
Report #: R7522270
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C338735**
**Received: 2023/02/09, 09:23**

Sample Matrix: Water
# Samples Received: 6

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | 6 | 2023/02/22 | 2023/02/24 | BRL SOP-00121 | ASTM D1739 m |
| Soluble Part. in Dustfall (D1739mod) | 6 | 2023/02/22 | 2023/02/24 | BRL SOP-00121 | ASTM D1739 m |
| Volume of Sample Received | 6 | 2023/02/22 | 2023/02/22 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/02/24**
Report #: R7522270
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C338735**
**Received: 2023/02/09, 09:23**

Encryption Key

Marinela Sim
Project Manager
27 Feb 2023 12:18:16

Please direct all questions regarding this Certificate of Analysis to:
Marinela Sim, Project Manager
Email: Marinela.Sim@bureauveritas.com
Phone# (905)817-5828

==========

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Bureau Veritas Job #: C338735
Report Date: 2023/02/24

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | VAD936 | | VAD937 | | VAD938 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2022/12/01 | | 2022/12/01 | | 2022/12/01 | | |
| COC Number | | n/a | | n/a | | n/a | | |
| | UNITS | DECEMBER TOTE DUSTFALL | RDL | DECEMBER TEARDROP DUSTFALL | RDL | DECEMBER BELL TOWERS DUSTFALL | RDL | QC Batch |
| | | | | | | | | |
| Insoluble Particulate | mg | 1.0 | 1.0 | 1.5 | 1.0 | 1.1 | 1.0 | 8516523 |
| Soluble Particulate | mg | 5.2 | 1.3 | 2.4 | 1.6 | <2.0 | 2.0 | 8516526 |
| **Charge/Prep Analysis** | | | | | | | | |
| Volume of sample | ml | 87 | 1 | 200 | 1 | 47 | 1 | 8516512 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

| Bureau Veritas ID | | VAD939 | VAD940 | | VAD941 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/01/03 | 2023/01/03 | | 2023/01/03 | | |
| COC Number | | n/a | n/a | | n/a | | |
| | UNITS | JANUARY TOTE DUSTFALL | JANUARY TEARDROP DUSTFALL | RDL | JANUARY BELL TOWERS DUSTFALL | RDL | QC Batch |
| | | | | | | | |
| Insoluble Particulate | mg | 1.0 | <1.0 | 1.0 | <1.0 | 1.0 | 8516523 |
| Soluble Particulate | mg | <2.0 | <2.0 | 2.0 | 1.6 | 1.5 | 8516526 |
| **Charge/Prep Analysis** | | | | | | | |
| Volume of sample | ml | 46 | 27 | 1 | 160 | 1 | 8516512 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C338735
Report Date: 2023/02/24

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** VAD936 **Collected:** 2022/12/01
**Sample ID:** DECEMBER TOTE DUSTFALL **Shipped:**
**Matrix:** Water **Received:** 2023/02/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 8516523 | 2023/02/22 | 2023/02/24 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 8516526 | 2023/02/22 | 2023/02/24 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 8516512 | 2023/02/22 | 2023/02/22 | Mohammad Wahidul Alam |

**Bureau Veritas ID:** VAD937 **Collected:** 2022/12/01
**Sample ID:** DECEMBER TEARDROP DUSTFALL **Shipped:**
**Matrix:** Water **Received:** 2023/02/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 8516523 | 2023/02/22 | 2023/02/24 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 8516526 | 2023/02/22 | 2023/02/24 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 8516512 | 2023/02/22 | 2023/02/22 | Mohammad Wahidul Alam |

**Bureau Veritas ID:** VAD938 **Collected:** 2022/12/01
**Sample ID:** DECEMBER BELL TOWERS DUSTFALL **Shipped:**
**Matrix:** Water **Received:** 2023/02/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 8516523 | 2023/02/22 | 2023/02/24 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 8516526 | 2023/02/22 | 2023/02/24 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 8516512 | 2023/02/22 | 2023/02/22 | Mohammad Wahidul Alam |

**Bureau Veritas ID:** VAD939 **Collected:** 2023/01/03
**Sample ID:** JANUARY TOTE DUSTFALL **Shipped:**
**Matrix:** Water **Received:** 2023/02/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 8516523 | 2023/02/22 | 2023/02/24 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 8516526 | 2023/02/22 | 2023/02/24 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 8516512 | 2023/02/22 | 2023/02/22 | Mohammad Wahidul Alam |

**Bureau Veritas ID:** VAD940 **Collected:** 2023/01/03
**Sample ID:** JANUARY TEARDROP DUSTFALL **Shipped:**
**Matrix:** Water **Received:** 2023/02/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 8516523 | 2023/02/22 | 2023/02/24 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 8516526 | 2023/02/22 | 2023/02/24 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 8516512 | 2023/02/22 | 2023/02/22 | Mohammad Wahidul Alam |



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C338735
Report Date: 2023/02/24

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** VAD941
**Sample ID:** JANUARY BELL TOWERS DUSTFALL
**Matrix:** Water

**Collected:** 2023/01/03
**Shipped:**
**Received:** 2023/02/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Insoluble Part. in Dustfall (D1739mod) | BAL | 8516523 | 2023/02/22 | 2023/02/24 | Mohammad Wahidul Alam |
| Soluble Part. in Dustfall (D1739mod) | BAL | 8516526 | 2023/02/22 | 2023/02/24 | Mohammad Wahidul Alam |
| Volume of Sample Received | | 8516512 | 2023/02/22 | 2023/02/22 | Mohammad Wahidul Alam |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT



| | | | SPIKED BLANK | | Method Blank | |
|---|---|---|---|---|---|---|
| **QC Batch** | **Parameter** | **Date** | **% Recovery** | **QC Limits** | **Value** | **UNITS** |
| 8516523 | Insoluble Particulate | 2023/02/24 | 98 | 85 - 115 | <1.0 | mg |
| 8516526 | Soluble Particulate | 2023/02/24 | 99 | 85 - 115 | <0.20 | mg |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C338735
Report Date: 2023/02/24

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

09-Feb-23 09:23

Gina Baybayan

C338735

CAM FCD-01302 /3

Rd Toll Free: 1-800-668-0639

ario ,L5N 2L8 Phone: (905) 817-5700

www.bvlabs.com Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR

Page ____ of ____

**CLIENT INFORMATION**

Company Name: Kinross / Wood

Project Manager: Jacob McFee

e-mail: Please see comments for email list

Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0

Phone: (807) 728-2185 Fax:

Sampled by: JM + CR

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening (Inner Diameter) | Dust Fall Opening (Outer Diameter) | Silica | PM 10 | Dustfall | TSP | Metals | Mercury | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| December Tote Dustfall | | | Dec 1 - Jan 3 | 3-Jan | 5.5" | 6.5" | | | X | | | | | | | | |
| December Teardrop Dustfall | | | Dec 1 - Jan 3 | 3-Jan | 5.5" | 6.5" | | | X | | | | | | | | |
| December Bell Towers Dustfall | | | Dec 1 - Jan 3 | 3-Jan | 5.5" | 6.5" | | | X | | | | | | | | |
| January Tote Dustfall | | | Jan 3 - Jan 31 | 31-Jan | 5.5" | 6.5" | | | X | | | | | | | | |
| January Teardrop Dustfall | | | Jan 3 - Jan 31 | 31-Jan | 5.5" | 6.5" | | | X | | | | | | | | |
| January Bell Towers Dustfall | | | Jan 3 - Jan 31 | 31-Jan | 5.5" | 6.5" | | | X | | | | | | | | |
| Hi Vol Quartz 220101762 Bell Towers TSP Dec 25 | | | 25-Dec | 3-Jan | | | | | | X | X | X | | | | | |
| Hi Vol Quartz 22101761 Bell Towers TSP Jan 6 | | | 6-Jan | 9-Jan | | | | | | X | X | X | | | | | |
| Hi Vol Quartz 22111431 Bell Towers TSP Jan 12 | | | 12-Jan | 13-Jan | | | | | | X | X | X | | | | | |
| Hi Vol Quartz 22111430 Bell Towers TSP Jan 18 | | | 18-Jan | 19-Jan | | | | | | X | X | X | | | | | |
| Hi Vol Quartz 22120838 Bell Towers TSP Jan 24 | | | 24-Jan | 24-Jan | | | | | | X | X | X | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***

*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com***

Client Signature:
Affiliation:
Date/Time:

Received by: [illegible]
Affiliation:
Date/Time: 2023/02/09 09:23

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at*

Your P.O. #: C026300307
Your Project #: OMGS21045.15000.***
Your C.O.C. #: NA

**Attention: Kinross Project**

AMEC Foster Wheeler Environment & Infrastructure
160 Traders Blvd
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2022/08/19**
Report #: R7260174
Version: 2 - Revision

# CERTIFICATE OF ANALYSIS – REVISED REPORT

**BUREAU VERITAS JOB #: C2L0740**
**Received: 2022/07/27, 10:35**

Sample Matrix: Filter
# Samples Received: 4

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Particulate Calculation | 4 | N/A | 2022/08/19 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate | 4 | N/A | 2022/08/02 | BRL SOP-00109 | Mthd IO-3-1 |
| Subcontracting from AT-AMB to BV Novi (1) | 4 | N/A | N/A | | Subcontracting |
| Air Volume from LoVol Sampling | 4 | N/A | 2022/07/28 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas (Novi), 22345 Roethal Dr. , Novi, MI, 48375

Your P.O. #: C026300307
Your Project #: OMGS21045.15000.***
Your C.O.C. #: NA

**Attention: Kinross Project**

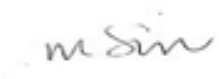
AMEC Foster Wheeler Environment & Infrastructure
160 Traders Blvd
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2022/08/19**
Report #: R7260174
Version: 2 - Revision

# CERTIFICATE OF ANALYSIS – REVISED REPORT

**BUREAU VERITAS JOB #: C2L0740**
**Received: 2022/07/27, 10:35**

Encryption Key



Marinela Sim
Project Manager
23 Aug 2022 15:00:29

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Marinela Sim, Project Manager
Email: Marinela.Sim@bureauveritas.com
Phone# (905)817-5828
==========
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports.
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Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2L0740
Report Date: 2022/08/19

AMEC Foster Wheeler Environment & Infrastructure
Client Project #: OMGS21045.15000.***
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| **Bureau Veritas ID** | | THC900 | THC902 | THC903 | THC905 | | |
|---|---|---|---|---|---|---|---|
| **Sampling Date** | | 2022/06/29 11:30 | 2022/07/04 11:30 | 2022/07/10 14:20 | 2022/07/16 13:00 | | |
| **COC Number** | | NA | NA | NA | NA | | |
| | **UNITS** | **M_22061601 TEARDROP JUNE 29 PM 10** | **M_22061604 TEARDROP JULY 4 PM 10** | **M_22061602 JULY 10 PM 10** | **M_22061603 JULY 16 PM 10** | **RDL** | **QC Batch** |
| | | | | | | | |
| Particulate | ug/m3 | 13.5 | 8.7 | 13.9 | 18.3 | 1.2 | 8174166 |
| Particulate Weight on Filter | ug | 325 | 209 | 335 | 440 | 30 | 8175842 |
| Volume | m3 | 24.05 | 24.05 | 24.05 | 24.05 | N/A | ONSITE |
| **Subcontracted Analysis** | | | | | | | |
| Subcontract Parameter | N/A | ATTACHED | ATTACHED | ATTACHED | ATTACHED | N/A | 8170887 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Bureau Veritas Job #: C2L0740
Report Date: 2022/08/19

AMEC Foster Wheeler Environment & Infrastructure
Client Project #: OMGS21045.15000.***
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** THC900
**Sample ID:** M_22061601 TEARDROP JUNE 29 PM 10
**Matrix:** Filter

**Collected:** 2022/06/29
**Shipped:**
**Received:** 2022/07/27

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8174166 | N/A | 2022/08/19 | Automated Statchk |
| Total Particulate | BAL | 8175842 | N/A | 2022/08/02 | Nancy Dhir |
| Subcontracting from AT-AMB to BV Novi | | 8170887 | N/A | | Marinela Sim |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2022/07/28 | Prabhdeep Kaur |

**Bureau Veritas ID:** THC902
**Sample ID:** M_22061604 TEARDROP JULY 4 PM 10
**Matrix:** Filter

**Collected:** 2022/07/04
**Shipped:**
**Received:** 2022/07/27

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8174166 | N/A | 2022/08/19 | Automated Statchk |
| Total Particulate | BAL | 8175842 | N/A | 2022/08/02 | Nancy Dhir |
| Subcontracting from AT-AMB to BV Novi | | 8170887 | N/A | | Marinela Sim |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2022/07/28 | Prabhdeep Kaur |

**Bureau Veritas ID:** THC903
**Sample ID:** M_22061602 JULY 10 PM 10
**Matrix:** Filter

**Collected:** 2022/07/10
**Shipped:**
**Received:** 2022/07/27

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8174166 | N/A | 2022/08/19 | Automated Statchk |
| Total Particulate | BAL | 8175842 | N/A | 2022/08/02 | Nancy Dhir |
| Subcontracting from AT-AMB to BV Novi | | 8170887 | N/A | | Marinela Sim |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2022/07/28 | Prabhdeep Kaur |

**Bureau Veritas ID:** THC905
**Sample ID:** M_22061603 JULY 16 PM 10
**Matrix:** Filter

**Collected:** 2022/07/16
**Shipped:**
**Received:** 2022/07/27

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8174166 | N/A | 2022/08/19 | Automated Statchk |
| Total Particulate | BAL | 8175842 | N/A | 2022/08/02 | Nancy Dhir |
| Subcontracting from AT-AMB to BV Novi | | 8170887 | N/A | | Marinela Sim |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2022/07/28 | Prabhdeep Kaur |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

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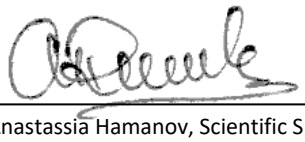
Bureau Veritas Job #: C2L0740
Report Date: 2022/08/19

AMEC Foster Wheeler Environment & Infrastructure
Client Project #: OMGS21045.15000.***
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

Marinela Sim, Project Manager

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

CAM FCD-01302 /3

BUREAU VERITAS

6740 Campobello Rd
Mississauga Ontario ,L5N 2L8
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM + CR

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | PM10 | Silica |
|---|---|---|---|---|---|---|
| M_22061601 Teardrop June 29 PM 10 | 24.05 ($m^3$) | 16.7 (l/m) | 29-Jun | 11:30 | X | X |
| M_22061604 Teardrop July 4 PM 10 | 24.05 ($m^3$) | 16.7 (l/m) | 4-Jul | 11:30 | X | X |
| M_22061602 July 10 PM 10 | 24.05 ($m^3$) | 16.7 (l/m) | 10-Jul | 14:20 | X | X |
| M_22061603 July 16 PM 10 | 24.05 ($m^3$) | 16.7 (l/m) | 16-Jul | 13:00 | X | X |

27-Jul-22 10:35
Nazeema Rahaman
C2L0740
MUM AIR-RmTmp

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com***

Client Signature:
Affiliation:
Date/Time:

Received by: Ashley Lichman
Affiliation: RSH-TIDA SUBLIMAN
Date/Time: 2022/07/27 10:35

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions*

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2022/09/28**
Report #: R7320340
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C2Q3397**
**Received: 2022/09/13, 16:20**

Sample Matrix: Filter
# Samples Received: 7

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Total Particulate | 6 | N/A | 2022/09/19 | BRL SOP-00109 | Method IO-3.1 |
| Particulate Calculation | 5 | N/A | 2022/09/21 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate | 1 | N/A | 2022/09/19 | BRL SOP-00109 | Mthd IO-3-1 |
| Subcontracting from AT-AMB to BV Novi (1) | 7 | N/A | N/A | | Subcontracting |
| Air Volume from LoVol Sampling | 5 | N/A | 2022/09/14 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas (Novi), 22345 Roethal Dr. , Novi, MI, 48375

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2022/09/28**
Report #: R7320340
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C2Q3397**
**Received: 2022/09/13, 16:20**

Encryption Key

Marinela Sim
Project Manager
29 Sep 2022 11:06:38

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Marinela Sim, Project Manager
Email: Marinela.Sim@bureauveritas.com
Phone# (905)817-5828
==========
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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2Q3397
Report Date: 2022/09/28

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | TSL114 | TSL115 | TSL116 | TSL117 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | | | | | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | 22061605 TEARDROP PM 10 JULY 18-23 | 22051202 TEARDROP PM 10 JULY 28 | 22051203 TEARDROP PM 10 AUGUST 3 | 22051204 TEARDROP PM 10 AUGUST 9 | RDL | QC Batch |
| Particulate | ug/m3 | 7.3 | <1.2 | N/A | N/A | 1.2 | 8222977 |
| Particulate Weight on Filter | mg | N/A | <0.3 (1) | <0.3 (2) | <0.3 (2) | 0.3 | 8239912 |
| Particulate Weight on Filter | ug | 177 | N/A | N/A | N/A | 30 | 8237287 |
| Volume | m3 | 24.05 | 24.05 | N/A | N/A | N/A | ONSITE |
| **Subcontracted Analysis** | | | | | | | |
| Subcontract Parameter | N/A | ATTACHED | NA | NA | NA | N/A | 8253330 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) Negative weight observed as filter is found to be torn and frayed edges.
(2) Negative weight observed as edges of filter found to be frayed

| Bureau Veritas ID | | TSL118 | TSL119 | TSL120 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | | | | | |
| COC Number | | n/a | n/a | n/a | | |
| | UNITS | 22051205 TEARDROP PM 10 AUGUST 18 | 22051206 TEARDROP PM 10 AUGUST 21 | 22051211 TEARDROP PM 10 AUGUST 27 | RDL | QC Batch |
| Particulate | ug/m3 | <1.2 | <1.2 | <1.2 | 1.2 | 8222977 |
| Particulate Weight on Filter | mg | <0.3 (1) | <0.3 (2) | <0.3 (1) | 0.3 | 8239912 |
| Volume | m3 | 24.05 | 24.05 | 24.05 | N/A | ONSITE |
| **Subcontracted Analysis** | | | | | | |
| Subcontract Parameter | N/A | NA | NA | NA | N/A | 8253330 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) Negative weight observed as edges of filter found to be frayed
(2) Negative weight observed as edges of filter found to be frayed and torn



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2Q3397
Report Date: 2022/09/28

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** TSL114
**Sample ID:** 22061605 TEARDROP PM 10 JULY 18-23
**Matrix:** Filter

**Collected:**
**Shipped:**
**Received:** 2022/09/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8222977 | N/A | 2022/09/21 | Automated Statchk |
| Total Particulate | BAL | 8237287 | N/A | 2022/09/19 | Nancy Dhir |
| Subcontracting from AT-AMB to BV Novi | | 8253330 | N/A | | Marinela Sim |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2022/09/14 | Prabhdeep Kaur |

**Bureau Veritas ID:** TSL115
**Sample ID:** 22051202 TEARDROP PM 10 JULY 28
**Matrix:** Filter

**Collected:**
**Shipped:**
**Received:** 2022/09/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Total Particulate | BAL | 8239912 | N/A | 2022/09/19 | Nancy Dhir |
| Particulate Calculation | CALC | 8222977 | N/A | 2022/09/21 | Automated Statchk |
| Subcontracting from AT-AMB to BV Novi | | 8253330 | N/A | | Marinela Sim |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2022/09/14 | Prabhdeep Kaur |

**Bureau Veritas ID:** TSL116
**Sample ID:** 22051203 TEARDROP PM 10 AUGUST 3
**Matrix:** Filter

**Collected:**
**Shipped:**
**Received:** 2022/09/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Total Particulate | BAL | 8239912 | N/A | 2022/09/19 | Nancy Dhir |
| Subcontracting from AT-AMB to BV Novi | | 8253330 | N/A | | Marinela Sim |

**Bureau Veritas ID:** TSL117
**Sample ID:** 22051204 TEARDROP PM 10 AUGUST 9
**Matrix:** Filter

**Collected:**
**Shipped:**
**Received:** 2022/09/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Total Particulate | BAL | 8239912 | N/A | 2022/09/19 | Nancy Dhir |
| Subcontracting from AT-AMB to BV Novi | | 8253330 | N/A | | Marinela Sim |

**Bureau Veritas ID:** TSL118
**Sample ID:** 22051205 TEARDROP PM 10 AUGUST 18
**Matrix:** Filter

**Collected:**
**Shipped:**
**Received:** 2022/09/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Total Particulate | BAL | 8239912 | N/A | 2022/09/19 | Nancy Dhir |
| Particulate Calculation | CALC | 8222977 | N/A | 2022/09/21 | Automated Statchk |
| Subcontracting from AT-AMB to BV Novi | | 8253330 | N/A | | Marinela Sim |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2022/09/14 | Prabhdeep Kaur |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2Q3397
Report Date: 2022/09/28

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** TSL119
**Sample ID:** 22051206 TEARDROP PM 10 AUGUST 21
**Matrix:** Filter

**Collected:**
**Shipped:**
**Received:** 2022/09/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Total Particulate | BAL | 8239912 | N/A | 2022/09/19 | Nancy Dhir |
| Particulate Calculation | CALC | 8222977 | N/A | 2022/09/21 | Automated Statchk |
| Subcontracting from AT-AMB to BV Novi | | 8253330 | N/A | | Marinela Sim |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2022/09/14 | Prabhdeep Kaur |

**Bureau Veritas ID:** TSL120
**Sample ID:** 22051211 TEARDROP PM 10 AUGUST 27
**Matrix:** Filter

**Collected:**
**Shipped:**
**Received:** 2022/09/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Total Particulate | BAL | 8239912 | N/A | 2022/09/19 | Nancy Dhir |
| Particulate Calculation | CALC | 8222977 | N/A | 2022/09/21 | Automated Statchk |
| Subcontracting from AT-AMB to BV Novi | | 8253330 | N/A | | Marinela Sim |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2022/09/14 | Prabhdeep Kaur |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

| | |
|---|---|
| Package 1 | 21.0°C |

**Results relate only to the items tested.**



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Bureau Veritas Job #: C2Q3397
Report Date: 2022/09/28

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere, Senior Scientific Specialist

Marinela Sim, Project Manager

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Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

# AIR

CAM FCD-01302 /3

BUREAU VERITAS
6740 Campobello Rd
Mississauga Ontario ,L5N 2L8
www.bvlabs.com
Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

## CHAIN OF CUSTODY FORM - AIR

Page ____ of ____

**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM + CR

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening (Inner Diameter) | Dust Fall Opening (Outer Diameter) | Silica | PM 10 | Dustfall | $NO_2$ | $SO_2$ | VOC | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| August Dustfall Teardrop | | | Aug 1 - Sep 1 | 1-Sep | 5.5" | 6.5" | | | X | | | | | | | |
| 22061605 Teardrop PM 10 July 18 - 23 | 24.05 | 16.7 | 23-Jul | 23-Jul | | | X | X | | | | | | | | |
| 22051202 Teardrop PM 10 July 28 | 24.05 | 16.7 | 28-Jul | 28-Jul | | | X | X | | | | | | | | |
| 22051203 Teardrop PM 10 August 3 | 0 | 10.4 | 3-Aug | 3-Aug | | | X | X | | | | | | | | |
| 22051204 Teardrop PM 10 August 9 | 0 | 10.4 | 9-Aug | 9-Aug | | | X | X | | | | | | | | |
| 22051205 Teardrop PM 10 August 18 | 24.05 | 16.7 | 18-Aug | 18-Aug | | | X | X | | | | | | | | |
| 22051206 Teardrop PM 10 August 21 | 24.05 | 16.7 | 21-Aug | 25-Aug | | | X | X | | | | | | | | |
| 22051211 Teardrop PM 10 August 27 | 24.05 | 16.7 | 27-Aug | 29-Aug | | | X | X | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

13-Sep-22 16:20
Gina Baybayan
C2Q3397
JDK Room Temp

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com***

Client Signature:
Affiliation:
Date/Time:

Received by:
Affiliation:
Date/Time: Sept 9/13 1620 11/11/11

Noise

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at*

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2022/09/28**
Report #: R7320340
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C2Q3397**
**Received: 2022/09/13, 16:20**

Sample Matrix: Filter
# Samples Received: 7

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Total Particulate | 6 | N/A | 2022/09/19 | BRL SOP-00109 | Method IO-3.1 |
| Particulate Calculation | 5 | N/A | 2022/09/21 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate | 1 | N/A | 2022/09/19 | BRL SOP-00109 | Mthd IO-3-1 |
| Subcontracting from AT-AMB to BV Novi (1) | 7 | N/A | N/A | | Subcontracting |
| Air Volume from LoVol Sampling | 5 | N/A | 2022/09/14 | | |

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.
(1) This test was performed by Bureau Veritas (Novi), 22345 Roethal Dr. , Novi, MI, 48375

Encryption Key

Marinela Sim
Project Manager
29 Sep 2022 11:06:40

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Marinela Sim, Project Manager
Email: Marinela.Sim@bureauveritas.com
Phone# (905)817-5828

==========

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2Q3397
Report Date: 2022/09/28

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | TSL114 | | | TSL115 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | | | | | | |
| COC Number | | n/a | | | n/a | | |
| | UNITS | 22061605 TEARDROP PM 10 JULY 18-23 | RDL | QC Batch | 22051202 TEARDROP PM 10 JULY 28 | RDL | QC Batch |
| Particulate | ug/m3 | 7.3 | 1.2 | 8222977 | <1.2 | 1.2 | 8222977 |
| Particulate Weight on Filter | mg | | | | <0.3 (1) | 0.3 | 8239912 |
| Particulate Weight on Filter | ug | 177 | 30 | 8237287 | | | |
| Volume | m3 | 24.05 | N/A | ONSITE | 24.05 | N/A | ONSITE |
| **Subcontracted Analysis** | | | | | | | |
| Subcontract Parameter | N/A | ATTACHED | N/A | 8253330 | NA | N/A | 8253330 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) Negative weight observed as filter is found to be torn and frayed edges.

| Bureau Veritas ID | | TSL116 | TSL117 | | | TSL118 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | | | | | | | |
| COC Number | | n/a | n/a | | | n/a | | |
| | UNITS | 22051203 TEARDROP PM 10 AUGUST 3 | 22051204 TEARDROP PM 10 AUGUST 9 | RDL | QC Batch | 22051205 TEARDROP PM 10 AUGUST 18 | RDL | QC Batch |
| Particulate | ug/m3 | | | | | <1.2 | 1.2 | 8222977 |
| Particulate Weight on Filter | mg | <0.3 (1) | <0.3 (1) | 0.3 | 8239912 | <0.3 (1) | 0.3 | 8239912 |
| Volume | m3 | | | | | 24.05 | N/A | ONSITE |
| **Subcontracted Analysis** | | | | | | | | |
| Subcontract Parameter | N/A | NA | NA | N/A | 8253330 | NA | N/A | 8253330 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) Negative weight observed as edges of filter found to be frayed



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2Q3397
Report Date: 2022/09/28

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| **Bureau Veritas ID** | | TSL119 | TSL120 | | |
|---|---|---|---|---|---|
| **Sampling Date** | | | | | |
| **COC Number** | | n/a | n/a | | |
| | **UNITS** | **22051206 TEARDROP PM 10 AUGUST 21** | **22051211 TEARDROP PM 10 AUGUST 27** | **RDL** | **QC Batch** |
| | | | | | |
| Particulate | ug/m3 | <1.2 | <1.2 | 1.2 | 8222977 |
| Particulate Weight on Filter | mg | <0.3 (1) | <0.3 (2) | 0.3 | 8239912 |
| Volume | m3 | 24.05 | 24.05 | N/A | ONSITE |
| **Subcontracted Analysis** | | | | | |
| Subcontract Parameter | N/A | NA | NA | N/A | 8253330 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) Negative weight observed as edges of filter found to be frayed and torn
(2) Negative weight observed as edges of filter found to be frayed



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2Q3397
Report Date: 2022/09/28

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere, Senior Scientific Specialist

Marinela Sim, Project Manager

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2022/11/07**
Report #: R7377852
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C2T3229**
**Received: 2022/10/07, 09:32**

Sample Matrix: Filter
# Samples Received: 5

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Particulate Calculation | 5 | N/A | 2022/10/27 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate | 5 | N/A | 2022/10/26 | BRL SOP-00109 | Mthd IO-3-1 |
| Subcontracting from AT-AMB to BV Novi (1) | 5 | N/A | N/A | | Subcontracting |
| Air Volume from LoVol Sampling | 5 | N/A | 2022/10/21 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas (Novi), 22345 Roethal Dr. , Novi, MI, 48375

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2022/11/07**
Report #: R7377852
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C2T3229**
**Received: 2022/10/07, 09:32**

Encryption Key

Marinela Sim
Project Manager
08 Nov 2022 17:09:46

Please direct all questions regarding this Certificate of Analysis to:
Marinela Sim, Project Manager
Email: Marinela.Sim@bureauveritas.com
Phone# (905)817-5828

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Bureau Veritas Job #: C2T3229
Report Date: 2022/11/07

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | TYQ809 | TYQ810 | TYQ811 | TYQ812 | TYQ813 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2022/09/02 13:30 | 2022/09/08 09:00 | 2022/09/14 14:00 | 2022/09/20 10:30 | 2022/09/26 11:00 | | |
| COC Number | | n/a | n/a | n/a | n/a | n/a | | |
| | **UNITS** | **22080201** | **22080202** | **22080203** | **22080204** | **22080205** | **RDL** | **QC Batch** |
| | | | | | | | | |
| Particulate | ug/m3 | 8.3 | 4.2 | 9.0 | 4.0 | 4.6 | 1.2 | 8298395 |
| Particulate Weight on Filter | ug | 199 | 100 | 216 | 97 | 111 | 30 | 8309477 |
| Volume | m3 | 24.05 | 24.05 | 24.05 | 24.05 | 24.05 | N/A | ONSITE |
| **Subcontracted Analysis** | | | | | | | | |
| Subcontract Parameter | N/A | ATTACHED | ATTACHED | ATTACHED | ATTACHED | ATTACHED | N/A | 8331421 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Bureau Veritas Job #: C2T3229
Report Date: 2022/11/07

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** TYQ809
**Sample ID:** 22080201
**Matrix:** Filter

**Collected:** 2022/09/02
**Shipped:**
**Received:** 2022/10/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8298395 | N/A | 2022/10/27 | Automated Statchk |
| Total Particulate | BAL | 8309477 | N/A | 2022/10/26 | Nancy Dhir |
| Subcontracting from AT-AMB to BV Novi | | 8331421 | N/A | | Marinela Sim |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2022/10/21 | Prabhdeep Kaur |

**Bureau Veritas ID:** TYQ810
**Sample ID:** 22080202
**Matrix:** Filter

**Collected:** 2022/09/08
**Shipped:**
**Received:** 2022/10/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8298395 | N/A | 2022/10/27 | Automated Statchk |
| Total Particulate | BAL | 8309477 | N/A | 2022/10/26 | Nancy Dhir |
| Subcontracting from AT-AMB to BV Novi | | 8331421 | N/A | | Marinela Sim |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2022/10/21 | Prabhdeep Kaur |

**Bureau Veritas ID:** TYQ811
**Sample ID:** 22080203
**Matrix:** Filter

**Collected:** 2022/09/14
**Shipped:**
**Received:** 2022/10/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8298395 | N/A | 2022/10/27 | Automated Statchk |
| Total Particulate | BAL | 8309477 | N/A | 2022/10/26 | Nancy Dhir |
| Subcontracting from AT-AMB to BV Novi | | 8331421 | N/A | | Marinela Sim |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2022/10/21 | Prabhdeep Kaur |

**Bureau Veritas ID:** TYQ812
**Sample ID:** 22080204
**Matrix:** Filter

**Collected:** 2022/09/20
**Shipped:**
**Received:** 2022/10/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8298395 | N/A | 2022/10/27 | Automated Statchk |
| Total Particulate | BAL | 8309477 | N/A | 2022/10/26 | Nancy Dhir |
| Subcontracting from AT-AMB to BV Novi | | 8331421 | N/A | | Marinela Sim |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2022/10/21 | Prabhdeep Kaur |

**Bureau Veritas ID:** TYQ813
**Sample ID:** 22080205
**Matrix:** Filter

**Collected:** 2022/09/26
**Shipped:**
**Received:** 2022/10/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8298395 | N/A | 2022/10/27 | Automated Statchk |
| Total Particulate | BAL | 8309477 | N/A | 2022/10/26 | Nancy Dhir |
| Subcontracting from AT-AMB to BV Novi | | 8331421 | N/A | | Marinela Sim |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2022/10/21 | Prabhdeep Kaur |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



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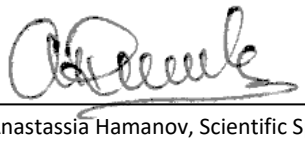
Bureau Veritas Job #: C2T3229
Report Date: 2022/11/07

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

Marinela Sim, Project Manager

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## Internal Sample Receipt Form

| | Sample Identification | Date Sampled | Time Sampled | Matrix | # of Bottles | Comments |
|---|---|---|---|---|---|---|
| 1 | 22080201 | Sept 02 | – | Filter | 1 | |
| 2 | 22080202 | Sept 26 | – | | | |
| 3 | 22080203 | Sept 8 | – | | | Tear drop PM10 |
| 4 | 22080204 | Sept 14 | – | | | |
| 5 | 22080205 | Sept 20 | – | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |

07-Oct-22 09:32
Cristina (Maria) Bacchus
C2T3229
KTN AIR-RmTmp

| Received by (Signature & Print): | Date | Time | Cooler ID | Temperature | Custody seal Present | | Custody Seal Intact | | Ice Present | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | YES | NO | YES | NO | YES | NO |
| 2 VITRINA | 2022/10/07 | 09:32 | | | | / | | / | | / |
| | | | | | | | | | | |

CAM FCD-01302 /3

6740 Campobello Rd
Mississauga Ontario ,L5N 2L8
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening Inner Diameter | Dust Fall Opening Outer Diameter | Silica | PM 10 | Dustfall | TSP | Mercury | Metals | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| September Dustfall - Teardrop | | | Sep 1 - Sep 30 | 30-Sep | | | | | X | | | | | | | | |
| M_22080201 Teardrop PM 10 Sept 2 | 24.05 (m³) | 16.7 (l/m) | 02-Sep | 13:30 | | | X | X | | | | | | | | | |
| M_22080203 Teardrop PM 10 Sept 8 | 24.05 (m³) | 16.7 (l/m) | 08-Sep | 9:00 | | | X | X | | | | | | | | | |
| M_22080204 Teardrop PM 10 Sept 14 | 24.05 (m³) | 16.7 (l/m) | 14-Sep | 14:00 | | | X | X | | | | | | | | | |
| M_22080205 Teardrop PM 10 Sept 20 | 24.05 (m³) | 16.7 (l/m) | 20-Sep | 10:30 | | | X | X | | | | | | | | | |
| M_22080202 Teardrop PM 10 Sept 26 | 24.05 (m³) | 16.7 (l/m) | 26-Sep | 11:00 | | | X | X | | | | | | | | | |
| Hi Vol Quartz 22081284 Bell Tower TSP Sep 20 | | | 20-Sep | 13:55 | | | | | | X | X | X | | | | | |
| Hi Vol Quartz 22081289 Bell Tower TSP Sep 26 | | | 26-Sep | 11:35 | | | | | | X | X | X | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com***

Client Signature:
Affiliation:
Date/Time:

Received by:
Affiliation:
Date/Time:

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions*

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/04/24**
Report #: R7600013
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3A3230**
**Received: 2023/04/13, 09:13**

Sample Matrix: Filter
# Samples Received: 13

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Particulate Calculation | 13 | N/A | 2023/04/24 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate | 13 | N/A | 2023/04/19 | BRL SOP-00109 | Mthd IO-3-1 |
| Air Volume from LoVol Sampling | 13 | N/A | 2023/04/13 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/04/24**
Report #: R7600013
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3A3230**
**Received: 2023/04/13, 09:13**

Encryption Key

Cristina (Maria) Bacchus
Project Manager
24 Apr 2023 19:32:09

Please direct all questions regarding this Certificate of Analysis to:
Marinela Sim, Project Manager
Email: Marinela.Sim@bureauveritas.com
Phone# (905)817-5828

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C3A3230
Report Date: 2023/04/24

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | VNQ814 | VNQ815 | | VNQ816 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/01/06 | 2023/01/28 | | 2023/01/31 | | |
| COC Number | | n/a | n/a | | n/a | | |
| | UNITS | 1419264 TEARDROP PM 2.5 JANUARY 6 | 1419265 TEARDROP PM 2.5 JANUARY 28 | RDL | 20204311TEARDROP PM 2.5 JANUARY 31 | RDL | QC Batch |
| Particulate | ug/m3 | 1.6 | 5.3 | 1.2 | 7.4 | 1.3 | 8606958 |
| Particulate Weight on Filter | ug | 38 | 128 | 30 | 178 | 30 | 8624505 |
| Volume | m3 | 24.05 | 24.05 | N/A | 24.00 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

| Bureau Veritas ID | | VNQ817 | VNQ818 | VNQ819 | | VNQ820 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/02/15 | 2023/02/17 | 2022/12/25 | | 2023/01/12 | | |
| COC Number | | n/a | n/a | n/a | | n/a | | |
| | UNITS | 1415679 TEARDROP PM 2.5 FEBRUARY 15 | 1415677 TEARDROP PM 2.5 FEBRUARY 17 | 1419270 TEARDROP PM 2.5 DECEMBER 25 | RDL | 1419266 TEARDROP PM 2.5 JANUARY 12 | RDL | QC Batch |
| Particulate | ug/m3 | 2.8 | 4.9 | 4.2 | 1.2 | <1000 | 1000 | 8606958 |
| Particulate Weight on Filter | ug | 68 | 118 | 101 | 30 | <30 | 30 | 8624505 |
| Volume | m3 | 24.05 | 24.05 | 24.03 | N/A | 0.03000 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

| Bureau Veritas ID | | VNQ821 | VNQ822 | VNQ823 | VNQ825 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/01/31 | 2023/01/28 | 2023/02/15 | 2023/02/07 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | 20204310 TEARDROP PM 2.5 JANUARY 31 | 1419263 TEARDROP PM 2.5 JANUARY 28 | 1415678 TEARDROP PM 2.5 FEBRUARY 15 | 1419272 TEARDROP PM 2.5 FEBRUARY 7 | RDL | QC Batch |
| Particulate | ug/m3 | 4.4 | 4.0 | 2.7 | 3.7 | 1.2 | 8606958 |
| Particulate Weight on Filter | ug | 107 | 97 | 64 | 88 | 30 | 8624505 |
| Volume | m3 | 24.03 | 24.02 | 24.03 | 24.03 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3A3230
Report Date: 2023/04/24

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| **Bureau Veritas ID** | | VNQ826 | VNQ827 | | |
|---|---|---|---|---|---|
| **Sampling Date** | | 2023/02/09 | 2023/02/14 | | |
| **COC Number** | | n/a | n/a | | |
| | **UNITS** | **1415673 TEARDROP PM 2.5 FEBRUARY 9** | **1415680 TEARDROP PM 2.5 FEBRUARY 14** | **RDL** | **QC Batch** |
| | | | | | |
| Particulate | ug/m3 | 2.4 | <1.2 | 1.2 | 8606958 |
| Particulate Weight on Filter | ug | 58 | <30 | 30 | 8624505 |
| Volume | m3 | 24.03 | 24.02 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## TEST SUMMARY

**Bureau Veritas ID:** VNQ814 **Collected:** 2023/01/06
**Sample ID:** 1419264 TEARDROP PM 2.5 JANUARY 6 **Shipped:**
**Matrix:** Filter **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8606958 | N/A | 2023/04/24 | Automated Statchk |
| Total Particulate | BAL | 8624505 | N/A | 2023/04/19 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/04/13 | Prabhdeep Kaur |

**Bureau Veritas ID:** VNQ815 **Collected:** 2023/01/28
**Sample ID:** 1419265 TEARDROP PM 2.5 JANUARY 28 **Shipped:**
**Matrix:** Filter **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8606958 | N/A | 2023/04/24 | Automated Statchk |
| Total Particulate | BAL | 8624505 | N/A | 2023/04/19 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/04/13 | Prabhdeep Kaur |

**Bureau Veritas ID:** VNQ816 **Collected:** 2023/01/31
**Sample ID:** 20204311TEARDROP PM 2.5 JANUARY 31 **Shipped:**
**Matrix:** Filter **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8606958 | N/A | 2023/04/24 | Automated Statchk |
| Total Particulate | BAL | 8624505 | N/A | 2023/04/19 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/04/13 | Prabhdeep Kaur |

**Bureau Veritas ID:** VNQ817 **Collected:** 2023/02/15
**Sample ID:** 1415679 TEARDROP PM 2.5 FEBRUARY 15 **Shipped:**
**Matrix:** Filter **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8606958 | N/A | 2023/04/24 | Automated Statchk |
| Total Particulate | BAL | 8624505 | N/A | 2023/04/19 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/04/13 | Prabhdeep Kaur |

**Bureau Veritas ID:** VNQ818 **Collected:** 2023/02/17
**Sample ID:** 1415677 TEARDROP PM 2.5 FEBRUARY 17 **Shipped:**
**Matrix:** Filter **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8606958 | N/A | 2023/04/24 | Automated Statchk |
| Total Particulate | BAL | 8624505 | N/A | 2023/04/19 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/04/13 | Prabhdeep Kaur |



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## TEST SUMMARY

**Bureau Veritas ID:** VNQ819 **Collected:** 2022/12/25
**Sample ID:** 1419270 TEARDROP PM 2.5 DECEMBER 25 **Shipped:**
**Matrix:** Filter **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8606958 | N/A | 2023/04/24 | Automated Statchk |
| Total Particulate | BAL | 8624505 | N/A | 2023/04/19 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/04/13 | Prabhdeep Kaur |

**Bureau Veritas ID:** VNQ820 **Collected:** 2023/01/12
**Sample ID:** 1419266 TEARDROP PM 2.5 JANUARY 12 **Shipped:**
**Matrix:** Filter **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8606958 | N/A | 2023/04/24 | Automated Statchk |
| Total Particulate | BAL | 8624505 | N/A | 2023/04/19 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/04/13 | Prabhdeep Kaur |

**Bureau Veritas ID:** VNQ821 **Collected:** 2023/01/31
**Sample ID:** 20204310 TEARDROP PM 2.5 JANUARY 31 **Shipped:**
**Matrix:** Filter **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8606958 | N/A | 2023/04/24 | Automated Statchk |
| Total Particulate | BAL | 8624505 | N/A | 2023/04/19 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/04/13 | Prabhdeep Kaur |

**Bureau Veritas ID:** VNQ822 **Collected:** 2023/01/28
**Sample ID:** 1419263 TEARDROP PM 2.5 JANUARY 28 **Shipped:**
**Matrix:** Filter **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8606958 | N/A | 2023/04/24 | Automated Statchk |
| Total Particulate | BAL | 8624505 | N/A | 2023/04/19 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/04/13 | Prabhdeep Kaur |

**Bureau Veritas ID:** VNQ823 **Collected:** 2023/02/15
**Sample ID:** 1415678 TEARDROP PM 2.5 FEBRUARY 15 **Shipped:**
**Matrix:** Filter **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8606958 | N/A | 2023/04/24 | Automated Statchk |
| Total Particulate | BAL | 8624505 | N/A | 2023/04/19 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/04/13 | Prabhdeep Kaur |



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## TEST SUMMARY

**Bureau Veritas ID:** VNQ825 **Collected:** 2023/02/07
**Sample ID:** 1419272 TEARDROP PM 2.5 FEBRUARY 7 **Shipped:**
**Matrix:** Filter **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8606958 | N/A | 2023/04/24 | Automated Statchk |
| Total Particulate | BAL | 8624505 | N/A | 2023/04/19 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/04/13 | Prabhdeep Kaur |

**Bureau Veritas ID:** VNQ826 **Collected:** 2023/02/09
**Sample ID:** 1415673 TEARDROP PM 2.5 FEBRUARY 9 **Shipped:**
**Matrix:** Filter **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8606958 | N/A | 2023/04/24 | Automated Statchk |
| Total Particulate | BAL | 8624505 | N/A | 2023/04/19 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/04/13 | Prabhdeep Kaur |

**Bureau Veritas ID:** VNQ827 **Collected:** 2023/02/14
**Sample ID:** 1415680 TEARDROP PM 2.5 FEBRUARY 14 **Shipped:**
**Matrix:** Filter **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8606958 | N/A | 2023/04/24 | Automated Statchk |
| Total Particulate | BAL | 8624505 | N/A | 2023/04/19 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/04/13 | Prabhdeep Kaur |



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3A3230
Report Date: 2023/04/24

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

CAM FCD-01302 /3

6740 Campobello Rd
Mississauga Ontario ,L5N 2L8
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM + CR

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening (Inner Diameter) | Dust Fall Opening (Outer Diameter) | Silica | PM 2.5 | Dustfall | $NO_2$ | $SO_2$ | VOC | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1419264 Teardrop PM 2.5 January 6 | 24.05 | 16.7 | Jan 6 2023 | 9-Jan | | | | X | | | | | | | | | |
| 1419265 Teardrop PM 2.5 January 28 | 24.05 | 16.7 | Jan 28 2023 | 30-Jan | | | | X | | | | | | | | | |
| 20204311 Teardrop PM 2.5 January 31 | 24 | 16.7 | Jan 31 2023 | 1-Feb | | | | X | | | | | | | | | |
| 1415679 Teardrop PM 2.5 February 15 | 24.05 | 16.7 | Feb 13 2023 | 16-Feb | | | | X | | | | | | | | | |
| 1415677 Teardrop PM 2.5 February 17 | 24.05 | 16.7 | Feb 17 2023 | 20-Feb | | | | X | | | | | | | | | |
| 1419270 Tote PM 2.5 December 25 | 24.03 | 16.7 | Dec 25 2022 | 3-Jan | | | | X | | | | | | | | | |
| 1419266 Tote PM 2.5 January 12 | 0.03 | 10.4 | Jan 12 2023 | 13-Jan | | | | X | | | | | | | | | |
| 20204310 Tote PM 2.5 January 31 | 24.03 | 16.7 | Jan 31 2023 | 1-Feb | | | | X | | | | | | | | | |
| 1419263 Tote PM 2.5 January 28 | 24.02 | 16.7 | Jan 28 2023 | 30-Jan | | | | X | | | | | | | | | |
| 1415678 Tote PM 2.5 February 15 | 24.03 | 16.7 | Feb 15 2023 | 16-Feb | | | | X | | | | | | | | | |
| 1419272 Tote PM 2.5 February 7 | 24.03 | 16.7 | Feb 7 2023 | 8-Feb | | | | X | | | | | | | | | |
| 1415673 Tote PM 2.5 February 9 | 24.03 | 16.7 | Feb 9 2023 | 10-Feb | | | | X | | | | | | | | | |
| 1415680 Tote PM 2.5 February 14 | 24.02 | 16.7 | Feb 14 2023 | 15-Feb | | | | X | | | | | | | | | |

13-Apr-23 09:13
Gina Baybayan
C3A3230
RPK AIR-RmTmp

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com; emily.meek@kinross.com***

Client Signature:
Affiliation:
Date/Time:

Received by: Lee Pope | Ashley Sukkumar
Affiliation: ASHLEY SUKKUMAR
Date/Time: 2023/04/13 09:13

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at*

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: na

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/11/15**
Report #: R7913264
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3Y9846**
**Received: 2023/11/08, 09:34**

Sample Matrix: Filter
# Samples Received: 6

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Particulate Calculation | 6 | N/A | 2023/11/15 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate | 6 | N/A | 2023/11/14 | BRL SOP-00109 | Mthd IO-3-1 |
| Air Volume from LoVol Sampling | 6 | N/A | 2023/11/08 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCCFP, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: na

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/11/15**
Report #: R7913264
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3Y9846**
**Received: 2023/11/08, 09:34**

Encryption Key

Cristina (Maria) Bacchus
Project Manager
15 Nov 2023 17:37:08

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C3Y9846
Report Date: 2023/11/15

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: CB

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | XNQ653 | XNQ654 | XNQ655 | XNQ656 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/09/27 | 2023/10/03 | 2023/10/09 | 2023/10/15 | | |
| COC Number | | na | na | na | na | | |
| | UNITS | TOTE PM2.5 SEP27 W23758093 | TOTE PM2.5 OCT3 W23758094 | TOTE PM2.5 OCT9 W23758097 | TOTE PM2.5 OCT15 WC1563542 | RDL | QC Batch |
| Particulate | ug/m3 | 9.4 | 9.7 | 3.4 | 3.5 | 1.2 | 9037074 |
| Particulate Weight on Filter | ug | 226 | 233 | 81 | 84 | 30 | 9050145 |
| Volume | m3 | 24.02 | 24.02 | 24.02 | 24.03 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

| Bureau Veritas ID | | XNQ657 | XNQ658 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2023/10/21 | 2023/10/27 | | |
| COC Number | | na | na | | |
| | UNITS | TOTE PM2.5 OCT21 WC1563538 | TOTE PM2.5 OCT27 WC1563544 | RDL | QC Batch |
| Particulate | ug/m3 | 2.5 | 1.8 | 1.2 | 9037074 |
| Particulate Weight on Filter | ug | 61 | 44 | 30 | 9050145 |
| Volume | m3 | 24.02 | 24.03 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3Y9846
Report Date: 2023/11/15

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: CB

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

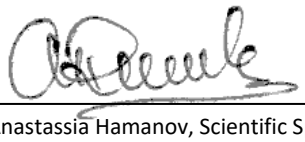
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3Y9846
Report Date: 2023/11/15

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: CB

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: na

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/11/21**
Report #: R7922097
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3Y9874**
**Received: 2023/11/08, 09:34**

Sample Matrix: Filter
# Samples Received: 6

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | 6 | N/A | 2023/11/15 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate (PM10) | 6 | N/A | 2023/11/14 | BRL SOP-00109 | Mthd IO-3-1 |
| Subcontracting from AT-AMB to BV Novi (1) | 1 | N/A | N/A | | Subcontracting |
| Air Volume from LoVol Sampling | 6 | N/A | 2023/11/08 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCCFP, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

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Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas (Novi), 22345 Roethal Dr. , Novi, MI, 48375

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: na

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/11/21**
Report #: R7922097
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3Y9874**
**Received: 2023/11/08, 09:34**

Encryption Key

Cristina (Maria) Bacchus
Project Manager
21 Nov 2023 19:48:15

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3Y9874
Report Date: 2023/11/21

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: CB

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | XNQ863 | XNQ864 | XNQ865 | XNQ866 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/09/27 | 2023/10/03 | 2023/10/09 | 2023/10/15 | | |
| COC Number | | na | na | na | na | | |
| | UNITS | TEARDROP PM10 SEP27 W23758089 | TEARDROP 47MM PVC OCT3 23032012 | TEARDROP PM10 OCT9 W23758086 | TEARDROP PM10 OCT15 WC1563537 | RDL | QC Batch |
| | | | | | | | |
| PM 10 Particulate | ug/m3 | 10.2 | 16.2 | 3.4 | 5.6 | 1.2 | 9037073 |
| Particulate Weight on Filter | ug | 245 | 389 | 82 | 135 | 30 | 9047773 |
| Volume | m3 | 24.05 | 24.05 | 24.05 | 24.05 | N/A | ONSITE |
| **Subcontracted Analysis** | | | | | | | |
| Subcontract Parameter | N/A | N/A | ATTACHED | N/A | N/A | N/A | 9063929 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

| Bureau Veritas ID | | XNQ867 | XNQ868 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2023/10/21 | 2023/10/27 | | |
| COC Number | | na | na | | |
| | UNITS | TEARDROP PM10 OCT21 WC1563543 | TEARDROP PM10 OCT27 WC1563545 | RDL | QC Batch |
| | | | | | |
| PM 10 Particulate | ug/m3 | 4.7 | 3.5 | 1.2 | 9037073 |
| Particulate Weight on Filter | ug | 112 | 85 | 30 | 9047773 |
| Volume | m3 | 24.05 | 24.05 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3Y9874
Report Date: 2023/11/21

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: CB

## TEST SUMMARY

**Bureau Veritas ID:** XNQ863 **Collected:** 2023/09/27
**Sample ID:** TEARDROP PM10 SEP27 W23758089 **Shipped:**
**Matrix:** Filter **Received:** 2023/11/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9037073 | N/A | 2023/11/15 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9047773 | N/A | 2023/11/14 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/11/08 | Dipika Singh |

**Bureau Veritas ID:** XNQ864 **Collected:** 2023/10/03
**Sample ID:** TEARDROP 47MM PVC OCT3 23032012 **Shipped:**
**Matrix:** Filter **Received:** 2023/11/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9037073 | N/A | 2023/11/15 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9047773 | N/A | 2023/11/14 | Nancy Dhir |
| Subcontracting from AT-AMB to BV Novi | | 9063929 | N/A | | Cristina (Maria) Bacchus |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/11/08 | Dipika Singh |

**Bureau Veritas ID:** XNQ865 **Collected:** 2023/10/09
**Sample ID:** TEARDROP PM10 OCT9 W23758086 **Shipped:**
**Matrix:** Filter **Received:** 2023/11/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9037073 | N/A | 2023/11/15 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9047773 | N/A | 2023/11/14 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/11/08 | Dipika Singh |

**Bureau Veritas ID:** XNQ866 **Collected:** 2023/10/15
**Sample ID:** TEARDROP PM10 OCT15 WC1563537 **Shipped:**
**Matrix:** Filter **Received:** 2023/11/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9037073 | N/A | 2023/11/15 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9047773 | N/A | 2023/11/14 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/11/08 | Dipika Singh |

**Bureau Veritas ID:** XNQ867 **Collected:** 2023/10/21
**Sample ID:** TEARDROP PM10 OCT21 WC1563543 **Shipped:**
**Matrix:** Filter **Received:** 2023/11/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9037073 | N/A | 2023/11/15 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9047773 | N/A | 2023/11/14 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/11/08 | Dipika Singh |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3Y9874
Report Date: 2023/11/21

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: CB

## TEST SUMMARY

**Bureau Veritas ID:** XNQ868
**Sample ID:** TEARDROP PM10 OCT27 WC1563545
**Matrix:** Filter

**Collected:** 2023/10/27
**Shipped:**
**Received:** 2023/11/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9037073 | N/A | 2023/11/15 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9047773 | N/A | 2023/11/14 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/11/08 | Dipika Singh |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3Y9874
Report Date: 2023/11/21

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: CB

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

Cristina Bacchus

Cristina (Maria) Bacchus, Project Manager

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

AIR

08-Nov-23 09:34

Jade Browne

C3Y9874

J_L AIR-RmTmp

CAM FCD-01302 /3

BUREAU VERITAS

www.bvlabs.com

)-668-0639
) 817-5700
Fax: (905) 817-5777

## CHAIN OF CUSTODY FORM - AIR

Page ____ of _____

**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Ashley Moncrief
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: CB + EM

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening (Inner Diameter | Dust Fall Opening (Outer Diameter | Silica | PM 10 | PM 2.5 | Dustfall | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WQI641-01 Tote Dustfall October | n/a | n/a | October 1 - Nov 1 | | | | | | | X | | | | | | | |
| WQI644-01 Teardrop Dustfall | n/a | n/a | October 1 - Nov 1 | | | | | | | X | | | | | | | |
| WQI643-01 Bell Towers Dustfall | n/a | n/a | October 1 - Nov 1 | | | | | | | X | | | | | | | |
| Teardrop PM10 Sep 27 W23758089 | 24.05 | 16.7 | Sep 27 2023 | | | | | X | | | | | | | | | |
| Teardrop 47mm PVC Oct 3 23032012 | 24.05 | 16.7 | Oct 3 2023 | | | | | X | | | | | | | | | |
| Teardrop PM10 Oct 9 W23758086 | 24.05 | 16.7 | Oct 9 2023 | | | | | X | | | | | | | | | |
| Teardrop PM10 Oct 15 WC1563537 | 24.05 | 16.7 | Oct 15 2023 | | | | | X | | | | | | | | | |
| Teardrop PM10 Oct 21 WC1563543 | 24.05 | 16.7 | Oct 21 2023 | | | | | X | | | | | | | | | |
| Teardrop PM10 Oct 27 WC1563545 | 24.05 | 16.7 | Oct 27 2023 | | | | | X | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2003.2023D.100
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Jade Browne

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com; emily.meek@kinross.com; aaron.peloquin@kinross.com; curtis.bloemberg@kinross.com***

Client Signature: EMeek
Affiliation:
Date/Time: 3 NOV 23

Received by: [illegible] SAMRA BASRA
Affiliation:
Date/Time: 2023/11/08 09/34

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Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/12/22**
Report #: R7967157
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3AZ814**
**Received: 2023/12/07, 09:25**

Sample Matrix: Filter
# Samples Received: 11

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | 6 | N/A | 2023/12/14 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate (PM10) | 6 | N/A | 2023/12/13 | BRL SOP-00109 | Mthd IO-3-1 |
| Particulate Calculation | 5 | N/A | 2023/12/14 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate | 5 | N/A | 2023/12/13 | BRL SOP-00109 | Mthd IO-3-1 |
| Subcontracting from AT-AMB to BV Novi (1) | 1 | N/A | N/A | | Subcontracting |
| Air Volume from LoVol Sampling | 11 | N/A | 2023/12/08 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCCFP, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas (Novi), 22345 Roethal Dr. , Novi, MI, 48375

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/12/22**
Report #: R7967157
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3AZ814**
**Received: 2023/12/07, 09:25**

Encryption Key

Jade Browne
Project Manager Assistant - Air
22 Dec 2023 15:47:22

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C3AZ814
Report Date: 2023/12/22

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | XVI145 | XVI146 | XVI147 | XVI148 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/11/02 00:00 | 2023/11/08 00:00 | 2023/11/14 00:00 | 2023/11/20 00:00 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | TEARDROP NOV 2 47 MM PVC 23032001 | TEARDROP NOV 8 PM 10 23758091 | TEARDROP NOV 14 PM 10 1629082 | TEARDROP NOV 20 PM 10 1629077 | RDL | QC Batch |
| | | | | | | | |
| PM 10 Particulate | ug/m3 | 5.6 | 2.4 | 4.1 | 5.5 | 1.2 | 9100937 |
| Particulate Weight on Filter | ug | 134 | 58 | 99 | 133 | 30 | 9108522 |
| Volume | m3 | 24.05 | 24.05 | 24.05 | 24.05 | N/A | ONSITE |
| **Subcontracted Analysis** | | | | | | | |
| Subcontract Parameter | N/A | ATTACHED | N/A | N/A | N/A | N/A | 9129685 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

| Bureau Veritas ID | | XVI149 | XVI150 | | XVI151 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/11/22 00:00 | 2023/11/26 00:00 | | 2023/11/02 00:00 | | |
| COC Number | | n/a | n/a | | n/a | | |
| | UNITS | TEARDROP NOV 22 PM 10 BLANK 1629084 | TEARDROP NOV 26 PM 10 1629081 | QC Batch | TEARDROP NOV 2 PM 2.5 1563539 | RDL | QC Batch |
| | | | | | | | |
| Particulate | ug/m3 | N/A | N/A | 9100938 | 4.4 | 1.2 | 9100938 |
| PM 10 Particulate | ug/m3 | <1.2 | 4.6 | 9100937 | N/A | 1.2 | 9100937 |
| Particulate Weight on Filter | ug | <30 | 110 | 9108522 | 106 | 30 | 9111257 |
| Volume | m3 | 24.05 | 24.05 | ONSITE | 24.03 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3AZ814
Report Date: 2023/12/22

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | XVI152 | XVI153 | XVI154 | XVI155 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/11/08 00:00 | 2023/11/14 00:00 | 2023/11/20 00:00 | 2023/11/26 00:00 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | TEARDROP NOV 8 PM 2.5 23758087 | TEARDROP NOV 14 PM 2.5 1629083 | TEARDROP NOV 20 PM 2.5 1629078 | TEARDROP NOV 26 PM 2.5 1629080 | RDL | QC Batch |
| Particulate | ug/m3 | 2.9 | 3.0 | 4.0 | 1.3 | 1.2 | 9100938 |
| Particulate Weight on Filter | ug | 69 | 73 | 97 | 31 | 30 | 9111257 |
| Volume | m3 | 24.03 | 24.02 | 24.03 | 24.03 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3AZ814
Report Date: 2023/12/22

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** XVI145 **Collected:** 2023/11/02
**Sample ID:** TEARDROP NOV 2 47 MM PVC 23032001 **Shipped:**
**Matrix:** Filter **Received:** 2023/12/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9100937 | N/A | 2023/12/14 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9108522 | N/A | 2023/12/13 | Nancy Dhir |
| Subcontracting from AT-AMB to BV Novi | | 9129685 | N/A | | Jade Browne |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/12/08 | Prabhdeep Kaur |

**Bureau Veritas ID:** XVI146 **Collected:** 2023/11/08
**Sample ID:** TEARDROP NOV 8 PM 10 23758091 **Shipped:**
**Matrix:** Filter **Received:** 2023/12/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9100937 | N/A | 2023/12/14 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9108522 | N/A | 2023/12/13 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/12/08 | Prabhdeep Kaur |

**Bureau Veritas ID:** XVI147 **Collected:** 2023/11/14
**Sample ID:** TEARDROP NOV 14 PM 10 1629082 **Shipped:**
**Matrix:** Filter **Received:** 2023/12/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9100937 | N/A | 2023/12/14 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9108522 | N/A | 2023/12/13 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/12/08 | Prabhdeep Kaur |

**Bureau Veritas ID:** XVI148 **Collected:** 2023/11/20
**Sample ID:** TEARDROP NOV 20 PM 10 1629077 **Shipped:**
**Matrix:** Filter **Received:** 2023/12/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9100937 | N/A | 2023/12/14 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9108522 | N/A | 2023/12/13 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/12/08 | Prabhdeep Kaur |

**Bureau Veritas ID:** XVI149 **Collected:** 2023/11/22
**Sample ID:** TEARDROP NOV 22 PM 10 BLANK 1629084 **Shipped:**
**Matrix:** Filter **Received:** 2023/12/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9100937 | N/A | 2023/12/14 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9108522 | N/A | 2023/12/13 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/12/08 | Prabhdeep Kaur |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3AZ814
Report Date: 2023/12/22

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** XVI150 **Collected:** 2023/11/26
**Sample ID:** TEARDROP NOV 26 PM 10 1629081 **Shipped:**
**Matrix:** Filter **Received:** 2023/12/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9100937 | N/A | 2023/12/14 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9108522 | N/A | 2023/12/13 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/12/08 | Prabhdeep Kaur |

**Bureau Veritas ID:** XVI151 **Collected:** 2023/11/02
**Sample ID:** TEARDROP NOV 2 PM 2.5 1563539 **Shipped:**
**Matrix:** Filter **Received:** 2023/12/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 9100938 | N/A | 2023/12/14 | Automated Statchk |
| Total Particulate | BAL | 9111257 | N/A | 2023/12/13 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/12/08 | Prabhdeep Kaur |

**Bureau Veritas ID:** XVI152 **Collected:** 2023/11/08
**Sample ID:** TEARDROP NOV 8 PM 2.5 23758087 **Shipped:**
**Matrix:** Filter **Received:** 2023/12/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 9100938 | N/A | 2023/12/14 | Automated Statchk |
| Total Particulate | BAL | 9111257 | N/A | 2023/12/13 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/12/08 | Prabhdeep Kaur |

**Bureau Veritas ID:** XVI153 **Collected:** 2023/11/14
**Sample ID:** TEARDROP NOV 14 PM 2.5 1629083 **Shipped:**
**Matrix:** Filter **Received:** 2023/12/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 9100938 | N/A | 2023/12/14 | Automated Statchk |
| Total Particulate | BAL | 9111257 | N/A | 2023/12/13 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/12/08 | Prabhdeep Kaur |

**Bureau Veritas ID:** XVI154 **Collected:** 2023/11/20
**Sample ID:** TEARDROP NOV 20 PM 2.5 1629078 **Shipped:**
**Matrix:** Filter **Received:** 2023/12/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 9100938 | N/A | 2023/12/14 | Automated Statchk |
| Total Particulate | BAL | 9111257 | N/A | 2023/12/13 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/12/08 | Prabhdeep Kaur |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3AZ814
Report Date: 2023/12/22

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** XVI155
**Sample ID:** TEARDROP NOV 26 PM 2.5 1629080
**Matrix:** Filter

**Collected:** 2023/11/26
**Shipped:**
**Received:** 2023/12/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 9100938 | N/A | 2023/12/14 | Automated Statchk |
| Total Particulate | BAL | 9111257 | N/A | 2023/12/13 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/12/08 | Prabhdeep Kaur |



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3AZ814
Report Date: 2023/12/22

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere, Senior Scientific Specialist

Jade Browne, Project Manager Assistant - Air

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

AIR

BUREAU VERITAS

6740 Campobello Rd
Mississauga Ontario ,L5N 2L8
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

CAM FCD-013(

# CHAIN OF CUSTODY FORM - AIR

Page _

**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM + CB + EM + AP

**SECTION**

**ANALYSIS REQUESTED**

07-Dec-23 09:25
Gina Baybayan
C3AZ814
URE AIR-RmTmp

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening (Inner Diameter | Dust Fall Opening (Outer Diameter | Silica | PM 10 | PM 2.5 | Dustfall | TSP | Metals | Mercury | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Teardrop Nov 2 47 mm PVC 23032001 | 24.05 | 16.7 | 2-Nov | 0:00 | | | X | X | | | | | | | | |
| Teardrop Nov 8 PM 10 23758091 | 24.05 | 16.7 | 8-Nov | 0:00 | | | | X | | | | | | | | |
| Teardrop Nov 14 PM 10 1629082 | 24.05 | 16.7 | 14-Nov | 0:00 | | | | X | | | | | | | | |
| Teardrop Nov 20 PM 10 1629077 | 24.05 | 16.7 | 20-Nov | 0:00 | | | | X | | | | | | | | |
| Teardrop Nov 22 PM 10 Blank 1629084 | 24.05 | 16.7 | 22-Nov | 0:00 | | | | X | | | | | | | | |
| Teardrop Nov 26 PM 10 1629081 | 24.05 | 16.7 | 26-Nov | 0:00 | | | | X | | | | | | | | |
| Tote Road Nov 2 PM 2.5 1563539 | 24.03 | 16.7 | 2-Nov | 0:00 | | | | | X | | | | | | | |
| Tote Road Nov 8 PM 2.5 23758087 | 24.03 | 16.7 | 8-Nov | 0:00 | | | | | X | | | | | | | |
| Tote Road Nov 14 PM 2.5 1629083 | 24.02 | 16.7 | 14-Nov | 0:00 | | | | | X | | | | | | | |
| Tote Road Nov 20 PM 2.5 1629078 | 24.03 | 16.7 | 20-Nov | 0:00 | | | | | X | | | | | | | |
| Tote Road Nov 26 PM 2.5 1629080 | 24.03 | 16.7 | 26-Nov | 0:00 | | | | | X | | | | | | | |
| | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2003.2023D.100
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Jade Browne

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.***
***ashley.moncrief@kinross.com; christopher.reid@kinross.***
***ryan.fletcher@woodplc.com; airgroup@woodplc.com;***
***emily.meek@kinross.com; aaron.peloquin@kinross.cor***
***curtis.bloemberg@kinross.com***

Client Signature: Jacob McFee
Affiliation: Kinross
Date/Time: Dec 1 2023

Received by: BJE SAMRA BASSOLA
Affiliation:
Date/Time: 2023/12/07 09:25

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Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/12/22**
Report #: R7967157
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3AZ814**
**Received: 2023/12/07, 09:25**

Sample Matrix: Filter
# Samples Received: 11

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | 6 | N/A | 2023/12/14 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate (PM10) | 6 | N/A | 2023/12/13 | BRL SOP-00109 | Mthd IO-3-1 |
| Particulate Calculation | 5 | N/A | 2023/12/14 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate | 5 | N/A | 2023/12/13 | BRL SOP-00109 | Mthd IO-3-1 |
| Subcontracting from AT-AMB to BV Novi (1) | 1 | N/A | N/A | | Subcontracting |
| Air Volume from LoVol Sampling | 11 | N/A | 2023/12/08 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCCFP, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
(1) This test was performed by Bureau Veritas (Novi), 22345 Roethal Dr. , Novi, MI, 48375

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/12/22**
Report #: R7967157
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3AZ814**
**Received: 2023/12/07, 09:25**

Encryption Key

Jade Browne
Project Manager Assistant - Air
22 Dec 2023 15:47:26

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Bureau Veritas Job #: C3AZ814
Report Date: 2023/12/22

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | XVI145 | | | XVI146 | XVI147 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/11/02 00:00 | | | 2023/11/08 00:00 | 2023/11/14 00:00 | | |
| COC Number | | n/a | | | n/a | n/a | | |
| | UNITS | TEARDROP NOV 2 47 MM PVC 23032001 | RDL | QC Batch | TEARDROP NOV 8 PM 10 23758091 | TEARDROP NOV 14 PM 10 1629082 | RDL | QC Batch |
| PM 10 Particulate | ug/m3 | 5.6 | 1.2 | 9100937 | 2.4 | 4.1 | 1.2 | 9100937 |
| Particulate Weight on Filter | ug | 134 | 30 | 9108522 | 58 | 99 | 30 | 9108522 |
| Volume | m3 | 24.05 | N/A | ONSITE | 24.05 | 24.05 | N/A | ONSITE |
| **Subcontracted Analysis** | | | | | | | | |
| Subcontract Parameter | N/A | ATTACHED | N/A | 9129685 | | | | |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

| Bureau Veritas ID | | XVI148 | XVI149 | XVI150 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2023/11/20 00:00 | 2023/11/22 00:00 | 2023/11/26 00:00 | | |
| COC Number | | n/a | n/a | n/a | | |
| | UNITS | TEARDROP NOV 20 PM 10 1629077 | TEARDROP NOV 22 PM 10 BLANK 1629084 | TEARDROP NOV 26 PM 10 1629081 | RDL | QC Batch |
| PM 10 Particulate | ug/m3 | 5.5 | <1.2 | 4.6 | 1.2 | 9100937 |
| Particulate Weight on Filter | ug | 133 | <30 | 110 | 30 | 9108522 |
| Volume | m3 | 24.05 | 24.05 | 24.05 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3AZ814
Report Date: 2023/12/22

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | XVI151 | XVI152 | XVI153 | XVI154 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/11/02 00:00 | 2023/11/08 00:00 | 2023/11/14 00:00 | 2023/11/20 00:00 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | TEARDROP NOV 2 PM 2.5 1563539 | TEARDROP NOV 8 PM 2.5 23758087 | TEARDROP NOV 14 PM 2.5 1629083 | TEARDROP NOV 20 PM 2.5 1629078 | RDL | QC Batch |
| Particulate | ug/m3 | 4.4 | 2.9 | 3.0 | 4.0 | 1.2 | 9100938 |
| Particulate Weight on Filter | ug | 106 | 69 | 73 | 97 | 30 | 9111257 |
| Volume | m3 | 24.03 | 24.03 | 24.02 | 24.03 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

| Bureau Veritas ID | | XVI155 | | |
|---|---|---|---|---|
| Sampling Date | | 2023/11/26 00:00 | | |
| COC Number | | n/a | | |
| | UNITS | TEARDROP NOV 26 PM 2.5 1629080 | RDL | QC Batch |
| Particulate | ug/m3 | 1.3 | 1.2 | 9100938 |
| Particulate Weight on Filter | ug | 31 | 30 | 9111257 |
| Volume | m3 | 24.03 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3AZ814
Report Date: 2023/12/22

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere, Senior Scientific Specialist

Jade Browne, Project Manager Assistant - Air

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/01/23**
Report #: R7999316
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C414375**
**Received: 2024/01/15, 09:00**

Sample Matrix: Filter
# Samples Received: 7

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Particulate Calculation | 7 | N/A | 2024/01/22 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate | 7 | N/A | 2024/01/19 | BRL SOP-00109 | Mthd IO-3-1 |
| Air Volume from LoVol Sampling | 7 | N/A | 2024/01/17 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
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Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/01/23**
Report #: R7999316
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C414375**
**Received: 2024/01/15, 09:00**

Encryption Key

Cristina (Maria) Bacchus
Project Manager
23 Jan 2024 10:50:56

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C414375
Report Date: 2024/01/23

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | YCY584 | | YCY585 | | YCY586 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/12/02 | | 2023/12/08 | | 2023/12/14 | | |
| COC Number | | n/a | | n/a | | n/a | | |
| | UNITS | TOTE 1629085 DECEMBER 2 PM 2.5 | RDL | TOTE 1629087 DECEMBER 8 PM 2.5 | RDL | TOTE 1563546 DECEMBER 14 PM 2.5 | RDL | QC Batch |
| Particulate | ug/m3 | 3.09 | 0.80 | <14 | 14 | 1.6 | 1.2 | 9166588 |
| Particulate Weight on Filter | ug | 116 | 30 | <30 | 30 | 39 | 30 | 9174718 |
| Volume | m3 | 37.40 | N/A | 2.190 | N/A | 24.03 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

| Bureau Veritas ID | | YCY587 | | YCY588 | | YCY589 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/12/20 | | 2023/12/26 | | 2023/12/31 | | |
| COC Number | | n/a | | n/a | | n/a | | |
| | UNITS | TOTE 1563547 DECEMBER 20 PM 2.5 | RDL | TOTE 1668237 DECEMBER 26 PM 2.5 | RDL | TOTE 1668230 DECEMBER 31 PM 2.5 | RDL | QC Batch |
| Particulate | ug/m3 | <1.2 | 1.2 | 9.6 | 3.7 | 1.9 | 1.2 | 9166588 |
| Particulate Weight on Filter | ug | <30 | 30 | 78 | 30 | 47 | 30 | 9174718 |
| Volume | m3 | 24.03 | N/A | 8.080 | N/A | 24.03 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

| Bureau Veritas ID | | YCY590 | | |
|---|---|---|---|---|
| Sampling Date | | 2024/01/04 | | |
| COC Number | | n/a | | |
| | UNITS | TOTE 1668238 JANUARY 4 PM 2.5 | RDL | QC Batch |
| Particulate | ug/m3 | 1.3 | 1.2 | 9166588 |
| Particulate Weight on Filter | ug | 32 | 30 | 9174718 |
| Volume | m3 | 24.04 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C414375
Report Date: 2024/01/23

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## GENERAL COMMENTS

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C414375
Report Date: 2024/01/23

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/02/02**
Report #: R8013010
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C414382**
**Received: 2024/01/15, 09:00**

Sample Matrix: Filter
# Samples Received: 8

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | 6 | N/A | 2024/01/22 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate (PM10) | 8 | N/A | 2024/01/19 | BRL SOP-00109 | Mthd IO-3-1 |
| Subcontracting from AT-AMB to BV Novi (1) | 1 | N/A | N/A | | Subcontracting |
| Air Volume from LoVol Sampling | 6 | N/A | 2024/01/17 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
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Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas (Novi), 22345 Roethal Dr. , Novi, MI, 48375

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/02/02**
Report #: R8013010
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C414382**
**Received: 2024/01/15, 09:00**

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Cristina (Maria) Bacchus
Project Manager
02 Feb 2024 15:31:16

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C414382
Report Date: 2024/02/02

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | YCY613 | YCY614 | YCY615 | YCY616 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/12/02 | 2023/12/04 | 2023/12/08 | 2023/12/14 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | TEARDROP 1629086 DECEMBER 2 PM 10 | TEARDROP 1629076 DECEMBER 4 PM 10 BLANK | TEARDROP 23032008 DECEMBER 8 47 MM PVC | TEARDROP 1563540 DECEMBER 14 PM 10 | RDL | QC Batch |
| PM 10 Particulate | ug/m3 | 4.6 | N/A | <1.2 | N/A | 1.2 | 9167622 |
| Particulate Weight on Filter | ug | 112 | <30 | <30 (1) | <30 | 30 | 9174709 |
| Volume | m3 | 24.05 | N/A | 24.05 | N/A | N/A | ONSITE |
| **Subcontracted Analysis** | | | | | | | |
| Subcontract Parameter | N/A | N/A | N/A | ATTACHED | N/A | N/A | 9198637 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) Negative weight observed as filter was found torn

| Bureau Veritas ID | | YCY617 | YCY618 | YCY619 | YCY620 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/12/29 | 2023/12/26 | 2023/12/30 | 2024/01/04 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | TEARDROP 1563548 DECEMBER 20 PM 10 | TEARDROP 1668236 DECEMBER 26 PM 10 | TEARDROP 1668231 DECEMBER 30 PM 10 | TEARDROP 1668232 JANUARY 4 PM 10 | RDL | QC Batch |
| PM 10 Particulate | ug/m3 | 1.8 | 1.6 | 2.4 | 2.9 | 1.2 | 9167622 |
| Particulate Weight on Filter | ug | 44 | 39 | 58 | 70 | 30 | 9174709 |
| Volume | m3 | 24.05 | 24.05 | 24.05 | 24.05 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C414382
Report Date: 2024/02/02

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** YCY613 **Collected:** 2023/12/02
**Sample ID:** TEARDROP 1629086 DECEMBER 2 PM 10 **Shipped:**
**Matrix:** Filter **Received:** 2024/01/15

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9167622 | N/A | 2024/01/22 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9174709 | N/A | 2024/01/19 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/01/17 | Prabhdeep Kaur |

**Bureau Veritas ID:** YCY614 **Collected:** 2023/12/04
**Sample ID:** TEARDROP 1629076 DECEMBER 4 PM 10 BLANK **Shipped:**
**Matrix:** Filter **Received:** 2024/01/15

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Total Particulate (PM10) | BAL | 9174709 | N/A | 2024/01/19 | Nancy Dhir |

**Bureau Veritas ID:** YCY615 **Collected:** 2023/12/08
**Sample ID:** TEARDROP 23032008 DECEMBER 8 47 MM PVC **Shipped:**
**Matrix:** Filter **Received:** 2024/01/15

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9167622 | N/A | 2024/01/22 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9174709 | N/A | 2024/01/19 | Nancy Dhir |
| Subcontracting from AT-AMB to BV Novi | | 9198637 | N/A | | Jade Browne |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/01/17 | Prabhdeep Kaur |

**Bureau Veritas ID:** YCY616 **Collected:** 2023/12/14
**Sample ID:** TEARDROP 1563540 DECEMBER 14 PM 10 **Shipped:**
**Matrix:** Filter **Received:** 2024/01/15

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Total Particulate (PM10) | BAL | 9174709 | N/A | 2024/01/19 | Nancy Dhir |

**Bureau Veritas ID:** YCY617 **Collected:** 2023/12/29
**Sample ID:** TEARDROP 1563548 DECEMBER 20 PM 10 **Shipped:**
**Matrix:** Filter **Received:** 2024/01/15

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9167622 | N/A | 2024/01/22 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9174709 | N/A | 2024/01/19 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/01/17 | Prabhdeep Kaur |

**Bureau Veritas ID:** YCY618 **Collected:** 2023/12/26
**Sample ID:** TEARDROP 1668236 DECEMBER 26 PM 10 **Shipped:**
**Matrix:** Filter **Received:** 2024/01/15

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9167622 | N/A | 2024/01/22 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9174709 | N/A | 2024/01/19 | Nancy Dhir |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C414382
Report Date: 2024/02/02

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** YCY618 **Collected:** 2023/12/26
**Sample ID:** TEARDROP 1668236 DECEMBER 26 PM 10 **Shipped:**
**Matrix:** Filter **Received:** 2024/01/15

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/01/17 | Prabhdeep Kaur |

**Bureau Veritas ID:** YCY619 **Collected:** 2023/12/30
**Sample ID:** TEARDROP 1668231 DECEMBER 30 PM 10 **Shipped:**
**Matrix:** Filter **Received:** 2024/01/15

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9167622 | N/A | 2024/01/22 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9174709 | N/A | 2024/01/19 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/01/17 | Prabhdeep Kaur |

**Bureau Veritas ID:** YCY620 **Collected:** 2024/01/04
**Sample ID:** TEARDROP 1668232 JANUARY 4 PM 10 **Shipped:**
**Matrix:** Filter **Received:** 2024/01/15

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9167622 | N/A | 2024/01/22 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9174709 | N/A | 2024/01/19 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/01/17 | Prabhdeep Kaur |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

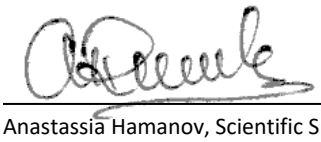
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C414382
Report Date: 2024/02/02

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

Jade Browne, Project Manager Assistant - Air

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

CAM FCD-013(

6740 Campobello Rd
Mississauga Ontario ,L5N 2L8
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / WSP E&I Canada
Project Manager: Ryan Fletcher
e-mail: See comments below for email list
Address: 19 Young Street,
Red Lake, ON, CA, P0V 2M0
Phone: 1 647-283-4638 Fax:
Sampled by: JM + CB + EM + AP

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening (Inner Diameter) | Dust Fall Opening (Outer Diameter) | Silica | PM 10 | PM 2.5 | Dustfall | TSP | Metals | Mercury | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Teardrop 1629086 December 2 PM 10 | 24.05 | 16.7 | 2-Dec | 0:00 | | | | X | | | | | | | | |
| Teardrop 1629076 December 4 PM 10 BLANK | 0 | 0 | 4-Dec | 0:00 | | | | X | | | | | | | | |
| Teardrop 2303208 December 8 47 mm PVC | 25.05 | 16.7 | 8-Dec | 0:00 | | | X | X | | | | | | | | |
| Teardrop 1563540 December 14 PM 10 | 0 | 0 | 14-Dec | 0:00 | | | | X | | | | | | | | |
| Teardrop 1563548 December 20 PM 10 | 24.05 | 16.7 | 29-Dec | 0:00 | | | | X | | | | | | | | |
| Teardrop 1668236 December 26 PM 10 | 24.05 | 16.7 | 26-Dec | 0:00 | | | | X | | | | | | | | |
| Teardrop 1668231 December 30 PM 10 | 24.05 | 16.7 | 30-Dec | 0:00 | | | | X | | | | | | | | |
| Teardrop 1668232 January 4 PM 10 | 26.05 | 16.7 | 4-Jan | 0:00 | | | | X | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

15-Jan-24 09:00
Gina Baybayan
C414382
AK0 AIR-RmTmp

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2003.2023D.100
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Jade Browne

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.ashley.moncrief@kinross.com; ryan.fletcher@wsp.com airgroup@woodplc.com; emily.meek@kinross.com; aaron.peloquin@kinross.com; curtis.bloemberg@kinross.***

| | | | |
|---|---|---|---|
| Client Signature: | | Received by: | ANERJ |
| Affiliation: | Kinross | Affiliation: | |
| Date/Time: | Jan 10 2024 13:00 | Date/Time: | 20240115 0900 |

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions*

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/04/24**
Report #: R7599994
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3A3181**
**Received: 2023/04/13, 09:13**

Sample Matrix: Filter
# Samples Received: 11

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Particulate Calculation | 11 | N/A | 2023/04/24 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate | 11 | N/A | 2023/04/19 | BRL SOP-00109 | Mthd IO-3-1 |
| Air Volume from LoVol Sampling | 11 | N/A | 2023/04/13 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/04/24**
Report #: R7599994
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3A3181**
**Received: 2023/04/13, 09:13**

Encryption Key

Cristina (Maria) Bacchus
Project Manager
24 Apr 2023 19:31:35

Please direct all questions regarding this Certificate of Analysis to:
Marinela Sim, Project Manager
Email: Marinela.Sim@bureauveritas.com
Phone# (905)817-5828

==========

This report has been generated and distributed using a secure automated process.
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Bureau Veritas Job #: C3A3181
Report Date: 2023/04/24

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | VNQ571 | | VNQ572 | VNQ573 | VNQ574 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/03/29 | | 2023/03/08 | 2023/04/01 | 2023/03/29 | | |
| COC Number | | n/a | | n/a | n/a | n/a | | |
| | UNITS | 22002486 TEARDROP PM 2.5 MARCH 29 | RDL | 20204327 TOTE PM 2.5 MARCH 8 | 21903023 TOTE PM 2.5 APRIL 1 | 2200487 TOTE PM 2.5 MARCH 29 | RDL | QC Batch |
| Particulate | ug/m3 | 7.5 | 1.3 | 3.8 | 2.6 | 4.5 | 1.2 | 8606958 |
| Particulate Weight on Filter | ug | 173 | 30 | 92 | 64 | 108 | 30 | 8624505 |
| Volume | m3 | 22.95 | N/A | 24.02 | 24.02 | 24.03 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

| Bureau Veritas ID | | VNQ575 | VNQ576 | VNQ577 | VNQ578 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/03/14 | 2023/03/21 | 2023/02/17 | 2023/03/17 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | 21903024 TOTE PM 2.5 MARCH 14 | 22001503 TOTE PM 2.5 MARCH 21 | 1415674 TOTE PM 2.5 FEBRUARY 17 | 20204312 TOTE PM 2.5 MARCH 17 | RDL | QC Batch |
| Particulate | ug/m3 | 1.5 | 2.4 | 3.4 | 3.3 | 1.2 | 8606958 |
| Particulate Weight on Filter | ug | 36 | 59 | 81 | 80 | 30 | 8624505 |
| Volume | m3 | 24.02 | 24.03 | 24.03 | 24.05 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

| Bureau Veritas ID | | VNQ579 | VNQ580 | VNQ581 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2023/03/11 | 2023/03/02 | 2023/02/28 | | |
| COC Number | | n/a | n/a | n/a | | |
| | UNITS | 22001173 TOTE PM 2.5 MARCH 11 | 1415676 TOTE PM 2.5 MARCH 2 | 1415682 TOTE 2.5 FEBRUARY 28 | RDL | QC Batch |
| Particulate | ug/m3 | 1.8 | 3.8 | 3.1 | 1.2 | 8606958 |
| Particulate Weight on Filter | ug | 44 | 92 | 74 | 30 | 8624505 |
| Volume | m3 | 24.02 | 24.02 | 24.02 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## TEST SUMMARY

**Bureau Veritas ID:** VNQ571 **Collected:** 2023/03/29
**Sample ID:** 22002486 TEARDROP PM 2.5 MARCH 29 **Shipped:**
**Matrix:** Filter **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8606958 | N/A | 2023/04/24 | Automated Statchk |
| Total Particulate | BAL | 8624505 | N/A | 2023/04/19 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/04/13 | Prabhdeep Kaur |

**Bureau Veritas ID:** VNQ572 **Collected:** 2023/03/08
**Sample ID:** 20204327 TOTE PM 2.5 MARCH 8 **Shipped:**
**Matrix:** Filter **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8606958 | N/A | 2023/04/24 | Automated Statchk |
| Total Particulate | BAL | 8624505 | N/A | 2023/04/19 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/04/13 | Prabhdeep Kaur |

**Bureau Veritas ID:** VNQ573 **Collected:** 2023/04/01
**Sample ID:** 21903023 TOTE PM 2.5 APRIL 1 **Shipped:**
**Matrix:** Filter **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8606958 | N/A | 2023/04/24 | Automated Statchk |
| Total Particulate | BAL | 8624505 | N/A | 2023/04/19 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/04/13 | Prabhdeep Kaur |

**Bureau Veritas ID:** VNQ574 **Collected:** 2023/03/29
**Sample ID:** 2200487 TOTE PM 2.5 MARCH 29 **Shipped:**
**Matrix:** Filter **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8606958 | N/A | 2023/04/24 | Automated Statchk |
| Total Particulate | BAL | 8624505 | N/A | 2023/04/19 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/04/13 | Prabhdeep Kaur |

**Bureau Veritas ID:** VNQ575 **Collected:** 2023/03/14
**Sample ID:** 21903024 TOTE PM 2.5 MARCH 14 **Shipped:**
**Matrix:** Filter **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8606958 | N/A | 2023/04/24 | Automated Statchk |
| Total Particulate | BAL | 8624505 | N/A | 2023/04/19 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/04/13 | Prabhdeep Kaur |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## TEST SUMMARY

**Bureau Veritas ID:** VNQ576 **Collected:** 2023/03/21
**Sample ID:** 22001503 TOTE PM 2.5 MARCH 21 **Shipped:**
**Matrix:** Filter **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8606958 | N/A | 2023/04/24 | Automated Statchk |
| Total Particulate | BAL | 8624505 | N/A | 2023/04/19 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/04/13 | Prabhdeep Kaur |

**Bureau Veritas ID:** VNQ577 **Collected:** 2023/02/17
**Sample ID:** 1415674 TOTE PM 2.5 FEBRUARY 17 **Shipped:**
**Matrix:** Filter **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8606958 | N/A | 2023/04/24 | Automated Statchk |
| Total Particulate | BAL | 8624505 | N/A | 2023/04/19 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/04/13 | Prabhdeep Kaur |

**Bureau Veritas ID:** VNQ578 **Collected:** 2023/03/17
**Sample ID:** 20204312 TOTE PM 2.5 MARCH 17 **Shipped:**
**Matrix:** Filter **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8606958 | N/A | 2023/04/24 | Automated Statchk |
| Total Particulate | BAL | 8624505 | N/A | 2023/04/19 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/04/13 | Prabhdeep Kaur |

**Bureau Veritas ID:** VNQ579 **Collected:** 2023/03/11
**Sample ID:** 22001173 TOTE PM 2.5 MARCH 11 **Shipped:**
**Matrix:** Filter **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8606958 | N/A | 2023/04/24 | Automated Statchk |
| Total Particulate | BAL | 8624505 | N/A | 2023/04/19 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/04/13 | Prabhdeep Kaur |

**Bureau Veritas ID:** VNQ580 **Collected:** 2023/03/02
**Sample ID:** 1415676 TOTE PM 2.5 MARCH 2 **Shipped:**
**Matrix:** Filter **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8606958 | N/A | 2023/04/24 | Automated Statchk |
| Total Particulate | BAL | 8624505 | N/A | 2023/04/19 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/04/13 | Prabhdeep Kaur |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3A3181
Report Date: 2023/04/24

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** VNQ581
**Sample ID:** 1415682 TOTE 2.5 FEBRUARY 28
**Matrix:** Filter

**Collected:** 2023/02/28
**Shipped:**
**Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8606958 | N/A | 2023/04/24 | Automated Statchk |
| Total Particulate | BAL | 8624505 | N/A | 2023/04/19 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/04/13 | Prabhdeep Kaur |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



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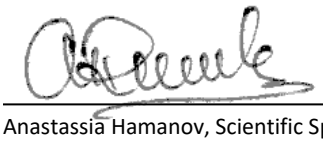
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3A3181
Report Date: 2023/04/24

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

13-Apr-23 09:13
Jolanta Goralczyk
C3A3181

RPK

AIR-RmTmp

CAM FCD-01302 /3

pobello Rd
ga Ontario ,L5N 2L8
www.bvlabs.com
Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM + CR

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening (Inner Diameter) | Dust Fall Opening (Outer Diameter) | Silica | PM 2.5 | Dustfall | $NO_2$ | $SO_2$ | VOC | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 22002486 Teardrop PM 2.5 March 29 | 22.95 | 16.6 | March 29 2023 | | | | | X | | | | | | | | | |
| 20204327 Tote PM 2.5 March 8 | 24.02 | 16.7 | March 8 2023 | | | | | X | | | | | | | | | |
| 21903023 Tote PM 2.5 April 1 | 24.02 | 16.7 | April 1 2023 | | | | | X | | | | | | | | | |
| 22002487 Tote PM 2.5 March 29 | 24.03 | 16.7 | March 29 2023 | | | | | X | | | | | | | | | |
| 21903024 Tote PM 2.5 March 14 | 24.02 | 16.7 | March 14 2023 | | | | | X | | | | | | | | | |
| 22001503 Tote PM 2.5 March 21 | 24.03 | 16.7 | March 21 2023 | | | | | X | | | | | | | | | |
| 1415674 Tote PM 2.5 February 17 | 24.03 | 16.7 | Feb 7 2023 | | | | | X | | | | | | | | | |
| 20204312 Tote PM 2.5 March 17 | 24.05 | 16.7 | March 17 2023 | | | | | X | | | | | | | | | |
| 22001173 Tote PM 2.5 March 11 | 24.02 | 16.7 | March 11 2023 | | | | | X | | | | | | | | | |
| 1415676 Tote PM 2.5 March 2 | 24.02 | 16.7 | March 2 2023 | | | | | X | | | | | | | | | |
| 1415682 Tote PM 2.5 February 28 | 24.02 | 16.7 | Feb 28 2023 | | | | | X | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com; emily.meek@kinross.com***

Client Signature:
Affiliation:
Date/Time:

Received by: Ashley Lefebvre
Affiliation: BVLabs Timmins
Date/Time: 2023/04/13 09:13

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at*

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/04/24**
Report #: R7599993
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3A3210**
**Received: 2023/04/13, 09:13**

Sample Matrix: Filter
# Samples Received: 10

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Particulate Calculation | 10 | N/A | 2023/04/24 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate | 10 | N/A | 2023/04/19 | BRL SOP-00109 | Mthd IO-3-1 |
| Air Volume from LoVol Sampling | 10 | N/A | 2023/04/13 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/04/24**
Report #: R7599993
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3A3210**
**Received: 2023/04/13, 09:13**

Encryption Key

Cristina (Maria) Bacchus
Project Manager
24 Apr 2023 19:30:56

Please direct all questions regarding this Certificate of Analysis to:
Marinela Sim, Project Manager
Email: Marinela.Sim@bureauveritas.com
Phone# (905)817-5828

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C3A3210
Report Date: 2023/04/24

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | VNQ712 | VNQ713 | VNQ714 | VNQ715 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/02/07 | 2023/02/09 | 2023/03/11 | 2023/03/17 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | 1415675 TEARDROP PM 2.5 FENRUARY 7 | 1415672 TEARDROP PM 2.5 FEBRUARY 9 | 21903022 TEARDROP PM 2.5 MARCH 11 | 20204316 TEARDROP PM 2.5 MARCH 17 | RDL | QC Batch |
| Particulate | ug/m3 | 8.5 | 4.1 | 3.5 | 5.4 | 1.2 | 8606958 |
| Particulate Weight on Filter | ug | 205 | 99 | 84 | 131 | 30 | 8624505 |
| Volume | m3 | 24.05 | 24.05 | 24.05 | 24.05 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

| Bureau Veritas ID | | VNQ716 | VNQ717 | VNQ718 | VNQ719 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/03/21 | 2023/02/14 | 2023/02/28 | 2023/03/14 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | 22001504 TEARDROP PM 2.5 MARCH 21 | 1415681 TEARDROP PM 2.5 FEBRUARY 14 | 1415683 TEARDROP PM 2.5 FEBRUARY 28 | 22001174 TEARDROP PM 2.5 MARCH 14 | RDL | QC Batch |
| Particulate | ug/m3 | 2.5 | <1.2 | 4.9 | 7.1 | 1.2 | 8606958 |
| Particulate Weight on Filter | ug | 61 | <30 | 119 | 170 | 30 | 8624505 |
| Volume | m3 | 24.05 | 24.05 | 24.05 | 24.05 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

| Bureau Veritas ID | | VNQ720 | VNQ721 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2023/03/02 | 2023/03/08 | | |
| COC Number | | n/a | n/a | | |
| | UNITS | 20204321 TEARDROP PM 2.5 MARCH 2 | 20204320 TEARDROP PM 2.5 MARCH 8 | RDL | QC Batch |
| Particulate | ug/m3 | 6.6 | 5.8 | 1.2 | 8606958 |
| Particulate Weight on Filter | ug | 159 | 140 | 30 | 8624505 |
| Volume | m3 | 24.05 | 24.05 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3A3210
Report Date: 2023/04/24

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** VNQ712 **Collected:** 2023/02/07
**Sample ID:** 1415675 TEARDROP PM 2.5 FENRUARY 7 **Shipped:**
**Matrix:** Filter **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8606958 | N/A | 2023/04/24 | Automated Statchk |
| Total Particulate | BAL | 8624505 | N/A | 2023/04/19 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/04/13 | Prabhdeep Kaur |

**Bureau Veritas ID:** VNQ713 **Collected:** 2023/02/09
**Sample ID:** 1415672 TEARDROP PM 2.5 FEBRUARY 9 **Shipped:**
**Matrix:** Filter **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8606958 | N/A | 2023/04/24 | Automated Statchk |
| Total Particulate | BAL | 8624505 | N/A | 2023/04/19 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/04/13 | Prabhdeep Kaur |

**Bureau Veritas ID:** VNQ714 **Collected:** 2023/03/11
**Sample ID:** 21903022 TEARDROP PM 2.5 MARCH 11 **Shipped:**
**Matrix:** Filter **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8606958 | N/A | 2023/04/24 | Automated Statchk |
| Total Particulate | BAL | 8624505 | N/A | 2023/04/19 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/04/13 | Prabhdeep Kaur |

**Bureau Veritas ID:** VNQ715 **Collected:** 2023/03/17
**Sample ID:** 20204316 TEARDROP PM 2.5 MARCH 17 **Shipped:**
**Matrix:** Filter **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8606958 | N/A | 2023/04/24 | Automated Statchk |
| Total Particulate | BAL | 8624505 | N/A | 2023/04/19 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/04/13 | Prabhdeep Kaur |

**Bureau Veritas ID:** VNQ716 **Collected:** 2023/03/21
**Sample ID:** 22001504 TEARDROP PM 2.5 MARCH 21 **Shipped:**
**Matrix:** Filter **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8606958 | N/A | 2023/04/24 | Automated Statchk |
| Total Particulate | BAL | 8624505 | N/A | 2023/04/19 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/04/13 | Prabhdeep Kaur |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## TEST SUMMARY

**Bureau Veritas ID:** VNQ717 **Collected:** 2023/02/14
**Sample ID:** 1415681 TEARDROP PM 2.5 FEBRUARY 14 **Shipped:**
**Matrix:** Filter **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8606958 | N/A | 2023/04/24 | Automated Statchk |
| Total Particulate | BAL | 8624505 | N/A | 2023/04/19 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/04/13 | Prabhdeep Kaur |

**Bureau Veritas ID:** VNQ718 **Collected:** 2023/02/28
**Sample ID:** 1415683 TEARDROP PM 2.5 FEBRUARY 28 **Shipped:**
**Matrix:** Filter **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8606958 | N/A | 2023/04/24 | Automated Statchk |
| Total Particulate | BAL | 8624505 | N/A | 2023/04/19 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/04/13 | Prabhdeep Kaur |

**Bureau Veritas ID:** VNQ719 **Collected:** 2023/03/14
**Sample ID:** 22001174 TEARDROP PM 2.5 MARCH 14 **Shipped:**
**Matrix:** Filter **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8606958 | N/A | 2023/04/24 | Automated Statchk |
| Total Particulate | BAL | 8624505 | N/A | 2023/04/19 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/04/13 | Prabhdeep Kaur |

**Bureau Veritas ID:** VNQ720 **Collected:** 2023/03/02
**Sample ID:** 20204321 TEARDROP PM 2.5 MARCH 2 **Shipped:**
**Matrix:** Filter **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8606958 | N/A | 2023/04/24 | Automated Statchk |
| Total Particulate | BAL | 8624505 | N/A | 2023/04/19 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/04/13 | Prabhdeep Kaur |

**Bureau Veritas ID:** VNQ721 **Collected:** 2023/03/08
**Sample ID:** 20204320 TEARDROP PM 2.5 MARCH 8 **Shipped:**
**Matrix:** Filter **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8606958 | N/A | 2023/04/24 | Automated Statchk |
| Total Particulate | BAL | 8624505 | N/A | 2023/04/19 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/04/13 | Prabhdeep Kaur |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

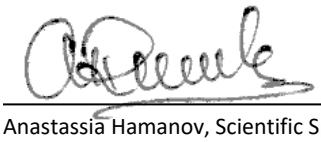
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3A3210
Report Date: 2023/04/24

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

CAM FCD-01302 /3

6740 Campobello Rd
Mississauga Ontario ,L5N 2L8
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:

**SECTION**

Sampled by: JM + CR + AP

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening (Inner Diameter) | Dust Fall Opening (Outer Diameter) | Silica | PM 2.5 | Dustfall | $NO_2$ | $SO_2$ | VOC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1415675 Teardrop PM 2.5 February 7 | 24.05 | 16.7 | Feb 7 2023 | 8-Feb | | | | X | | | | |
| 1415672 Teardrop PM 2.5 February 9 | 24.05 | 16.7 | Feb 9 2023 | 9-Feb | | | | X | | | | |
| 21903022 Teardrop PM 2.5 March 11 | 24.05 | 16.7 | March 11 2023 | 13-Mar | | | | X | | | | |
| 20204316 Teardrop PM 2.5 March 17 | 24.05 | 16.7 | March 17 2023 | 20-Mar | | | | X | | | | |
| 22001504 Teardrop PM 2.5 March 21 | 24.05 | 16.7 | March 21 2023 | 22-Mar | | | | X | | | | |
| 1415681 Teardrop PM 2.5 February 14 | 24.05 | 16.7 | Feb 14 2023 | 15-Feb | | | | X | | | | |
| 1415683 Teardrop PM 2.5 February 28 | 24.05 | 16.7 | Feb 28 2023 | 1-Mar | | | | X | | | | |
| 22001174 Teardrop PM 2.5 March 14 | 24.05 | 16.7 | March 14 2023 | 15-Mar | | | | X | | | | |
| 20204321 Teardrop PM 2.5 March 2 | 24.05 | 16.7 | March 2 2023 | 3-Mar | | | | X | | | | |
| 20204320 Teardrop PM 2.5 March 8 | 24.05 | 16.7 | March 8 2023 | 9-Mar | | | | X | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

13-Apr-23 09:13
Gina Baybayan
C3A3210
RPK AIR-RmTmp

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com; emily.meek@kinross.com***

Client Signature:
Affiliation:
Date/Time:

Received by: See Page 1 Ashlie Sukkumar ASHLIE SUKKUMAR
Affiliation:
Date/Time: 2023/04/13 09:13

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at*

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/05/17**
Report #: R7633012
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3D0910**
**Received: 2023/05/09, 09:05**

Sample Matrix: Filter
# Samples Received: 6

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Particulate Calculation | 6 | N/A | 2023/05/17 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate | 6 | N/A | 2023/05/16 | BRL SOP-00109 | Mthd IO-3-1 |
| Air Volume from LoVol Sampling | 6 | N/A | 2023/05/09 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/05/17**
Report #: R7633012
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3D0910**
**Received: 2023/05/09, 09:05**

Encryption Key

Cristina (Maria) Bacchus
Project Manager
17 May 2023 17:11:01

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Bureau Veritas Job #: C3D0910
Report Date: 2023/05/17

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | VTJ426 | VTJ427 | VTJ428 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2023/04/29 00:00 | 2023/04/29 00:00 | 2023/04/26 00:00 | | |
| COC Number | | n/a | n/a | n/a | | |
| | UNITS | 22002482 APRIL 29 TOTE | 20204317 APRIL 29 TD | 20204322 APRIL 26 TD | RDL | QC Batch |
| Particulate | ug/m3 | 2.4 | 3.5 | 5.3 | 1.2 | 8654873 |
| Particulate Weight on Filter | ug | 58 | 84 | 128 | 30 | 8670265 |
| Volume | m3 | 24.03 | 24.05 | 24.05 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

| Bureau Veritas ID | | VTJ429 | VTJ430 | VTJ431 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2023/04/26 00:00 | 2023/04/23 00:00 | 2023/04/23 00:00 | | |
| COC Number | | n/a | n/a | n/a | | |
| | UNITS | 20204323 APRIL 26 TOTE | 20204329 APRIL 23 TOTE | 20204328 APRIL 23 TD | RDL | QC Batch |
| Particulate | ug/m3 | 4.2 | 5.2 | 3.3 | 1.2 | 8654873 |
| Particulate Weight on Filter | ug | 101 | 126 (1) | 80 | 30 | 8670265 |
| Volume | m3 | 24.02 | 24.08 | 24.01 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) Filter was found torn



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3D0910
Report Date: 2023/05/17

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** VTJ426
**Sample ID:** 22002482 APRIL 29 TOTE
**Matrix:** Filter

**Collected:** 2023/04/29
**Shipped:**
**Received:** 2023/05/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8654873 | N/A | 2023/05/17 | Automated Statchk |
| Total Particulate | BAL | 8670265 | N/A | 2023/05/16 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/05/09 | Prabhdeep Kaur |

**Bureau Veritas ID:** VTJ427
**Sample ID:** 20204317 APRIL 29 TD
**Matrix:** Filter

**Collected:** 2023/04/29
**Shipped:**
**Received:** 2023/05/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8654873 | N/A | 2023/05/17 | Automated Statchk |
| Total Particulate | BAL | 8670265 | N/A | 2023/05/16 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/05/09 | Prabhdeep Kaur |

**Bureau Veritas ID:** VTJ428
**Sample ID:** 20204322 APRIL 26 TD
**Matrix:** Filter

**Collected:** 2023/04/26
**Shipped:**
**Received:** 2023/05/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8654873 | N/A | 2023/05/17 | Automated Statchk |
| Total Particulate | BAL | 8670265 | N/A | 2023/05/16 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/05/09 | Prabhdeep Kaur |

**Bureau Veritas ID:** VTJ429
**Sample ID:** 20204323 APRIL 26 TOTE
**Matrix:** Filter

**Collected:** 2023/04/26
**Shipped:**
**Received:** 2023/05/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8654873 | N/A | 2023/05/17 | Automated Statchk |
| Total Particulate | BAL | 8670265 | N/A | 2023/05/16 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/05/09 | Prabhdeep Kaur |

**Bureau Veritas ID:** VTJ430
**Sample ID:** 20204329 APRIL 23 TOTE
**Matrix:** Filter

**Collected:** 2023/04/23
**Shipped:**
**Received:** 2023/05/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8654873 | N/A | 2023/05/17 | Automated Statchk |
| Total Particulate | BAL | 8670265 | N/A | 2023/05/16 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/05/09 | Prabhdeep Kaur |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3D0910
Report Date: 2023/05/17

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** VTJ431
**Sample ID:** 20204328 APRIL 23 TD
**Matrix:** Filter

**Collected:** 2023/04/23
**Shipped:**
**Received:** 2023/05/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8654873 | N/A | 2023/05/17 | Automated Statchk |
| Total Particulate | BAL | 8670265 | N/A | 2023/05/16 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/05/09 | Prabhdeep Kaur |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



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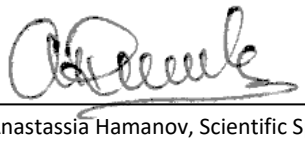
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3D0910
Report Date: 2023/05/17

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Gina Baybayan

C3D0910

RPK AIR-RmTmp

CAM FCD-01302 /3

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR

Page ____ of ____

**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM + CR

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening (Inner Diameter) | Dust Fall Opening (Outer Diameter) | Silica | PM #0 2.5 | Dustfall | $NO_2$ | $SO_2$ | VOC | TSP | Metals | Mercury |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W2200248 2 April 29 Tote | 24.03 | 16.7 | April 29 | 00:00 | | | | ✓ | | | | | | | |
| 2202043 17 April 29 TD | 24.05 | 16.7 | April 29 | 00:00 | | | | ✓ | | | | | | | |
| 2202043 22 April 26 TD | 24.05 | 16.7 | April 26 | 00:00 | | | | ✓ | | | | | | | |
| 2202043 03 April 26 Tote | 24.08 | 16.7 | April 26 | 00:00 | | | | ✓ | | | | | | | |
| 2202043 29 April 23 Tote | 24.05 | 16.7 | April 23 | 00:00 | | | | ✓ | | | | | | | |
| 2202043 08 April 23 TD | 24.01 | 16.7 | April 23 | 00:00 | | | | ✓ | | | | | | | |
| Hi Vol Quartz 22120842 BT Apr 7 | | | Apr 7 | | | | | | | | | | X | X | X |
| Hi Vol Quartz 22111429 BT Apr 13 | | | Apr 13 | | | | | | | | | | X | X | X |
| Hi Vol Quartz 22120840 BT Apr 19 | | | Apr 19 | | | | | | | | | | X | X | X |
| Hi Vol Quartz 22120841 BT Apr 26 | | | Apr 26 | | | | | | | | | | X | X | X |
| Hi Vol Quartz 22021321 BT May 2 | | | May 2 | | | | | | | | | | X | X | X |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Jade Browne

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com***

Client Signature: [signature]
Affiliation: Kinross
Date/Time: May 4, 2023

Received by: [signature] / MUSKAN
Affiliation:
Date/Time: 2023/05/09 09 05

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at*

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/05/18**
Report #: R7635122
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3D0932**
**Received: 2023/05/09, 09:05**

Sample Matrix: Filter
# Samples Received: 13

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Particulate Calculation | 11 | N/A | 2023/05/18 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate | 11 | N/A | 2023/05/17 | BRL SOP-00109 | Mthd IO-3-1 |
| Subcontracting from AT-AMB to BV Novi (1) | 2 | N/A | N/A | | Subcontracting |
| Air Volume from LoVol Sampling | 11 | N/A | 2023/05/09 | | |

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
(1) This test was performed by Bureau Veritas (Novi), 22345 Roethal Dr. , Novi, MI, 48375

Encryption Key

Cristina (Maria) Bacchus
Project Manager
18 May 2023 18:39:16

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

This report has been generated and distributed using a secure automated process.
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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3D0932
Report Date: 2023/05/18

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | VTJ540 | VTJ541 | VTJ542 | VTJ543 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/04/04 00:00 | 2023/04/08 00:00 | 2023/04/10 00:00 | 2023/04/19 00:00 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | W22001502 APR 4 TR | WC1415839 APR 8 TD | W22001501 APR 10 TD | WC1415843 APR 19 TR | RDL | QC Batch |
| Particulate | ug/m3 | 3.6 | 3.9 | 7.3 | 3.4 | 1.2 | 8654873 |
| Particulate Weight on Filter | ug | 87 | 94 (1) | 175 | 82 | 30 | 8672418 |
| Volume | m3 | 24.02 | 24.05 | 24.05 | 24.01 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) Filter is found torn

| Bureau Veritas ID | | VTJ544 | VTJ545 | VTJ546 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2023/04/13 00:00 | 2023/04/19 00:00 | 2023/04/08 00:00 | | |
| COC Number | | n/a | n/a | n/a | | |
| | UNITS | W22001505 APR 13 TD | WC1415838 APR 19 TD | WC1415840 APR 8 TR | RDL | QC Batch |
| Particulate | ug/m3 | 3.3 | 4.5 | 3.1 | 1.2 | 8654873 |
| Particulate Weight on Filter | ug | 79 | 109 | 74 | 30 | 8672418 |
| Volume | m3 | 24.05 | 24.05 | 24.02 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3D0932
Report Date: 2023/05/18

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | VTJ547 | | VTJ548 | VTJ549 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/05/02 00:00 | | 2023/04/13 00:00 | 2023/04/10 00:00 | | |
| COC Number | | n/a | | n/a | n/a | | |
| | UNITS | 23032004 MAY 2 TD | QC Batch | W22001175 APR 13 TR | W21903025 APR 10 TR | RDL | QC Batch |
| Particulate | ug/m3 | | | 3.4 | 5.3 | 1.2 | 8654873 |
| Particulate Weight on Filter | ug | | | 81 | 128 | 30 | 8672418 |
| Volume | m3 | | | 24.02 | 24.02 | N/A | ONSITE |
| **Subcontracted Analysis** | | | | | | | |
| Subcontract Parameter | N/A | ATTACHED | 8667841 | | | | |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

| Bureau Veritas ID | | VTJ550 | | | VTJ551 | | VTJ552 | | |
|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/04/16 00:00 | | | 2023/04/04 00:00 | | 2023/05/02 00:00 | | |
| COC Number | | n/a | | | n/a | | n/a | | |
| | UNITS | W22002499 APR 16 TD | RDL | QC Batch | 23032014 APR 4 TD | QC Batch | W22002497 MAY 2 TR | RDL | QC Batch |
| Particulate | ug/m3 | 4.6 | 1.2 | 8654873 | | | 6.3 | 2.9 | 8654873 |
| Particulate Weight on Filter | ug | 111 | 30 | 8672418 | | | 65 | 30 | 8672418 |
| Volume | m3 | 24.05 | N/A | ONSITE | | | 10.35 | N/A | ONSITE |
| **Subcontracted Analysis** | | | | | | | | | |
| Subcontract Parameter | N/A | | | | ATTACHED | 8667841 | | | |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



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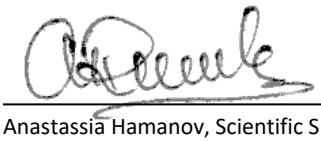
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3D0932
Report Date: 2023/05/18

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

Jade Browne, Project Manager Assistant - Air

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/08/03**
Report #: R7749069
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3K2199**
**Received: 2023/07/10, 09:00**

Sample Matrix: Filter
# Samples Received: 11

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | 5 | N/A | 2023/07/19 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate (PM10) | 5 | N/A | 2023/07/13 | BRL SOP-00109 | Mthd IO-3-1 |
| Particulate Calculation | 6 | N/A | 2023/07/19 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate | 6 | N/A | 2023/07/17 | BRL SOP-00109 | Mthd IO-3-1 |
| Subcontracting from AT-AMB to BV Novi (1) | 1 | N/A | N/A | | Subcontracting |
| Air Volume from LoVol Sampling | 11 | N/A | 2023/07/10 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCCFP, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
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Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas (Novi), 22345 Roethal Dr. , Novi, MI, 48375

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/08/03**
Report #: R7749069
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3K2199**
**Received: 2023/07/10, 09:00**

Encryption Key

Jade Browne
Project Manager Assistant - Air
03 Aug 2023 16:33:49

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3K2199
Report Date: 2023/08/03

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | WIJ100 | WIJ101 | WIJ102 | WIJ103 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/06/02 14:00 | 2023/06/10 13:00 | 2023/06/16 10:30 | 2023/06/23 11:00 | | |
| | UNITS | TEARDROP JUNE 2 22000316 PM 10 | TEARDROP JUNE 10 23758052 PM 10 | TEARDROP JUNE 16 23758053 PM 10 | TEARDROP JUNE 23 23758796 PM 10 | RDL | QC Batch |
| PM 10 Particulate | ug/m3 | 16.7 | 4.9 | 24.0 | 10.2 | 1.2 | 8779448 |
| Particulate Weight on Filter | ug | 402 | 118 | 577 | 247 | 30 | 8798358 |
| Volume | m3 | 24.05 | 24.05 | 24.05 | 24.05 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

| Bureau Veritas ID | | WIJ104 | | WIJ105 | WIJ106 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/06/29 10:50 | | 2023/06/02 14:50 | 2023/06/04 14:20 | | |
| | UNITS | TEARDROP JUNE 29 23032013 47 MM PVC | QC Batch | TOTE ROAD JUNE 2 22000315 PM 2.5 | TOTE ROAD JUNE 4 22000317 PM 2.5 | RDL | QC Batch |
| Particulate | ug/m3 | N/A | 8779449 | 9.6 | 8.8 | 1.2 | 8779449 |
| PM 10 Particulate | ug/m3 | 11.9 | 8779448 | N/A | N/A | 1.2 | 8779448 |
| Particulate Weight on Filter | ug | 287 | 8798358 | 231 | 211 | 30 | 8798282 |
| Volume | m3 | 24.05 | ONSITE | 24.01 | 24.01 | N/A | ONSITE |
| **Subcontracted Analysis** | | | | | | | |
| Subcontract Parameter | N/A | ATTACHED | 8832166 | N/A | N/A | N/A | N/A |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3K2199
Report Date: 2023/08/03

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | WIJ107 | WIJ108 | WIJ109 | WIJ110 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/06/10 14:30 | 2023/06/16 12:00 | 2023/06/23 12:20 | 2023/06/29 11:40 | | |
| | UNITS | TOTE ROAD JUNE 10 23758051 PM 2.5 | TOTE ROAD JUNE 16 23758054 PM 2.5 | TOTE ROAD JUNE 23 23758795 PM 2.5 | TOTE ROAD JUNE 29 23758797 PM 2.5 | RDL | QC Batch |
| Particulate | ug/m3 | 8.6 | 17.2 | 6.1 | 9.9 | 1.2 | 8779449 |
| Particulate Weight on Filter | ug | 206 | 412 | 147 | 239 | 30 | 8798282 |
| Volume | m3 | 24.02 | 24.01 | 24.01 | 24.02 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3K2199
Report Date: 2023/08/03

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** WIJ100 **Collected:** 2023/06/02
**Sample ID:** TEARDROP JUNE 2 22000316 PM 10 **Shipped:**
**Matrix:** Filter **Received:** 2023/07/10

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 8779448 | N/A | 2023/07/19 | Automated Statchk |
| Total Particulate (PM10) | BAL | 8798358 | N/A | 2023/07/13 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/07/10 | David King-Nam Chan |

**Bureau Veritas ID:** WIJ101 **Collected:** 2023/06/10
**Sample ID:** TEARDROP JUNE 10 23758052 PM 10 **Shipped:**
**Matrix:** Filter **Received:** 2023/07/10

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 8779448 | N/A | 2023/07/19 | Automated Statchk |
| Total Particulate (PM10) | BAL | 8798358 | N/A | 2023/07/13 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/07/10 | David King-Nam Chan |

**Bureau Veritas ID:** WIJ102 **Collected:** 2023/06/16
**Sample ID:** TEARDROP JUNE 16 23758053 PM 10 **Shipped:**
**Matrix:** Filter **Received:** 2023/07/10

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 8779448 | N/A | 2023/07/19 | Automated Statchk |
| Total Particulate (PM10) | BAL | 8798358 | N/A | 2023/07/13 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/07/10 | David King-Nam Chan |

**Bureau Veritas ID:** WIJ103 **Collected:** 2023/06/23
**Sample ID:** TEARDROP JUNE 23 23758796 PM 10 **Shipped:**
**Matrix:** Filter **Received:** 2023/07/10

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 8779448 | N/A | 2023/07/19 | Automated Statchk |
| Total Particulate (PM10) | BAL | 8798358 | N/A | 2023/07/13 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/07/10 | David King-Nam Chan |

**Bureau Veritas ID:** WIJ104 **Collected:** 2023/06/29
**Sample ID:** TEARDROP JUNE 29 23032013 47 MM PVC **Shipped:**
**Matrix:** Filter **Received:** 2023/07/10

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 8779448 | N/A | 2023/07/19 | Automated Statchk |
| Total Particulate (PM10) | BAL | 8798358 | N/A | 2023/07/13 | Nancy Dhir |
| Subcontracting from AT-AMB to BV Novi | | 8832166 | N/A | | Jade Browne |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/07/10 | David King-Nam Chan |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3K2199
Report Date: 2023/08/03

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** WIJ105 **Collected:** 2023/06/02
**Sample ID:** TOTE ROAD JUNE 2 22000315 PM 2.5 **Shipped:**
**Matrix:** Filter **Received:** 2023/07/10

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8779449 | N/A | 2023/07/19 | Automated Statchk |
| Total Particulate | BAL | 8798282 | N/A | 2023/07/17 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/07/10 | David King-Nam Chan |

**Bureau Veritas ID:** WIJ106 **Collected:** 2023/06/04
**Sample ID:** TOTE ROAD JUNE 4 22000317 PM 2.5 **Shipped:**
**Matrix:** Filter **Received:** 2023/07/10

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8779449 | N/A | 2023/07/19 | Automated Statchk |
| Total Particulate | BAL | 8798282 | N/A | 2023/07/17 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/07/10 | David King-Nam Chan |

**Bureau Veritas ID:** WIJ107 **Collected:** 2023/06/10
**Sample ID:** TOTE ROAD JUNE 10 23758051 PM 2.5 **Shipped:**
**Matrix:** Filter **Received:** 2023/07/10

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8779449 | N/A | 2023/07/19 | Automated Statchk |
| Total Particulate | BAL | 8798282 | N/A | 2023/07/17 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/07/10 | David King-Nam Chan |

**Bureau Veritas ID:** WIJ108 **Collected:** 2023/06/16
**Sample ID:** TOTE ROAD JUNE 16 23758054 PM 2.5 **Shipped:**
**Matrix:** Filter **Received:** 2023/07/10

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8779449 | N/A | 2023/07/19 | Automated Statchk |
| Total Particulate | BAL | 8798282 | N/A | 2023/07/17 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/07/10 | David King-Nam Chan |

**Bureau Veritas ID:** WIJ109 **Collected:** 2023/06/23
**Sample ID:** TOTE ROAD JUNE 23 23758795 PM 2.5 **Shipped:**
**Matrix:** Filter **Received:** 2023/07/10

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8779449 | N/A | 2023/07/19 | Automated Statchk |
| Total Particulate | BAL | 8798282 | N/A | 2023/07/17 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/07/10 | David King-Nam Chan |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3K2199
Report Date: 2023/08/03

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** WIJ110
**Sample ID:** TOTE ROAD JUNE 29 23758797 PM 2.5
**Matrix:** Filter

**Collected:** 2023/06/29
**Shipped:**
**Received:** 2023/07/10

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8779449 | N/A | 2023/07/19 | Automated Statchk |
| Total Particulate | BAL | 8798282 | N/A | 2023/07/17 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/07/10 | David King-Nam Chan |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



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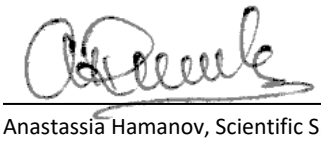
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3K2199
Report Date: 2023/08/03

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

Jade Browne, Project Manager Assistant - Air

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

10-Jul-23 09:00

Gina Baybayan

C3K2199

CAM FCD-01302 /3

AJH AIR-RmTmp

BUREAU VERITAS

obello Rd
a Ontario ,L5N 2L8
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

## CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM + CB + EM

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening (Inner Diameter) | Dust Fall Opening (Outer Diameter) | Silica | PM 10 | PM 2.5 | Dustfall | $NO_2$ | $SO_2$ | VOC | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Teardrop June 2 22000316 PM 10 | 24.05 | 16.7 | 2-Jun | 14:00 | | | | X | | | | | | | | | |
| Teardrop June 10 23758052 PM 10 | 24.05 | 16.7 | 10-Jun | 13:00 | | | | X | | | | | | | | | |
| Teardrop June 16 23758053 PM 10 | 24.05 | 16.7 | 16-Jun | 10:30:00 | | | | X | | | | | | | | | |
| Teardrop June 23 23758796 PM 10 | 24.05 | 16.7 | 23-Jun | 11:00 | | | | X | | | | | | | | | |
| Teardrop June 29 23032013 47 mm PVC | 24.05 | 16.7 | 29-Jun | 10:50 | | | X | X | | | | | | | | | |
| Tote Road June 2 22000315 PM 2.5 | 24.01 | 16.7 | 2-Jun | 14:50 | | | | | X | | | | | | | | |
| Tote Road June 4 22000317 PM 2.5 | 24.01 | 16.7 | 4-Jun | 14:20 | | | | | X | | | | | | | | |
| Tote Road June 10 23758051 PM 2.5 | 24.02 | 16.7 | 10-Jun | 14:30 | | | | | X | | | | | | | | |
| Tote Road June 16 23758054 PM 2.5 | 24.01 | 16.7 | 16-Jun | 12:00 | | | | | X | | | | | | | | |
| Tote Road June 23 23758795 PM 2.5 | 24.01 | 16.7 | 23-Jun | 12:20 | | | | | X | | | | | | | | |
| Tote Road June 29 23758797 PM 2.5 | 24.02 | 16.7 | 29-Jun | 11:40 | | | | | X | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2003.2023D.100
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Jade Browne

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com; emily.meek@kinross.com; aaron.peloquin@kinross.com; curtis.bloemberg@kinross.com***

Client Signature: Jacob McFee
Affiliation: Kinross
Date/Time: July 4 2023 / 7:00

Received by:
Affiliation:
Date/Time: 23/07/10 09:00

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Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/08/03**
Report #: R7749069
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3K2199**
**Received: 2023/07/10, 09:00**

Sample Matrix: Filter
# Samples Received: 11

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | 5 | N/A | 2023/07/19 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate (PM10) | 5 | N/A | 2023/07/13 | BRL SOP-00109 | Mthd IO-3-1 |
| Particulate Calculation | 6 | N/A | 2023/07/19 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate | 6 | N/A | 2023/07/17 | BRL SOP-00109 | Mthd IO-3-1 |
| Subcontracting from AT-AMB to BV Novi (1) | 1 | N/A | N/A | | Subcontracting |
| Air Volume from LoVol Sampling | 11 | N/A | 2023/07/10 | | |

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
(1) This test was performed by Bureau Veritas (Novi), 22345 Roethal Dr. , Novi, MI, 48375

Encryption Key

Jade Browne
Project Manager Assistant - Air
03 Aug 2023 16:33:52

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Bureau Veritas Job #: C3K2199
Report Date: 2023/08/03

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | WIJ100 | WIJ101 | WIJ102 | WIJ103 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/06/02 14:00 | 2023/06/10 13:00 | 2023/06/16 10:30 | 2023/06/23 11:00 | | |
| | UNITS | TEARDROP JUNE 2 22000316 PM 10 | TEARDROP JUNE 10 23758052 PM 10 | TEARDROP JUNE 16 23758053 PM 10 | TEARDROP JUNE 23 23758796 PM 10 | RDL | QC Batch |
| PM 10 Particulate | ug/m3 | 16.7 | 4.9 | 24.0 | 10.2 | 1.2 | 8779448 |
| Particulate Weight on Filter | ug | 402 | 118 | 577 | 247 | 30 | 8798358 |
| Volume | m3 | 24.05 | 24.05 | 24.05 | 24.05 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

| Bureau Veritas ID | | WIJ104 | | | WIJ105 | WIJ106 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/06/29 10:50 | | | 2023/06/02 14:50 | 2023/06/04 14:20 | | |
| | UNITS | TEARDROP JUNE 29 23032013 47 MM PVC | RDL | QC Batch | TOTE ROAD JUNE 2 22000315 PM 2.5 | TOTE ROAD JUNE 4 22000317 PM 2.5 | RDL | QC Batch |
| Particulate | ug/m3 | | | | 9.6 | 8.8 | 1.2 | 8779449 |
| PM 10 Particulate | ug/m3 | 11.9 | 1.2 | 8779448 | | | | |
| Particulate Weight on Filter | ug | 287 | 30 | 8798358 | 231 | 211 | 30 | 8798282 |
| Volume | m3 | 24.05 | N/A | ONSITE | 24.01 | 24.01 | N/A | ONSITE |
| **Subcontracted Analysis** | | | | | | | | |
| Subcontract Parameter | N/A | ATTACHED | N/A | 8832166 | | | | |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3K2199
Report Date: 2023/08/03

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | WIJ107 | WIJ108 | WIJ109 | WIJ110 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/06/10 14:30 | 2023/06/16 12:00 | 2023/06/23 12:20 | 2023/06/29 11:40 | | |
| | UNITS | TOTE ROAD JUNE 10 23758051 PM 2.5 | TOTE ROAD JUNE 16 23758054 PM 2.5 | TOTE ROAD JUNE 23 23758795 PM 2.5 | TOTE ROAD JUNE 29 23758797 PM 2.5 | RDL | QC Batch |
| Particulate | ug/m3 | 8.6 | 17.2 | 6.1 | 9.9 | 1.2 | 8779449 |
| Particulate Weight on Filter | ug | 206 | 412 | 147 | 239 | 30 | 8798282 |
| Volume | m3 | 24.02 | 24.01 | 24.01 | 24.02 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3K2199
Report Date: 2023/08/03

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

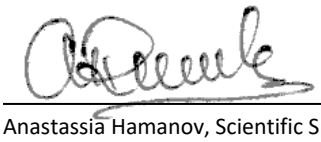
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3K2199
Report Date: 2023/08/03

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

Jade Browne, Project Manager Assistant - Air

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/09/20**
Report #: R7822905
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3R5425**
**Received: 2023/09/08, 09:04**

Sample Matrix: Filter
# Samples Received: 10

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Particulate Calculation | 10 | N/A | 2023/09/14 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate | 10 | N/A | 2023/09/13 | BRL SOP-00109 | Mthd IO-3-1 |
| Subcontracting from AT-AMB to BV Novi (1) | 1 | N/A | N/A | | Subcontracting |
| Air Volume from LoVol Sampling | 10 | N/A | 2023/09/08 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCCFP, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas (Novi), 22345 Roethal Dr. , Novi, MI, 48375

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/09/20**
Report #: R7822905
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3R5425**
**Received: 2023/09/08, 09:04**

Encryption Key

Cristina (Maria) Bacchus
Project Manager
20 Sep 2023 18:44:01

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3R5425
Report Date: 2023/09/20

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | WXW693 | WXW694 | WXW695 | WXW696 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/08/05 | 2023/08/10 | 2023/08/17 | 2023/08/22 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | TEARDROP AUG 4 23032003 47 MM | TEARDROP AUG 10 23758132 PM 2.5 | TEARDROP AUG 16 23758135 PM 2.5 | TEARDROP AUG 22 23758127 PM 2.5 | RDL | QC Batch |
| | | | | | | | |
| Particulate | ug/m3 | 16.9 | 6.7 | 73.7 | 16.3 | 1.2 | 8904738 |
| Particulate Weight on Filter | ug | 407 | 162 | 1770 | 393 | 30 | 8916456 |
| Volume | m3 | 24.05 | 24.05 | 24.05 | 24.05 | N/A | ONSITE |
| **Subcontracted Analysis** | | | | | | | |
| Subcontract Parameter | N/A | ATTACHED | N/A | N/A | N/A | N/A | 8929835 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

| Bureau Veritas ID | | WXW697 | WXW698 | WXW699 | WXW700 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/08/28 | 2023/08/05 | 2023/08/10 | 2023/08/17 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | TEARDROP AUG 28 23758130 PM 2.5 | TOTE AUG 4 237758800 PM 2.5 | TOTE AUG 10 237758126 PM 2.5 | TOTE AUG 16 237758137 PM 2.5 | RDL | QC Batch |
| | | | | | | | |
| Particulate | ug/m3 | 10.7 | 15.6 | 4.1 | 71.8 | 1.2 | 8904738 |
| Particulate Weight on Filter | ug | 259 | 375 | 100 | 1730 | 30 | 8916456 |
| Volume | m3 | 24.05 | 24.01 | 24.01 | 24.01 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

| Bureau Veritas ID | | WXW701 | WXW702 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2023/08/22 | 2023/08/28 | | |
| COC Number | | n/a | n/a | | |
| | UNITS | TOTE AUG 22 237758128 PM 2.5 | TOTE AUG 28 237758136 PM 2.5 | RDL | QC Batch |
| | | | | | |
| Particulate | ug/m3 | 11.4 | 7.3 | 1.2 | 8904738 |
| Particulate Weight on Filter | ug | 274 | 175 | 30 | 8916456 |
| Volume | m3 | 24.03 | 24.02 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3R5425
Report Date: 2023/09/20

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** WXW693 **Collected:** 2023/08/05
**Sample ID:** TEARDROP AUG 4 23032003 47 MM **Shipped:**
**Matrix:** Filter **Received:** 2023/09/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8904738 | N/A | 2023/09/14 | Automated Statchk |
| Total Particulate | BAL | 8916456 | N/A | 2023/09/13 | Nancy Dhir |
| Subcontracting from AT-AMB to BV Novi | | 8929835 | N/A | | Jade Browne |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/09/08 | Prabhdeep Kaur |

**Bureau Veritas ID:** WXW694 **Collected:** 2023/08/10
**Sample ID:** TEARDROP AUG 10 23758132 PM 2.5 **Shipped:**
**Matrix:** Filter **Received:** 2023/09/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8904738 | N/A | 2023/09/14 | Automated Statchk |
| Total Particulate | BAL | 8916456 | N/A | 2023/09/13 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/09/08 | Prabhdeep Kaur |

**Bureau Veritas ID:** WXW695 **Collected:** 2023/08/17
**Sample ID:** TEARDROP AUG 16 23758135 PM 2.5 **Shipped:**
**Matrix:** Filter **Received:** 2023/09/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8904738 | N/A | 2023/09/14 | Automated Statchk |
| Total Particulate | BAL | 8916456 | N/A | 2023/09/13 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/09/08 | Prabhdeep Kaur |

**Bureau Veritas ID:** WXW696 **Collected:** 2023/08/22
**Sample ID:** TEARDROP AUG 22 23758127 PM 2.5 **Shipped:**
**Matrix:** Filter **Received:** 2023/09/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8904738 | N/A | 2023/09/14 | Automated Statchk |
| Total Particulate | BAL | 8916456 | N/A | 2023/09/13 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/09/08 | Prabhdeep Kaur |

**Bureau Veritas ID:** WXW697 **Collected:** 2023/08/28
**Sample ID:** TEARDROP AUG 28 23758130 PM 2.5 **Shipped:**
**Matrix:** Filter **Received:** 2023/09/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8904738 | N/A | 2023/09/14 | Automated Statchk |
| Total Particulate | BAL | 8916456 | N/A | 2023/09/13 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/09/08 | Prabhdeep Kaur |



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3R5425
Report Date: 2023/09/20

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** WXW698
**Sample ID:** TOTE AUG 4 237758800 PM 2.5
**Matrix:** Filter
**Collected:** 2023/08/05
**Shipped:**
**Received:** 2023/09/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8904738 | N/A | 2023/09/14 | Automated Statchk |
| Total Particulate | BAL | 8916456 | N/A | 2023/09/13 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/09/08 | Prabhdeep Kaur |

**Bureau Veritas ID:** WXW699
**Sample ID:** TOTE AUG 10 237758126 PM 2.5
**Matrix:** Filter
**Collected:** 2023/08/10
**Shipped:**
**Received:** 2023/09/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8904738 | N/A | 2023/09/14 | Automated Statchk |
| Total Particulate | BAL | 8916456 | N/A | 2023/09/13 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/09/08 | Prabhdeep Kaur |

**Bureau Veritas ID:** WXW700
**Sample ID:** TOTE AUG 16 237758137 PM 2.5
**Matrix:** Filter
**Collected:** 2023/08/17
**Shipped:**
**Received:** 2023/09/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8904738 | N/A | 2023/09/14 | Automated Statchk |
| Total Particulate | BAL | 8916456 | N/A | 2023/09/13 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/09/08 | Prabhdeep Kaur |

**Bureau Veritas ID:** WXW701
**Sample ID:** TOTE AUG 22 237758128 PM 2.5
**Matrix:** Filter
**Collected:** 2023/08/22
**Shipped:**
**Received:** 2023/09/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8904738 | N/A | 2023/09/14 | Automated Statchk |
| Total Particulate | BAL | 8916456 | N/A | 2023/09/13 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/09/08 | Prabhdeep Kaur |

**Bureau Veritas ID:** WXW702
**Sample ID:** TOTE AUG 28 237758136 PM 2.5
**Matrix:** Filter
**Collected:** 2023/08/28
**Shipped:**
**Received:** 2023/09/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 8904738 | N/A | 2023/09/14 | Automated Statchk |
| Total Particulate | BAL | 8916456 | N/A | 2023/09/13 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2023/09/08 | Prabhdeep Kaur |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

| | |
|---|---|
| Package 1 | 22.0°C |

**Results relate only to the items tested.**



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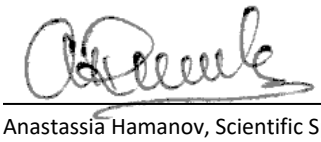
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3R5425
Report Date: 2023/09/20

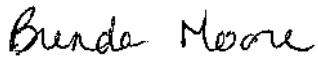
WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist



Brenda Moore, Team Lead, Inorganic

Jade Browne, Project Manager Assistant - Air

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ATP

CAM FCD-01302 /3

6740 Campobello Rd
Mississauga Ontario ,L5N 2L8
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM + CB + EM

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening (Inner Diameter) | Dust Fall Opening (Outer Diameter) | Silica | PM 10 | PM 2.5 | Dustfall | $NO_2$ | $SO_2$ | VOC | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Teardrop Aug 4 23032003 47 mm | 24.05 | 16.7 | 5-Aug | | | | X | | X | | | | | | | | |
| Teardrop Aug 10 23758132 PM 2.5 | 24.05 | 16.7 | 10-Aug | | | | | | X | | | | | | | | |
| Teardrop Aug 16 23758135 PM 2.5 | 24.05 | 16.7 | 17-Aug | | | | | | X | | | | | | | | |
| Teardrop Aug 22 23758127 PM 2.5 | 24.05 | 16.7 | 22-Aug | | | | | | X | | | | | | | | |
| Teardrop Aug 28 23758130 PM 2.5 | 24.05 | 16.7 | 28-Aug | | | | | | X | | | | | | | | |
| Tote Aug 4 237758800 PM 2.5 | 24.01 | 16.7 | 5-Aug | | | | | | X | | | | | | | | |
| Tote Aug 10 23758126 PM 2.5 | 24.01 | 16.7 | 10-Aug | | | | | | X | | | | | | | | |
| Tote Aug 16 23758137 PM 2.5 | 24.01 | 16.7 | 17-Aug | | | | | | X | | | | | | | | |
| Tote Aug 22 23758128 PM 2.5 | 24.03 | 16.7 | 22-Aug | | | | | | X | | | | | | | | |
| Tote Aug 28 23758136 PM 2.5 | 24.02 | 16.7 | 28-Aug | | | | | | X | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

08-Sep-23 09:04
Annette Tsz Wai Yuen
C3R5425
AK0 AIR-RmTmp

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2003.2023D.100
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Jade Browne

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com; emily.meek@kinross.com; aaron.peloquin@kinross.com; curtis.bloemberg@kinross.com***

Client Signature:
Affiliation:
Date/Time:

Received by:
Affiliation:
Date/Time: 08/09/23 09:04

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Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/02/23**
Report #: R8038915
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C439796**
**Received: 2024/02/08, 08:55**

Sample Matrix: Filter
# Samples Received: 11

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | 4 | N/A | 2024/02/14 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate (PM10) | 5 | N/A | 2024/02/13 | BRL SOP-00109 | Mthd IO-3-1 |
| Particulate Calculation | 5 | N/A | 2024/02/14 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate | 5 | N/A | 2024/02/13 | BRL SOP-00109 | Mthd IO-3-1 |
| Subcontracting from AT-AMB to BV Novi (1) | 1 | N/A | N/A | | Subcontracting |
| Air Volume from LoVol Sampling | 9 | N/A | 2024/02/09 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas (Novi), 22345 Roethal Dr. , Novi, MI, 48375

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/02/23**
Report #: R8038915
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C439796**
**Received: 2024/02/08, 08:55**

Encryption Key

Jade Browne
Project Manager Assistant - Air
23 Feb 2024 10:31:18

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C439796
Report Date: 2024/02/23

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | YII358 | | YII359 | YII360 | YII361 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/01/10 | | 2024/01/13 | 2024/01/19 | 2024/01/25 | | |
| COC Number | | n/a | | n/a | n/a | n/a | | |
| | UNITS | TEARDROP JAN 10 1668234 PM 2.5 | RDL | TEARDROP JAN 13 23032011 47MM | TEARDROP JAN 19 1668235 PM 2.5 | TEARDROP JAN 25 1629118 PM 2.5 | RDL | QC Batch |
| PM 10 Particulate | ug/m3 | 2.3 | 1.2 | N/A | 2.9 | 6.4 | 1.2 | 9212164 |
| Particulate Weight on Filter | ug | 55 (1) | 30 | N/A | 69 | 154 | 30 | 9219430 |
| Volume | m3 | 24.05 | N/A | N/A | 24.05 | 24.05 | N/A | ONSITE |
| **Subcontracted Analysis** | | | | | | | | |
| Subcontract Parameter | N/A | N/A | N/A | ATTACHED | N/A | N/A | N/A | 9236621 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) Filter was found torn

| Bureau Veritas ID | | YII362 | YII363 | | YII364 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/01/26 | 2024/01/31 | | 2024/01/10 | | |
| COC Number | | n/a | n/a | | n/a | | |
| | UNITS | TEARDROP JAN 26 1629111 PM 2.5 BLANK | TEARDROP JAN 31 1629113 PM 2.5 | QC Batch | TOTE JAN 10 1668233 PM 2.5 | RDL | QC Batch |
| Particulate | ug/m3 | N/A | N/A | 9212165 | 2.9 | 1.2 | 9212165 |
| PM 10 Particulate | ug/m3 | N/A | 4.5 | 9212164 | N/A | 1.2 | 9212164 |
| Particulate Weight on Filter | ug | <30 | 109 | 9219430 | 70 | 30 | 9219618 |
| Volume | m3 | N/A | 24.05 | ONSITE | 24.03 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C439796
Report Date: 2024/02/23

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | YII365 | | YII366 | YII367 | YII368 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/01/13 | | 2024/01/19 | 2024/01/25 | 2024/01/31 | | |
| COC Number | | n/a | | n/a | n/a | n/a | | |
| | UNITS | TOTE JAN 13 1668239 PM 2.5 | RDL | TOTE JAN 19 1668240 PM 2.5 | TOTE JAN 25 1629119 PM 2.5 | TOTE JAN 31 1563541 PM 2.5 | RDL | QC Batch |
| | | | | | | | | |
| Particulate | ug/m3 | <4.8 | 4.8 | 2.9 | 1.9 | 2.1 | 1.2 | 9212165 |
| Particulate Weight on Filter | ug | <30 | 30 | 69 | 45 | 50 | 30 | 9219618 |
| Volume | m3 | 6.290 | N/A | 24.03 | 24.02 | 24.03 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C439796
Report Date: 2024/02/23

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** YII358 **Collected:** 2024/01/10
**Sample ID:** TEARDROP JAN 10 1668234 PM 2.5 **Shipped:**
**Matrix:** Filter **Received:** 2024/02/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9212164 | N/A | 2024/02/14 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9219430 | N/A | 2024/02/13 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/02/09 | Dipika Singh |

**Bureau Veritas ID:** YII359 **Collected:** 2024/01/13
**Sample ID:** TEARDROP JAN 13 23032011 47MM **Shipped:**
**Matrix:** Filter **Received:** 2024/02/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Subcontracting from AT-AMB to BV Novi | | 9236621 | N/A | | Jade Browne |

**Bureau Veritas ID:** YII360 **Collected:** 2024/01/19
**Sample ID:** TEARDROP JAN 19 1668235 PM 2.5 **Shipped:**
**Matrix:** Filter **Received:** 2024/02/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9212164 | N/A | 2024/02/14 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9219430 | N/A | 2024/02/13 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/02/09 | Dipika Singh |

**Bureau Veritas ID:** YII361 **Collected:** 2024/01/25
**Sample ID:** TEARDROP JAN 25 1629118 PM 2.5 **Shipped:**
**Matrix:** Filter **Received:** 2024/02/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9212164 | N/A | 2024/02/14 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9219430 | N/A | 2024/02/13 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/02/09 | Dipika Singh |

**Bureau Veritas ID:** YII362 **Collected:** 2024/01/26
**Sample ID:** TEARDROP JAN 26 1629111 PM 2.5 BLANK **Shipped:**
**Matrix:** Filter **Received:** 2024/02/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Total Particulate (PM10) | BAL | 9219430 | N/A | 2024/02/13 | Nancy Dhir |

**Bureau Veritas ID:** YII363 **Collected:** 2024/01/31
**Sample ID:** TEARDROP JAN 31 1629113 PM 2.5 **Shipped:**
**Matrix:** Filter **Received:** 2024/02/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9212164 | N/A | 2024/02/14 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9219430 | N/A | 2024/02/13 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/02/09 | Dipika Singh |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C439796
Report Date: 2024/02/23

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** YII364
**Sample ID:** TOTE JAN 10 1668233 PM 2.5
**Matrix:** Filter
**Collected:** 2024/01/10
**Shipped:**
**Received:** 2024/02/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 9212165 | N/A | 2024/02/14 | Automated Statchk |
| Total Particulate | BAL | 9219618 | N/A | 2024/02/13 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/02/09 | Dipika Singh |

**Bureau Veritas ID:** YII365
**Sample ID:** TOTE JAN 13 1668239 PM 2.5
**Matrix:** Filter
**Collected:** 2024/01/13
**Shipped:**
**Received:** 2024/02/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 9212165 | N/A | 2024/02/14 | Automated Statchk |
| Total Particulate | BAL | 9219618 | N/A | 2024/02/13 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/02/09 | Dipika Singh |

**Bureau Veritas ID:** YII366
**Sample ID:** TOTE JAN 19 1668240 PM 2.5
**Matrix:** Filter
**Collected:** 2024/01/19
**Shipped:**
**Received:** 2024/02/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 9212165 | N/A | 2024/02/14 | Automated Statchk |
| Total Particulate | BAL | 9219618 | N/A | 2024/02/13 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/02/09 | Dipika Singh |

**Bureau Veritas ID:** YII367
**Sample ID:** TOTE JAN 25 1629119 PM 2.5
**Matrix:** Filter
**Collected:** 2024/01/25
**Shipped:**
**Received:** 2024/02/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 9212165 | N/A | 2024/02/14 | Automated Statchk |
| Total Particulate | BAL | 9219618 | N/A | 2024/02/13 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/02/09 | Dipika Singh |

**Bureau Veritas ID:** YII368
**Sample ID:** TOTE JAN 31 1563541 PM 2.5
**Matrix:** Filter
**Collected:** 2024/01/31
**Shipped:**
**Received:** 2024/02/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 9212165 | N/A | 2024/02/14 | Automated Statchk |
| Total Particulate | BAL | 9219618 | N/A | 2024/02/13 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/02/09 | Dipika Singh |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C439796
Report Date: 2024/02/23

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere, Senior Scientific Specialist

Jade Browne, Project Manager Assistant - Air

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

08-Feb-24 08:55

Gina Baybayan

C439796

RUK AIR-RmTmp

CAM FCD-01302 /3

bello Rd Toll Free: 1-800-668-0639
Ontario ,L5N 2L8 Phone: (905) 817-5700
www.bvlabs.com Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:

**SECTION**

Sampled by: JM + CB + EM

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening (Inner Diameter | Dust Fall Opening (Outer Diameter | Silica | PM 10 | PM 2.5 | Dustfall | $NO_2$ | $SO_2$ | VOC | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Teardrop Jan 10 1668234 PM 2.5 | 24.05 | 16.7 | 10-Jan | 1/12/2024 10:00 | | | | X | | | | | | | | | | |
| Teardrop Jan 13 23032011 47 mm | 24.05 | 16.7 | 13-Jan | 1/15/2024 11:25 | | | X | | | | | | | | | | | |
| Teardrop Jan 19 1668235 PM 2.5 | 24.05 | 16.7 | 19-Jan | 1/20/2024 10:30 | | | | X | | | | | | | | | | |
| Teardrop Jan 25 1629118 PM 2.5 | 24.05 | 16.7 | 25-Jan | 1/26/2024 11:30 | | | | X | | | | | | | | | | |
| Teardrop Jan 26 1629111 PM 2.5 BLANK | 0 | 0 | 26-Jan | 1/27/2024 11:35 | | | | X | | | | | | | | | | |
| Teardrop Jan 31 1629113 PM 2.5 | 24.05 | 16.7 | 31-Jan | 2/1/2024 10:20 | | | | X | | | | | | | | | | |
| Tote Jan 10 1668233 PM 2.5 | 24.03 | 16.7 | 10-Jan | 1/12/2024 11:15 | | | | | X | | | | | | | | | |
| Tote Jan 13 1668239 PM 2.5 | 6.29 | 16.7 | 13-Jan | 1/17/2024 14:30 | | | | | X | | | | | | | | | |
| Tote Jan 19 1668240 PM 2.5 | 24.03 | 16.7 | 19-Jan | 1/20/2024 9:40 | | | | | X | | | | | | | | | |
| Tote Jan 25 1629119 PM 2.5 | 24.02 | 16.7 | 25-Jan | 1/26/2024 12:00 | | | | | X | | | | | | | | | |
| Tote Jan 31 1563541 PM 2.5 | 24.03 | 16.7 | 31-Jan | 1/31/2024 9:30 | | | | | X | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2003.2023D.100
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Jade Browne

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com; emily.meek@kinross.com; aaron.peloquin@kinross.com; curtis.bloemberg@kinross.com***

Client Signature:
Affiliation:
Date/Time:

Received by: ANERI
Affiliation:
Date/Time: 2024/02/08 08:55

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Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/02/23**
Report #: R8038915
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C439796**
**Received: 2024/02/08, 08:55**

Sample Matrix: Filter
# Samples Received: 11

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | 4 | N/A | 2024/02/14 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate (PM10) | 5 | N/A | 2024/02/13 | BRL SOP-00109 | Mthd IO-3-1 |
| Particulate Calculation | 5 | N/A | 2024/02/14 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate | 5 | N/A | 2024/02/13 | BRL SOP-00109 | Mthd IO-3-1 |
| Subcontracting from AT-AMB to BV Novi (1) | 1 | N/A | N/A | | Subcontracting |
| Air Volume from LoVol Sampling | 9 | N/A | 2024/02/09 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
(1) This test was performed by Bureau Veritas (Novi), 22345 Roethal Dr. , Novi, MI, 48375

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/02/23**
Report #: R8038915
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C439796**
**Received: 2024/02/08, 08:55**

Encryption Key

Jade Browne
Project Manager Assistant - Air
23 Feb 2024 10:31:29

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Bureau Veritas Job #: C439796
Report Date: 2024/02/23

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | YII358 | | | YII359 | | YII360 | | |
|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/01/10 | | | 2024/01/13 | | 2024/01/19 | | |
| COC Number | | n/a | | | n/a | | n/a | | |
| | UNITS | TEARDROP JAN 10 1668234 PM 2.5 | RDL | QC Batch | TEARDROP JAN 13 23032011 47MM | QC Batch | TEARDROP JAN 19 1668235 PM 2.5 | RDL | QC Batch |
| PM 10 Particulate | ug/m3 | 2.3 | 1.2 | 9212164 | | | 2.9 | 1.2 | 9212164 |
| Particulate Weight on Filter | ug | 55 (1) | 30 | 9219430 | | | 69 | 30 | 9219430 |
| Volume | m3 | 24.05 | N/A | ONSITE | | | 24.05 | N/A | ONSITE |
| **Subcontracted Analysis** | | | | | | | | | |
| Subcontract Parameter | N/A | | | | ATTACHED | 9236621 | | | |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) Filter was found torn

| Bureau Veritas ID | | YII361 | | | YII362 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/01/25 | | | 2024/01/26 | | |
| COC Number | | n/a | | | n/a | | |
| | UNITS | TEARDROP JAN 25 1629118 PM 2.5 | RDL | QC Batch | TEARDROP JAN 26 1629111 PM 2.5 BLANK | RDL | QC Batch |
| PM 10 Particulate | ug/m3 | 6.4 | 1.2 | 9212164 | | | |
| Particulate Weight on Filter | ug | 154 | 30 | 9219430 | <30 | 30 | 9219430 |
| Volume | m3 | 24.05 | N/A | ONSITE | | | |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C439796
Report Date: 2024/02/23

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | YII363 | | | YII364 | | YII365 | | |
|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/01/31 | | | 2024/01/10 | | 2024/01/13 | | |
| COC Number | | n/a | | | n/a | | n/a | | |
| | UNITS | TEARDROP JAN 31 1629113 PM 2.5 | RDL | QC Batch | TOTE JAN 10 1668233 PM 2.5 | RDL | TOTE JAN 13 1668239 PM 2.5 | RDL | QC Batch |
| Particulate | ug/m3 | | | | 2.9 | 1.2 | <4.8 | 4.8 | 9212165 |
| PM 10 Particulate | ug/m3 | 4.5 | 1.2 | 9212164 | | | | | |
| Particulate Weight on Filter | ug | 109 | 30 | 9219430 | 70 | 30 | <30 | 30 | 9219618 |
| Volume | m3 | 24.05 | N/A | ONSITE | 24.03 | N/A | 6.290 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

| Bureau Veritas ID | | YII366 | YII367 | YII368 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2024/01/19 | 2024/01/25 | 2024/01/31 | | |
| COC Number | | n/a | n/a | n/a | | |
| | UNITS | TOTE JAN 19 1668240 PM 2.5 | TOTE JAN 25 1629119 PM 2.5 | TOTE JAN 31 1563541 PM 2.5 | RDL | QC Batch |
| Particulate | ug/m3 | 2.9 | 1.9 | 2.1 | 1.2 | 9212165 |
| Particulate Weight on Filter | ug | 69 | 45 | 50 | 30 | 9219618 |
| Volume | m3 | 24.03 | 24.02 | 24.03 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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## GENERAL COMMENTS

**Results relate only to the items tested.**



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Bureau Veritas Job #: C439796
Report Date: 2024/02/23

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere, Senior Scientific Specialist

Jade Browne, Project Manager Assistant - Air

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: CA-EI-C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: N/A

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/04/10**
Report #: R8101983
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C469698**
**Received: 2024/03/07, 09:34**

Sample Matrix: Filter
# Samples Received: 11

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | 5 | N/A | 2024/03/18 | BRL SOP-00109 | EPA IO-2mod |
| Particulate Calculation PM 10 (IO-2mod) | 1 | N/A | 2024/04/10 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate (PM10) | 6 | N/A | 2024/03/12 | BRL SOP-00109 | Mthd IO-3-1 |
| Particulate Calculation | 5 | N/A | 2024/03/18 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate | 5 | N/A | 2024/03/12 | BRL SOP-00109 | Mthd IO-3-1 |
| Subcontracting from AT-AMB to BV Novi (1) | 2 | N/A | N/A | | Subcontracting |
| Air Volume from LoVol Sampling | 10 | N/A | 2024/03/07 | | |
| Air Volume from LoVol Sampling | 1 | N/A | 2024/04/10 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas (Novi), 22345 Roethal Dr. , Novi, MI, 48375

Your P.O. #: CA-EI-C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: N/A

**Attention: Kinross Project**

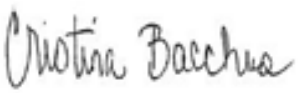
WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/04/10**
Report #: R8101983
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C469698**
**Received: 2024/03/07, 09:34**

Encryption Key



Cristina (Maria) Bacchus
Project Manager
10 Apr 2024 16:35:27

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763
==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C469698
Report Date: 2024/04/10

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: CA-EI-C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | YON362 | | YON363 | | YON364 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/02/06 | | 2024/02/12 | | 2024/02/18 | | |
| | UNITS | TEARDROP FEB 6 1668234 47 MM | QC Batch | TEARDROP FEB 12 23032011 PM2.5 | QC Batch | TEARDROP FEB 18 1668235 PM 2.5 | RDL | QC Batch |
| PM 10 Particulate | ug/m3 | 6.1 | 9262712 | 7.5 | 9274100 | 6.4 | 1.2 | 9262712 |
| Particulate Weight on Filter | ug | 147 | 9280425 | 181 | 9280425 | 155 | 30 | 9280425 |
| Volume | m3 | 24.05 | ONSITE | 24.05 | ONSITE | 24.05 | N/A | ONSITE |
| **Subcontracted Analysis** | | | | | | | | |
| Subcontract Parameter | N/A | ATTACHED | 9325367 | N/A | N/A | N/A | N/A | N/A |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

| Bureau Veritas ID | | YON365 | YON366 | YON367 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2024/02/24 | 2024/02/25 | 2024/03/01 | | |
| | UNITS | TEARDROP FEB 24 1629118 PM2.5 | TEARDROP FEB 25 1629111 PM 2.5 BLANK | TEARDROP MAR 1 1629113 47 MM | RDL | QC Batch |
| PM 10 Particulate | ug/m3 | 7.1 | <1.2 | 7.3 | 1.2 | 9262712 |
| Particulate Weight on Filter | ug | 171 | <30 (1) | 175 (1) | 30 | 9280425 |
| Volume | m3 | 24.05 | 24.05 | 24.05 | N/A | ONSITE |
| **Subcontracted Analysis** | | | | | | |
| Subcontract Parameter | N/A | N/A | N/A | ATTACHED | N/A | 9325367 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) Filter is found torn



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Bureau Veritas Job #: C469698
Report Date: 2024/04/10

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: CA-EI-C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | YON368 | YON369 | YON370 | YON371 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/02/06 | 2024/02/13 | 2024/02/18 | 2024/02/24 | | |
| | UNITS | TOTE FEB 6 1668233 PM 2.5 | TOTE FEB 13 1668239 PM 2.5 | TOTE FEB 18 1668240 PM 2.5 | TOTE JAN 24 1629119 PM 2.5 | RDL | QC Batch |
| Particulate | ug/m3 | 2.1 | <1.2 | <1.2 | 2.3 | 1.2 | 9262713 |
| Particulate Weight on Filter | ug | 50 | <30 | <30 | 56 | 30 | 9280421 |
| Volume | m3 | 24.03 | 24.05 | 24.04 | 24.02 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

| Bureau Veritas ID | | YON372 | | |
|---|---|---|---|---|
| Sampling Date | | 2024/03/01 | | |
| | UNITS | TOTE MAT 1 1563541 PM 2.5 | RDL | QC Batch |
| Particulate | ug/m3 | 4.0 | 1.2 | 9262713 |
| Particulate Weight on Filter | ug | 97 | 30 | 9280421 |
| Volume | m3 | 24.03 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C469698
Report Date: 2024/04/10

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: CA-EI-C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** YON362 **Collected:** 2024/02/06
**Sample ID:** TEARDROP FEB 6 1668234 47 MM **Shipped:**
**Matrix:** Filter **Received:** 2024/03/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9262712 | N/A | 2024/03/18 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9280425 | N/A | 2024/03/12 | Nancy Dhir |
| Subcontracting from AT-AMB to BV Novi | | 9325367 | N/A | | Jade Browne |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/03/07 | Prabhdeep Kaur |

**Bureau Veritas ID:** YON363 **Collected:** 2024/02/12
**Sample ID:** TEARDROP FEB 12 23032011 PM2.5 **Shipped:**
**Matrix:** Filter **Received:** 2024/03/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9274100 | N/A | 2024/04/10 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9280425 | N/A | 2024/03/12 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/04/10 | Cristina (Maria) Bacchus |

**Bureau Veritas ID:** YON364 **Collected:** 2024/02/18
**Sample ID:** TEARDROP FEB 18 1668235 PM 2.5 **Shipped:**
**Matrix:** Filter **Received:** 2024/03/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9262712 | N/A | 2024/03/18 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9280425 | N/A | 2024/03/12 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/03/07 | Prabhdeep Kaur |

**Bureau Veritas ID:** YON365 **Collected:** 2024/02/24
**Sample ID:** TEARDROP FEB 24 1629118 PM2.5 **Shipped:**
**Matrix:** Filter **Received:** 2024/03/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9262712 | N/A | 2024/03/18 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9280425 | N/A | 2024/03/12 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/03/07 | Prabhdeep Kaur |

**Bureau Veritas ID:** YON366 **Collected:** 2024/02/25
**Sample ID:** TEARDROP FEB 25 1629111 PM 2.5 BLANK **Shipped:**
**Matrix:** Filter **Received:** 2024/03/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9262712 | N/A | 2024/03/18 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9280425 | N/A | 2024/03/12 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/03/07 | Prabhdeep Kaur |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## TEST SUMMARY

**Bureau Veritas ID:** YON367 **Collected:** 2024/03/01
**Sample ID:** TEARDROP MAR 1 1629113 47 MM **Shipped:**
**Matrix:** Filter **Received:** 2024/03/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9262712 | N/A | 2024/03/18 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9280425 | N/A | 2024/03/12 | Nancy Dhir |
| Subcontracting from AT-AMB to BV Novi | | 9325367 | N/A | | Jade Browne |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/03/07 | Prabhdeep Kaur |

**Bureau Veritas ID:** YON368 **Collected:** 2024/02/06
**Sample ID:** TOTE FEB 6 1668233 PM 2.5 **Shipped:**
**Matrix:** Filter **Received:** 2024/03/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 9262713 | N/A | 2024/03/18 | Automated Statchk |
| Total Particulate | BAL | 9280421 | N/A | 2024/03/12 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/03/07 | Prabhdeep Kaur |

**Bureau Veritas ID:** YON369 **Collected:** 2024/02/13
**Sample ID:** TOTE FEB 13 1668239 PM 2.5 **Shipped:**
**Matrix:** Filter **Received:** 2024/03/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 9262713 | N/A | 2024/03/18 | Automated Statchk |
| Total Particulate | BAL | 9280421 | N/A | 2024/03/12 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/03/07 | Prabhdeep Kaur |

**Bureau Veritas ID:** YON370 **Collected:** 2024/02/18
**Sample ID:** TOTE FEB 18 1668240 PM 2.5 **Shipped:**
**Matrix:** Filter **Received:** 2024/03/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 9262713 | N/A | 2024/03/18 | Automated Statchk |
| Total Particulate | BAL | 9280421 | N/A | 2024/03/12 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/03/07 | Prabhdeep Kaur |

**Bureau Veritas ID:** YON371 **Collected:** 2024/02/24
**Sample ID:** TOTE JAN 24 1629119 PM 2.5 **Shipped:**
**Matrix:** Filter **Received:** 2024/03/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 9262713 | N/A | 2024/03/18 | Automated Statchk |
| Total Particulate | BAL | 9280421 | N/A | 2024/03/12 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/03/07 | Prabhdeep Kaur |



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C469698
Report Date: 2024/04/10

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: CA-EI-C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** YON372
**Sample ID:** TOTE MAT 1 1563541 PM 2.5
**Matrix:** Filter

**Collected:** 2024/03/01
**Shipped:**
**Received:** 2024/03/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 9262713 | N/A | 2024/03/18 | Automated Statchk |
| Total Particulate | BAL | 9280421 | N/A | 2024/03/12 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/03/07 | Prabhdeep Kaur |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C469698
Report Date: 2024/04/10

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: CA-EI-C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere, Senior Scientific Specialist

Cristina Bacchus, Project Manager

Jade Browne, Project Manager Assistant - Air

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

07-Mar-24 09:34
Gina Baybayan
C469698

RUK AIR-RmTmp

CAM FCD-01302 /3

Page 1 of 1

# CHAIN OF CUSTODY FORM - AIR


ello Rd
Ontario ,L5N 2L8
www.bvlabs.com
Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777


**CLIENT INFORMATION**

Company Name: Kinross / WSP E&I Canada
Project Manager: Ryan Fletcher
e-mail: See comments below for email list
Address: 19 Young Street,
Red Lake, ON, CA, P0V 2M0
Phone: 1 647-283-4638 Fax:
Sampled by: JM + CB + EM + AP

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Run Time | Dust Fall Opening (Inner Diameter) | Dust Fall Opening (Outer Diameter) | Silica | PM 10 | PM 2.5 | Dustfall | TSP | Metals | Mercury | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Teardrop Feb 6 1668234 47 mm | 24.05 | 16.7 | 6-Feb | 24 | | | | X | | | | | | | | | | |
| Teardrop Feb 12 23032011 PM2.5 | 24.05 | 16.7 | 12-Feb | 24 | | | X | | | | | | | | | | | |
| Teardrop Feb 18 1668235 PM 2.5 | 24.05 | 16.7 | 18-Feb | 24 | | | | X | | | | | | | | | | |
| Teardrop Feb 24 1629118 PM 2.5 | 24.05 | 16.7 | 24-Feb | 24 | | | | X | | | | | | | | | | |
| Teardrop Feb 25 1629111 PM 2.5 BLANK | 0 | 0 | 25-Feb | 24 | | | | X | | | | | | | | | | |
| Teardrop Mar 1 1629113 47 mm | 24.05 | 16.7 | 1-Mar | 24 | | | | X | | | | | | | | | | |
| Tote Feb 6 1668233 PM 2.5 | 24.03 | 16.7 | 6-Feb | 23:59 | | | | | X | | | | | | | | | |
| Tote Feb 13 1668239 PM 2.5 | 24.05 | 16.7 | 13-Feb | 24 | | | | | X | | | | | | | | | |
| Tote Feb 18 1668240 PM 2.5 | 24.04 | 16.7 | 18-Feb | 23:59 | | | | | X | | | | | | | | | |
| Tote Jan 24 1629119 PM 2.5 | 24.02 | 16.7 | 24-Feb | 23:59 | | | | | X | | | | | | | | | |
| Tote Mar 1 1563541 PM 2.5 | 24.03 | 16.7 | 1-Mar | 23:59 | | | | | X | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2303.2023D.100
Name: Kinross Project
PO #: CA-EI-C026300307
BV Quote #:
BV Contact: Jade Browne

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; ryan.fletcher@wsp.com; airgroup@woodplc.com; emily.meek@kinross.com; aaron.peloquin@kinross.com; curtis.bloemberg@kinross.com***

Client Signature: CB
Affiliation: Kinross
Date/Time: 3/4/2024

Received by:
Affiliation:
Date/Time: 2024/03/07 09:34


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Your P.O. #: CA-EI-C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: N/A

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/04/10**
Report #: R8101983
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C469698**
**Received: 2024/03/07, 09:34**

Sample Matrix: Filter
# Samples Received: 11

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | 5 | N/A | 2024/03/18 | BRL SOP-00109 | EPA IO-2mod |
| Particulate Calculation PM 10 (IO-2mod) | 1 | N/A | 2024/04/10 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate (PM10) | 6 | N/A | 2024/03/12 | BRL SOP-00109 | Mthd IO-3-1 |
| Particulate Calculation | 5 | N/A | 2024/03/18 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate | 5 | N/A | 2024/03/12 | BRL SOP-00109 | Mthd IO-3-1 |
| Subcontracting from AT-AMB to BV Novi (1) | 2 | N/A | N/A | | Subcontracting |
| Air Volume from LoVol Sampling | 10 | N/A | 2024/03/07 | | |
| Air Volume from LoVol Sampling | 1 | N/A | 2024/04/10 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
(1) This test was performed by Bureau Veritas (Novi), 22345 Roethal Dr. , Novi, MI, 48375

Your P.O. #: CA-EI-C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: N/A

**Attention: Kinross Project**

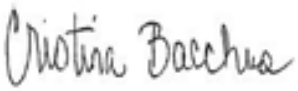
WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/04/10**
Report #: R8101983
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C469698**
**Received: 2024/03/07, 09:34**

Encryption Key



Cristina (Maria) Bacchus
Project Manager
10 Apr 2024 16:35:28

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Bureau Veritas Job #: C469698
Report Date: 2024/04/10

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: CA-EI-C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | YON362 | | | YON363 | | YON364 | | |
|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/02/06 | | | 2024/02/12 | | 2024/02/18 | | |
| COC Number | | N/A | | | N/A | | N/A | | |
| | UNITS | TEARDROP FEB 6 1668234 47 MM | RDL | QC Batch | TEARDROP FEB 12 23032011 PM2.5 | QC Batch | TEARDROP FEB 18 1668235 PM 2.5 | RDL | QC Batch |
| PM 10 Particulate | ug/m3 | 6.1 | 1.2 | 9262712 | 7.5 | 9274100 | 6.4 | 1.2 | 9262712 |
| Particulate Weight on Filter | ug | 147 | 30 | 9280425 | 181 | 9280425 | 155 | 30 | 9280425 |
| Volume | m3 | 24.05 | N/A | ONSITE | 24.05 | ONSITE | 24.05 | N/A | ONSITE |
| **Subcontracted Analysis** | | | | | | | | | |
| Subcontract Parameter | N/A | ATTACHED | N/A | 9325367 | | | | | |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

| Bureau Veritas ID | | YON365 | YON366 | | | YON367 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/02/24 | 2024/02/25 | | | 2024/03/01 | | |
| COC Number | | N/A | N/A | | | N/A | | |
| | UNITS | TEARDROP FEB 24 1629118 PM2.5 | TEARDROP FEB 25 1629111 PM 2.5 BLANK | RDL | QC Batch | TEARDROP MAR 1 1629113 47 MM | RDL | QC Batch |
| PM 10 Particulate | ug/m3 | 7.1 | <1.2 | 1.2 | 9262712 | 7.3 | 1.2 | 9262712 |
| Particulate Weight on Filter | ug | 171 | <30 (1) | 30 | 9280425 | 175 (1) | 30 | 9280425 |
| Volume | m3 | 24.05 | 24.05 | N/A | ONSITE | 24.05 | N/A | ONSITE |
| **Subcontracted Analysis** | | | | | | | | |
| Subcontract Parameter | N/A | | | | | ATTACHED | N/A | 9325367 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) Filter is found torn



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C469698
Report Date: 2024/04/10

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: CA-EI-C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | YON368 | YON369 | YON370 | YON371 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/02/06 | 2024/02/13 | 2024/02/18 | 2024/02/24 | | |
| COC Number | | N/A | N/A | N/A | N/A | | |
| | UNITS | TOTE FEB 6 1668233 PM 2.5 | TOTE FEB 13 1668239 PM 2.5 | TOTE FEB 18 1668240 PM 2.5 | TOTE JAN 24 1629119 PM 2.5 | RDL | QC Batch |
| Particulate | ug/m3 | 2.1 | <1.2 | <1.2 | 2.3 | 1.2 | 9262713 |
| Particulate Weight on Filter | ug | 50 | <30 | <30 | 56 | 30 | 9280421 |
| Volume | m3 | 24.03 | 24.05 | 24.04 | 24.02 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

| Bureau Veritas ID | | YON372 | | |
|---|---|---|---|---|
| Sampling Date | | 2024/03/01 | | |
| COC Number | | N/A | | |
| | UNITS | TOTE MAT 1 1563541 PM 2.5 | RDL | QC Batch |
| Particulate | ug/m3 | 4.0 | 1.2 | 9262713 |
| Particulate Weight on Filter | ug | 97 | 30 | 9280421 |
| Volume | m3 | 24.03 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C469698
Report Date: 2024/04/10

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: CA-EI-C026300307
Sampler Initials: JM

## GENERAL COMMENTS

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C469698
Report Date: 2024/04/10

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: CA-EI-C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere, Senior Scientific Specialist

Cristina Bacchus, Project Manager

Jade Browne, Project Manager Assistant - Air

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: EICAC026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/04/19**
Report #: R8115267
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4A0981**
**Received: 2024/04/05, 09:00**

Sample Matrix: Filter
# Samples Received: 11

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | 5 | N/A | 2024/04/12 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate (PM10) | 6 | N/A | 2024/04/10 | BRL SOP-00109 | Mthd IO-3-1 |
| Particulate Calculation | 5 | N/A | 2024/04/12 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate | 5 | N/A | 2024/04/10 | BRL SOP-00109 | Mthd IO-3-1 |
| Air Volume from LoVol Sampling | 1 | N/A | 2024/04/19 | | |
| Air Volume from LoVol Sampling | 9 | N/A | 2024/04/05 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
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Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: EICAC026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/04/19**
Report #: R8115267
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4A0981**
**Received: 2024/04/05, 09:00**

Encryption Key

Jade Browne
Project Manager Assistant - Air
19 Apr 2024 17:42:36

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Bureau Veritas Job #: C4A0981
Report Date: 2024/04/19

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | YUZ337 | YUZ338 | YUZ339 | YUZ340 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/03/07 | 2024/03/13 | 2024/03/19 | 2024/03/25 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | TEARDROP MAR 7 1522464 PM 2.5 | TEARDROP MAR 13 1629116 PM 2.5 | TEARDROP MAR 19 1522461 PM 2.5 | TEARDROP MAR 25 1522462 PM 2.5 | RDL | QC Batch |
| PM 10 Particulate | ug/m3 | 5.3 | 6.6 | 3.5 | 2.7 | 1.2 | 9318128 |
| Particulate Weight on Filter | ug | 128 | 160 | 85 (1) | 64 (1) | 30 | 9329942 |
| Volume | m3 | 24.05 | 24.05 | 24.05 | 24.05 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) Filter was found torn

| Bureau Veritas ID | | YUZ341 | YUZ342 | | YUZ343 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/03/23 | 2024/03/31 | | 2024/03/07 | | |
| COC Number | | n/a | n/a | | n/a | | |
| | UNITS | TEARDROP MAR 23 1522469 PM 2.5 BLANK | TEARDROP MAR 31 34127652 PM2.5 | QC Batch | TOTE MAR 7 1522459 PM 2.5 | RDL | QC Batch |
| Particulate | ug/m3 | N/A | N/A | 9317832 | 2.9 | 1.2 | 9317832 |
| PM 10 Particulate | ug/m3 | N/A | 3.6 | 9318128 | N/A | 1.2 | 9318128 |
| Particulate Weight on Filter | ug | <30 | 86 | 9329942 | 71 | 30 | 9329752 |
| Volume | m3 | N/A | 24.05 | ONSITE | 24.03 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4A0981
Report Date: 2024/04/19

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | YUZ344 | YUZ345 | YUZ346 | YUZ347 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/03/13 | 2024/03/19 | 2024/03/25 | 2024/03/31 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | TOTE MAR 13 1522465 PM 2.5 | TOTE MAR 19 1522460 PM 2.5 | TOTE MAR 25 1522469 PM 2.5 | TOTE MAR 31 1522466 PM 2.5 | RDL | QC Batch |
| Particulate | ug/m3 | 1.6 | <1.2 | 2.7 | 1.2 | 1.2 | 9317832 |
| Particulate Weight on Filter | ug | 40 | <30 (1) | 64 (1) | 30 | 30 | 9329752 |
| Volume | m3 | 24.79 | 24.03 | 24.04 | 24.03 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) Filter was found torn



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4A0981
Report Date: 2024/04/19

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** YUZ337 **Collected:** 2024/03/07
**Sample ID:** TEARDROP MAR 7 1522464 PM 2.5 **Shipped:**
**Matrix:** Filter **Received:** 2024/04/05

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9318128 | N/A | 2024/04/12 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9329942 | N/A | 2024/04/10 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/04/05 | Prabhdeep Kaur |

**Bureau Veritas ID:** YUZ338 **Collected:** 2024/03/13
**Sample ID:** TEARDROP MAR 13 1629116 PM 2.5 **Shipped:**
**Matrix:** Filter **Received:** 2024/04/05

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9318128 | N/A | 2024/04/12 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9329942 | N/A | 2024/04/10 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/04/05 | Prabhdeep Kaur |

**Bureau Veritas ID:** YUZ339 **Collected:** 2024/03/19
**Sample ID:** TEARDROP MAR 19 1522461 PM 2.5 **Shipped:**
**Matrix:** Filter **Received:** 2024/04/05

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9318128 | N/A | 2024/04/12 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9329942 | N/A | 2024/04/10 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/04/05 | Prabhdeep Kaur |

**Bureau Veritas ID:** YUZ340 **Collected:** 2024/03/25
**Sample ID:** TEARDROP MAR 25 1522462 PM 2.5 **Shipped:**
**Matrix:** Filter **Received:** 2024/04/05

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9318128 | N/A | 2024/04/12 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9329942 | N/A | 2024/04/10 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/04/19 | Prabhdeep Kaur |

**Bureau Veritas ID:** YUZ341 **Collected:** 2024/03/23
**Sample ID:** TEARDROP MAR 23 1522469 PM 2.5 BLANK **Shipped:**
**Matrix:** Filter **Received:** 2024/04/05

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Total Particulate (PM10) | BAL | 9329942 | N/A | 2024/04/10 | Nancy Dhir |

**Bureau Veritas ID:** YUZ342 **Collected:** 2024/03/31
**Sample ID:** TEARDROP MAR 31 34127652 PM2.5 **Shipped:**
**Matrix:** Filter **Received:** 2024/04/05

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9318128 | N/A | 2024/04/12 | Automated Statchk |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4A0981
Report Date: 2024/04/19

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** YUZ342 **Collected:** 2024/03/31
**Sample ID:** TEARDROP MAR 31 34127652 PM2.5 **Shipped:**
**Matrix:** Filter **Received:** 2024/04/05

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Total Particulate (PM10) | BAL | 9329942 | N/A | 2024/04/10 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/04/05 | Prabhdeep Kaur |

**Bureau Veritas ID:** YUZ343 **Collected:** 2024/03/07
**Sample ID:** TOTE MAR 7 1522459 PM 2.5 **Shipped:**
**Matrix:** Filter **Received:** 2024/04/05

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 9317832 | N/A | 2024/04/12 | Automated Statchk |
| Total Particulate | BAL | 9329752 | N/A | 2024/04/10 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/04/05 | Prabhdeep Kaur |

**Bureau Veritas ID:** YUZ344 **Collected:** 2024/03/13
**Sample ID:** TOTE MAR 13 1522465 PM 2.5 **Shipped:**
**Matrix:** Filter **Received:** 2024/04/05

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 9317832 | N/A | 2024/04/12 | Automated Statchk |
| Total Particulate | BAL | 9329752 | N/A | 2024/04/10 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/04/05 | Prabhdeep Kaur |

**Bureau Veritas ID:** YUZ345 **Collected:** 2024/03/19
**Sample ID:** TOTE MAR 19 1522460 PM 2.5 **Shipped:**
**Matrix:** Filter **Received:** 2024/04/05

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 9317832 | N/A | 2024/04/12 | Automated Statchk |
| Total Particulate | BAL | 9329752 | N/A | 2024/04/10 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/04/05 | Prabhdeep Kaur |

**Bureau Veritas ID:** YUZ346 **Collected:** 2024/03/25
**Sample ID:** TOTE MAR 25 1522469 PM 2.5 **Shipped:**
**Matrix:** Filter **Received:** 2024/04/05

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 9317832 | N/A | 2024/04/12 | Automated Statchk |
| Total Particulate | BAL | 9329752 | N/A | 2024/04/10 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/04/05 | Prabhdeep Kaur |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4A0981
Report Date: 2024/04/19

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** YUZ347
**Sample ID:** TOTE MAR 31 1522466 PM 2.5
**Matrix:** Filter

**Collected:** 2024/03/31
**Shipped:**
**Received:** 2024/04/05

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 9317832 | N/A | 2024/04/12 | Automated Statchk |
| Total Particulate | BAL | 9329752 | N/A | 2024/04/10 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/04/05 | Prabhdeep Kaur |



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

| | |
|---|---|
| Package 1 | 13.3°C |

**Results relate only to the items tested.**



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

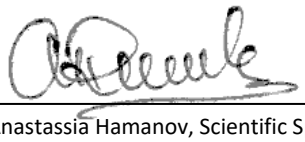
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4A0981
Report Date: 2024/04/19

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

AIR

CAM FCD-01302 /3

6740 Campobello Rd
Mississauga Ontario ,L5N 2L8
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / WSP E&I Canada
Project Manager: Ryan Fletcher
e-mail: See comments below for email list
Address: 19 Young Street,
Red Lake, ON, CA, P0V 2M0
Phone: 1 647-283-4638 Fax:
Sampled by: JM + CB + EM + AP

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Run Time | Dust Fall Opening (Inner Diameter | Dust Fall Opening (Outer Diameter | Silica | PM 10 | PM 2.5 | Dustfall | TSP | Metals | Mercury |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Teardrop Mar 7 1522464 PM2.5 | 24.05 | 16.7 | 7-Mar | 24 | | | | X | | | | | |
| Teardrop Mar 13 1629116 PM2.5 | 24.05 | 16.7 | 13-Mar | 24 | | | | X | | | | | |
| Teardrop Mar 19 1522461 PM 2.5 | 24.05 | 16.7 | 19-Mar | 24 | | | | X | | | | | |
| Teardrop Mar 25 1522462 PM 2.5 | 24.05 | 16.7 | 25-Mar | 24 | | | | X | | | | | |
| Teardrop Mar 23 1522469 PM 2.5 BLANK | 0 | 0 | 23-Mar | 0 | | | | X | | | | | |
| Teardrop Mar 31 34127652 PM2.5 | 24.05 | 16.7 | 31-Mar | 24 | | | | X | | | | | |
| Tote Mar 7 1522459 PM 2.5 | 24.03 | 16.7 | 7-Mar | 23.59 | | | | | X | | | | |
| Tote Mar 13 1522465 PM 2.5 | 24.79 | 16.7 | 13-Mar | 23.46 | | | | | X | | | | |
| Tote Mar 19 1522460 PM 2.5 | 24.03 | 16.7 | 19-Mar | 23.59 | | | | | X | | | | |
| Tote Mar 25 1522469 PM 2.5 | 24.04 | 16.7 | 25-Mar | 23.59 | | | | | X | | | | |
| Tote Mar 31 1522466 PM 2.5 | 24.03 | 16.7 | 31-Mar | 23.59 | | | | | X | | | | |

05-Apr-24 09:00
Gina Baybayan
C4A0981
AK0 AIR-RmTmp

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2303.2023D.100
Name: Kinross Project
PO #: EICAC026300307
BV Quote #:
BV Contact: Jade Browne

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; ryan.fletcher@wsp.com; airgroup@woodplc.com; emily.meek@kinross.com; aaron.peloquin@kinross.com; curtis.bloemberg@kinross.com***

Client Signature: CB
Affiliation: Kinross
Date/Time: 4/2/2024

Received by: SUGAR SALVAP
Affiliation:
Date/Time: 2024/04/05 9:00

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions*

17 / 14 / 13

Your P.O. #: EICAC026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/05/21**
Report #: R8156903
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4D3989**
**Received: 2024/05/06, 09:18**

Sample Matrix: Filter
# Samples Received: 12

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | 4 | N/A | 2024/05/14 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate (PM10) | 6 | N/A | 2024/05/09 | BRL SOP-00109 | Mthd IO-3-1 |
| Particulate Calculation | 6 | N/A | 2024/05/14 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate | 6 | N/A | 2024/05/09 | BRL SOP-00109 | Mthd IO-3-1 |
| Subcontracting from AT-AMB to BV Novi (1) | 1 | N/A | N/A | | Subcontracting |
| Air Volume from LoVol Sampling | 10 | N/A | 2024/05/07 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas (Novi), 22345 Roethal Dr. , Novi, MI, 48375

Your P.O. #: EICAC026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/05/21**
Report #: R8156903
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4D3989**
**Received: 2024/05/06, 09:18**

Encryption Key

Cristina (Maria) Bacchus
Project Manager
21 May 2024 16:17:02

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Bureau Veritas Job #: C4D3989
Report Date: 2024/05/21

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | ZBV279 | ZBV280 | ZBV281 | ZBV282 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/04/06 | 2024/04/12 | 2024/04/18 | 2024/04/19 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | TEARDROP APRIL 6 47MM PVC | TEARDROP APRIL 12 PM 10 | TEARDROP APRIL 18 PM 10 | TEARDROP APRIL 19 BLANK | RDL | QC Batch |
| PM 10 Particulate | ug/m3 | 3.1 | 3.1 | 2.4 | N/A | 1.2 | 9378493 |
| Particulate Weight on Filter | ug | 74 | 76 | 58 | 40 | 30 | 9391349 |
| Volume | m3 | 24.05 | 24.05 | 24.05 | N/A | N/A | ONSITE |
| **Subcontracted Analysis** | | | | | | | |
| Subcontract Parameter | N/A | ATTACHED | N/A | N/A | N/A | N/A | 9404226 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

| Bureau Veritas ID | | ZBV283 | ZBV284 | | ZBV285 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/04/24 | 2024/04/25 | | 2024/02/02 | | |
| COC Number | | n/a | n/a | | n/a | | |
| | UNITS | TEARDROP APRIL 24 PM 10 | TEARDROP APRIL 25 BLANK | QC Batch | TOTE FEBRUARY 12 PM 2.5 | RDL | QC Batch |
| Particulate | ug/m3 | N/A | N/A | 9378495 | 3.1 | 1.2 | 9378495 |
| PM 10 Particulate | ug/m3 | 5.2 | N/A | 9378493 | N/A | 1.2 | 9378493 |
| Particulate Weight on Filter | ug | 125 | 35 | 9391349 | 76 | 30 | 9391347 |
| Volume | m3 | 24.05 | N/A | ONSITE | 24.05 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4D3989
Report Date: 2024/05/21

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | ZBV286 | ZBV287 | ZBV288 | ZBV289 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/04/06 | 2024/04/12 | 2024/04/18 | 2024/04/24 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | TOTE APRIL 6 PM 2.5 | TOTE APRIL 12 PM 2.5 | TOTE APRIL 18 PM 2.5 | TOTE APRIL 24 PM 2.5 | RDL | QC Batch |
| | | | | | | | |
| Particulate | ug/m3 | 2.2 | 2.6 | 1.5 | 2.7 | 1.2 | 9378495 |
| Particulate Weight on Filter | ug | 53 | 62 | 37 | 64 | 30 | 9391347 |
| Volume | m3 | 24.03 | 24.02 | 24.02 | 24.02 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

| Bureau Veritas ID | | ZBV290 | | |
|---|---|---|---|---|
| Sampling Date | | 2024/04/30 | | |
| COC Number | | n/a | | |
| | UNITS | TOTE APRIL 30 PM 2.5 | RDL | QC Batch |
| | | | | |
| Particulate | ug/m3 | 3.9 | 1.2 | 9378495 |
| Particulate Weight on Filter | ug | 93 | 30 | 9391347 |
| Volume | m3 | 24.02 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4D3989
Report Date: 2024/05/21

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** ZBV279
**Sample ID:** TEARDROP APRIL 6 47MM PVC
**Matrix:** Filter
**Collected:** 2024/04/06
**Shipped:**
**Received:** 2024/05/06

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9378493 | N/A | 2024/05/14 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9391349 | N/A | 2024/05/09 | Nancy Dhir |
| Subcontracting from AT-AMB to BV Novi | | 9404226 | N/A | | Julian Tong |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/05/07 | Prabhdeep Kaur |

**Bureau Veritas ID:** ZBV280
**Sample ID:** TEARDROP APRIL 12 PM 10
**Matrix:** Filter
**Collected:** 2024/04/12
**Shipped:**
**Received:** 2024/05/06

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9378493 | N/A | 2024/05/14 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9391349 | N/A | 2024/05/09 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/05/07 | Prabhdeep Kaur |

**Bureau Veritas ID:** ZBV281
**Sample ID:** TEARDROP APRIL 18 PM 10
**Matrix:** Filter
**Collected:** 2024/04/18
**Shipped:**
**Received:** 2024/05/06

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9378493 | N/A | 2024/05/14 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9391349 | N/A | 2024/05/09 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/05/07 | Prabhdeep Kaur |

**Bureau Veritas ID:** ZBV282
**Sample ID:** TEARDROP APRIL 19 BLANK
**Matrix:** Filter
**Collected:** 2024/04/19
**Shipped:**
**Received:** 2024/05/06

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Total Particulate (PM10) | BAL | 9391349 | N/A | 2024/05/09 | Nancy Dhir |

**Bureau Veritas ID:** ZBV283
**Sample ID:** TEARDROP APRIL 24 PM 10
**Matrix:** Filter
**Collected:** 2024/04/24
**Shipped:**
**Received:** 2024/05/06

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9378493 | N/A | 2024/05/14 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9391349 | N/A | 2024/05/09 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/05/07 | Prabhdeep Kaur |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4D3989
Report Date: 2024/05/21

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** ZBV284 **Collected:** 2024/04/25
**Sample ID:** TEARDROP APRIL 25 BLANK **Shipped:**
**Matrix:** Filter **Received:** 2024/05/06

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Total Particulate (PM10) | BAL | 9391349 | N/A | 2024/05/09 | Nancy Dhir |

**Bureau Veritas ID:** ZBV285 **Collected:** 2024/02/02
**Sample ID:** TOTE FEBRUARY 12 PM 2.5 **Shipped:**
**Matrix:** Filter **Received:** 2024/05/06

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 9378495 | N/A | 2024/05/14 | Automated Statchk |
| Total Particulate | BAL | 9391347 | N/A | 2024/05/09 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/05/07 | Prabhdeep Kaur |

**Bureau Veritas ID:** ZBV286 **Collected:** 2024/04/06
**Sample ID:** TOTE APRIL 6 PM 2.5 **Shipped:**
**Matrix:** Filter **Received:** 2024/05/06

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 9378495 | N/A | 2024/05/14 | Automated Statchk |
| Total Particulate | BAL | 9391347 | N/A | 2024/05/09 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/05/07 | Prabhdeep Kaur |

**Bureau Veritas ID:** ZBV287 **Collected:** 2024/04/12
**Sample ID:** TOTE APRIL 12 PM 2.5 **Shipped:**
**Matrix:** Filter **Received:** 2024/05/06

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 9378495 | N/A | 2024/05/14 | Automated Statchk |
| Total Particulate | BAL | 9391347 | N/A | 2024/05/09 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/05/07 | Prabhdeep Kaur |

**Bureau Veritas ID:** ZBV288 **Collected:** 2024/04/18
**Sample ID:** TOTE APRIL 18 PM 2.5 **Shipped:**
**Matrix:** Filter **Received:** 2024/05/06

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 9378495 | N/A | 2024/05/14 | Automated Statchk |
| Total Particulate | BAL | 9391347 | N/A | 2024/05/09 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/05/07 | Prabhdeep Kaur |

**Bureau Veritas ID:** ZBV289 **Collected:** 2024/04/24
**Sample ID:** TOTE APRIL 24 PM 2.5 **Shipped:**
**Matrix:** Filter **Received:** 2024/05/06

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 9378495 | N/A | 2024/05/14 | Automated Statchk |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4D3989
Report Date: 2024/05/21

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** ZBV289
**Sample ID:** TOTE APRIL 24 PM 2.5
**Matrix:** Filter

**Collected:** 2024/04/24
**Shipped:**
**Received:** 2024/05/06

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Total Particulate | BAL | 9391347 | N/A | 2024/05/09 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/05/07 | Prabhdeep Kaur |

**Bureau Veritas ID:** ZBV290
**Sample ID:** TOTE APRIL 30 PM 2.5
**Matrix:** Filter

**Collected:** 2024/04/30
**Shipped:**
**Received:** 2024/05/06

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 9378495 | N/A | 2024/05/14 | Automated Statchk |
| Total Particulate | BAL | 9391347 | N/A | 2024/05/09 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/05/07 | Prabhdeep Kaur |



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

| | |
|---|---|
| Package 1 | 17.0°C |

**Results relate only to the items tested.**



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4D3989
Report Date: 2024/05/21

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere, Senior Scientific Specialist

Julian Tong, Project Manager Assistant

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

# AIR

CAM FCD-01302 /3

6740 Campobello Rd
Mississauga Ontario ,L5N 2L8
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

## CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / WSP E&I Canada
Project Manager: Ryan Fletcher
e-mail: See comments below for email list
Address: 19 Young Street,
Red Lake, ON, CA, P0V 2M0
Phone: 1 647-283-4638 Fax:
Sampled by: JM + CB + EM + AP

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Run Time (hours) | Dust Fall Opening (Inner Diameter) | Dust Fall Opening (Outer Diameter) | Silica | PM 10 | PM 2.5 | Dustfall | TSP | Metals | Mercury |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Teardrop April 6 47mm PVC | 24.05 | 16.7 | 4/6/2024 | 24 | | | X | X | | | | | |
| Teardrop April 12 PM 10 | 24.05 | 16.7 | 4/12/2024 | 24 | | | | X | | | | | |
| Teardrop April 18 PM 10 | 24.05 | 16.7 | 4/18/2024 | 24 | | | | X | | | | | |
| Teardrop April 19 Blank | 0 | 0 | 4/19/2024 | 24 | | | | X | | | | | |
| Teardrop April 24 PM 10 | 24.05 | 16.7 | 4/24/2024 | 24 | | | | X | | | | | |
| Teardrop April 25 Blank | 0 | 0 | 4/25/2024 | 144 | | | | X | | | | | |
| Tote February 12 PM 2.5 | 24.05 | 16.7 | 2/12/2024 | 24 | | | | | X | | | | |
| Tote April 6 PM 2.5 | 27.03 | 16.7 | 4/6/2024 | 23:59 | | | | | X | | | | |
| Tote April 12 PM 2.5 | 24.02 | 16.7 | 4/12/2024 | 23:59 | | | | | X | | | | |
| Tote April 18 PM 2.5 | 24.02 | 16.7 | 4/18/2024 | 23:59 | | | | | X | | | | |
| Tote April 24 PM 2.5 | 24.02 | 16.7 | 4/24/2024 | 23:59 | | | | | X | | | | |
| Tote April 30 PM 2.5 | 24.02 | 16.7 | 4/30/2024 | 23:59 | | | | | X | | | | |

06-May-24 09:18
Gina Baybayan
C4D3989
AN4 AIR-RmTmp

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2303.2023D.100
Name: Kinross Project
PO #: EICAC026300307
BV Quote #:
BV Contact: Jade Browne

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; ryan.fletcher@wsp.com; airgroup@woodplc.com; emily.meek@kinross.com; aaron.peloquin@kinross.com; curtis.bloemberg@kinross.com***

Client Signature: EM
Affiliation: Kinross
Date/Time: 5/2/2024

Received by:
Affiliation:
Date/Time: 0918

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions*

Your P.O. #: EICAC026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/05/21**
Report #: R8156903
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4D3989**
**Received: 2024/05/06, 09:18**

Sample Matrix: Filter
# Samples Received: 12

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | 4 | N/A | 2024/05/14 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate (PM10) | 6 | N/A | 2024/05/09 | BRL SOP-00109 | Mthd IO-3-1 |
| Particulate Calculation | 6 | N/A | 2024/05/14 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate | 6 | N/A | 2024/05/09 | BRL SOP-00109 | Mthd IO-3-1 |
| Subcontracting from AT-AMB to BV Novi (1) | 1 | N/A | N/A | | Subcontracting |
| Air Volume from LoVol Sampling | 10 | N/A | 2024/05/07 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
(1) This test was performed by Bureau Veritas (Novi), 22345 Roethal Dr. , Novi, MI, 48375

Your P.O. #: EICAC026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/05/21**
Report #: R8156903
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4D3989**
**Received: 2024/05/06, 09:18**

Encryption Key

Cristina (Maria) Bacchus
Project Manager
21 May 2024 16:17:18

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C4D3989
Report Date: 2024/05/21

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | ZBV279 | | | ZBV280 | ZBV281 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/04/06 | | | 2024/04/12 | 2024/04/18 | | |
| COC Number | | n/a | | | n/a | n/a | | |
| | UNITS | TEARDROP APRIL 6 47MM PVC | RDL | QC Batch | TEARDROP APRIL 12 PM 10 | TEARDROP APRIL 18 PM 10 | RDL | QC Batch |
| PM 10 Particulate | ug/m3 | 3.1 | 1.2 | 9378493 | 3.1 | 2.4 | 1.2 | 9378493 |
| Particulate Weight on Filter | ug | 74 | 30 | 9391349 | 76 | 58 | 30 | 9391349 |
| Volume | m3 | 24.05 | N/A | ONSITE | 24.05 | 24.05 | N/A | ONSITE |
| **Subcontracted Analysis** | | | | | | | | |
| Subcontract Parameter | N/A | ATTACHED | N/A | 9404226 | | | | |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

| Bureau Veritas ID | | ZBV282 | | | ZBV283 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/04/19 | | | 2024/04/24 | | |
| COC Number | | n/a | | | n/a | | |
| | UNITS | TEARDROP APRIL 19 BLANK | RDL | QC Batch | TEARDROP APRIL 24 PM 10 | RDL | QC Batch |
| PM 10 Particulate | ug/m3 | | | | 5.2 | 1.2 | 9378493 |
| Particulate Weight on Filter | ug | 40 | 30 | 9391349 | 125 | 30 | 9391349 |
| Volume | m3 | | | | 24.05 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

| Bureau Veritas ID | | ZBV284 | | | ZBV285 | ZBV286 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/04/25 | | | 2024/02/02 | 2024/04/06 | | |
| COC Number | | n/a | | | n/a | n/a | | |
| | UNITS | TEARDROP APRIL 25 BLANK | RDL | QC Batch | TOTE FEBRUARY 12 PM 2.5 | TOTE APRIL 6 PM 2.5 | RDL | QC Batch |
| Particulate | ug/m3 | | | | 3.1 | 2.2 | 1.2 | 9378495 |
| Particulate Weight on Filter | ug | 35 | 30 | 9391349 | 76 | 53 | 30 | 9391347 |
| Volume | m3 | | | | 24.05 | 24.03 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4D3989
Report Date: 2024/05/21

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | ZBV287 | ZBV288 | ZBV289 | ZBV290 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/04/12 | 2024/04/18 | 2024/04/24 | 2024/04/30 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | TOTE APRIL 12 PM 2.5 | TOTE APRIL 18 PM 2.5 | TOTE APRIL 24 PM 2.5 | TOTE APRIL 30 PM 2.5 | RDL | QC Batch |
| | | | | | | | |
| Particulate | ug/m3 | 2.6 | 1.5 | 2.7 | 3.9 | 1.2 | 9378495 |
| Particulate Weight on Filter | ug | 62 | 37 | 64 | 93 | 30 | 9391347 |
| Volume | m3 | 24.02 | 24.02 | 24.02 | 24.02 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4D3989
Report Date: 2024/05/21

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere, Senior Scientific Specialist

Julian Tong, Project Manager Assistant

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: EICAC026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/06/17**
Report #: R8194292
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4H2436**
**Received: 2024/06/06, 11:00**

Sample Matrix: Filter
# Samples Received: 11

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | 5 | N/A | 2024/06/13 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate (PM10) | 5 | N/A | 2024/06/12 | BRL SOP-00109 | Mthd IO-3-1 |
| Particulate Calculation | 5 | N/A | 2024/06/13 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate | 6 | N/A | 2024/06/12 | BRL SOP-00109 | Mthd IO-3-1 |
| Air Volume from LoVol Sampling | 10 | N/A | 2024/06/12 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
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Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: EICAC026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/06/17**
Report #: R8194292
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4H2436**
**Received: 2024/06/06, 11:00**

Encryption Key

Cristina (Maria) Bacchus
Project Manager
17 Jun 2024 07:39:49

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Bureau Veritas Job #: C4H2436
Report Date: 2024/06/17

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | ZJU141 | ZJU142 | ZJU143 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2024/05/12 | 2024/05/18 | 2024/05/24 | | |
| COC Number | | n/a | n/a | n/a | | |
| | UNITS | TEARDROP MAY 12 PM 10 | TEARDROP MAY 18 PM 10 | TEARDROP MAY 24 PM 10 | RDL | QC Batch |
| PM 10 Particulate | ug/m3 | 21.2 | 3.8 | 4.4 | 1.2 | 9442669 |
| Particulate Weight on Filter | ug | 510 | 93 | 105 | 30 | 9452546 |
| Volume | m3 | 24.05 | 24.05 | 24.05 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

| Bureau Veritas ID | | ZJU144 | ZJU145 | | ZJU146 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/05/26 | 2024/05/30 | | 2024/05/06 | | |
| COC Number | | n/a | n/a | | n/a | | |
| | UNITS | TEARDROP MAY 26 PM 10 | TEARDROP MAY 30 PM 10 | QC Batch | BELL TOWERS MAY 6 PM 2.5 | RDL | QC Batch |
| Particulate | ug/m3 | N/A | N/A | 9442670 | 2.5 | 1.2 | 9442670 |
| PM 10 Particulate | ug/m3 | 4.0 | 8.7 | 9442669 | N/A | 1.2 | 9442669 |
| Particulate Weight on Filter | ug | 95 | 210 | 9452546 | 61 | 30 | 9452415 |
| Volume | m3 | 24.05 | 24.05 | ONSITE | 24.02 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

| Bureau Veritas ID | | ZJU147 | ZJU148 | ZJU149 | ZJU150 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/05/12 | 2024/05/18 | 2024/05/24 | 2024/05/26 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | BELL TOWERS MAY 12 PM 2.5 | BELL TOWERS MAY 18 PM 2.5 | BELL TOWERS MAY 24 PM 2.5 | BELL TOWERS MAY 26 PM 2.5 BLANK | RDL | QC Batch |
| Particulate | ug/m3 | 17.2 | 3.0 | 2.4 | N/A | 1.2 | 9442670 |
| Particulate Weight on Filter | ug | 412 | 72 | 57 | <30 | 30 | 9452415 |
| Volume | m3 | 24.02 | 24.02 | 24.02 | N/A | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4H2436
Report Date: 2024/06/17

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | ZJU151 | | |
|---|---|---|---|---|
| Sampling Date | | 2024/05/30 | | |
| COC Number | | n/a | | |
| | UNITS | BELL TOWERS MAY 30 PM 2.5 | RDL | QC Batch |
| | | | | |
| Particulate | ug/m3 | 4.2 | 1.2 | 9442670 |
| Particulate Weight on Filter | ug | 102 | 30 | 9452415 |
| Volume | m3 | 24.02 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4H2436
Report Date: 2024/06/17

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** ZJU141 **Collected:** 2024/05/12
**Sample ID:** TEARDROP MAY 12 PM 10 **Shipped:**
**Matrix:** Filter **Received:** 2024/06/06

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9442669 | N/A | 2024/06/13 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9452546 | N/A | 2024/06/12 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/06/12 | Prabhdeep Kaur |

**Bureau Veritas ID:** ZJU142 **Collected:** 2024/05/18
**Sample ID:** TEARDROP MAY 18 PM 10 **Shipped:**
**Matrix:** Filter **Received:** 2024/06/06

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9442669 | N/A | 2024/06/13 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9452546 | N/A | 2024/06/12 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/06/12 | Prabhdeep Kaur |

**Bureau Veritas ID:** ZJU143 **Collected:** 2024/05/24
**Sample ID:** TEARDROP MAY 24 PM 10 **Shipped:**
**Matrix:** Filter **Received:** 2024/06/06

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9442669 | N/A | 2024/06/13 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9452546 | N/A | 2024/06/12 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/06/12 | Prabhdeep Kaur |

**Bureau Veritas ID:** ZJU144 **Collected:** 2024/05/26
**Sample ID:** TEARDROP MAY 26 PM 10 **Shipped:**
**Matrix:** Filter **Received:** 2024/06/06

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9442669 | N/A | 2024/06/13 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9452546 | N/A | 2024/06/12 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/06/12 | Prabhdeep Kaur |

**Bureau Veritas ID:** ZJU145 **Collected:** 2024/05/30
**Sample ID:** TEARDROP MAY 30 PM 10 **Shipped:**
**Matrix:** Filter **Received:** 2024/06/06

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9442669 | N/A | 2024/06/13 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9452546 | N/A | 2024/06/12 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/06/12 | Prabhdeep Kaur |



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4H2436
Report Date: 2024/06/17

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** ZJU146 **Collected:** 2024/05/06
**Sample ID:** BELL TOWERS MAY 6 PM 2.5 **Shipped:**
**Matrix:** Filter **Received:** 2024/06/06

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 9442670 | N/A | 2024/06/13 | Automated Statchk |
| Total Particulate | BAL | 9452415 | N/A | 2024/06/12 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/06/12 | Prabhdeep Kaur |

**Bureau Veritas ID:** ZJU147 **Collected:** 2024/05/12
**Sample ID:** BELL TOWERS MAY 12 PM 2.5 **Shipped:**
**Matrix:** Filter **Received:** 2024/06/06

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 9442670 | N/A | 2024/06/13 | Automated Statchk |
| Total Particulate | BAL | 9452415 | N/A | 2024/06/12 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/06/12 | Prabhdeep Kaur |

**Bureau Veritas ID:** ZJU148 **Collected:** 2024/05/18
**Sample ID:** BELL TOWERS MAY 18 PM 2.5 **Shipped:**
**Matrix:** Filter **Received:** 2024/06/06

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 9442670 | N/A | 2024/06/13 | Automated Statchk |
| Total Particulate | BAL | 9452415 | N/A | 2024/06/12 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/06/12 | Prabhdeep Kaur |

**Bureau Veritas ID:** ZJU149 **Collected:** 2024/05/24
**Sample ID:** BELL TOWERS MAY 24 PM 2.5 **Shipped:**
**Matrix:** Filter **Received:** 2024/06/06

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 9442670 | N/A | 2024/06/13 | Automated Statchk |
| Total Particulate | BAL | 9452415 | N/A | 2024/06/12 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/06/12 | Prabhdeep Kaur |

**Bureau Veritas ID:** ZJU150 **Collected:** 2024/05/26
**Sample ID:** BELL TOWERS MAY 26 PM 2.5 BLANK **Shipped:**
**Matrix:** Filter **Received:** 2024/06/06

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Total Particulate | BAL | 9452415 | N/A | 2024/06/12 | Nancy Dhir |

**Bureau Veritas ID:** ZJU151 **Collected:** 2024/05/30
**Sample ID:** BELL TOWERS MAY 30 PM 2.5 **Shipped:**
**Matrix:** Filter **Received:** 2024/06/06

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 9442670 | N/A | 2024/06/13 | Automated Statchk |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4H2436
Report Date: 2024/06/17

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** ZJU151
**Sample ID:** BELL TOWERS MAY 30 PM 2.5
**Matrix:** Filter

**Collected:** 2024/05/30
**Shipped:**
**Received:** 2024/06/06

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Total Particulate | BAL | 9452415 | N/A | 2024/06/12 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/06/12 | Prabhdeep Kaur |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

No data reported for TEARDROP MAY2 47MM PVC - filter badly damaged.

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4H2436
Report Date: 2024/06/17

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

06-Jun-24 11:00
Gina Baybayan
C4H2436

SBS AIR-RmTmp www.bvlabs.com

CAM FCD-01302 /3

ello Rd Toll Free: 1-800-668-0639
Ontario ,L5N 2L8 Phone: (905) 817-5700
Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / WSP E&I Canada
Project Manager: Ryan Fletcher
e-mail: See comments below for email list
Address: 19 Young Street,
Red Lake, ON, CA, P0V 2M0
Phone: 1 647-283-4638 Fax:
Sampled by: JM + CB + EM + AP

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Run Time | Dust Fall Opening (Inner Diameter) | Dust Fall Opening (Outer Diameter) | Silica | PM 10 | PM 2.5 | Dustfall | TSP | Metals | Mercury | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Teardrop May 2 47mm PVC | 24.05 | 16.7 | 5/2/2024 | 24 | | | X | X | | | | | | | | | |
| Teardrop May 12 PM 10 | 24.05 | 16.7 | 5/12/2024 | 24 | | | | X | | | | | | | | | |
| Teardrop May 18 PM 10 | 24.05 | 16.7 | 5/18/2024 | 24 | | | | X | | | | | | | | | |
| Teardrop May 24 PM 10 | 24.05 | 16.7 | 5/24/2024 | 24 | | | | X | | | | | | | | | |
| Teardrop May 26 PM 10 | 24.05 | 16.7 | 5/26/2024 | 24 | | | | X | | | | | | | | | |
| Teardrop May 30 PM 10 | 24.05 | 16.7 | 5/30/2024 | 24 | | | | X | | | | | | | | | |
| Bell Towers May 6 PM 2.5 | 24.02 | 16.7 | 5/6/2024 | 23:59 | | | | | X | | | | | | | | |
| Bell Towers May 12 PM 2.5 | 24.02 | 16.7 | 5/12/2024 | 23:59 | | | | | X | | | | | | | | |
| Bell Towers May 18 PM 2.5 | 24.02 | 16.7 | 5/18/2024 | 23:59 | | | | | X | | | | | | | | |
| Bell Towers May 24 PM 2.5 | 24.02 | 16.7 | 5/24/2024 | 23:59 | | | | | X | | | | | | | | |
| Bell Towers May 26 PM 2.5 BLANK | 0 | 0 | 5/26/2024 | 23:59 | | | | | X | | | | | | | | |
| Bell Towers May 30 PM 2.5 | 24.02 | 16.7 | 5/30/2024 | 23:59 | | | | | X | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2303.2023D.100
Name: Kinross Project
PO #: EICAC026300307
BV Quote #:
BV Contact: Jade Browne

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; ryan.fletcher@wsp.com; airgroup@woodplc.com; emily.meek@kinross.com; aaron.peloquin@kinross.com; curtis.bloemberg@kinross.com***

Client Signature: EM
Affiliation: Kinross
Date/Time: June 3

Received by:
Affiliation:
Date/Time: June 6/24 1:22

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Your P.O. #: P104312CA001
Your Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/07/12**
Report #: R8231761
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4K4479**
**Received: 2024/07/05, 08:56**

Sample Matrix: Filter
# Samples Received: 10

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | 5 | N/A | 2024/07/12 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate (PM10) | 5 | N/A | 2024/07/11 | BRL SOP-00109 | Mthd IO-3-1 |
| Particulate Calculation | 5 | N/A | 2024/07/12 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate | 5 | N/A | 2024/07/11 | BRL SOP-00109 | Mthd IO-3-1 |
| Air Volume from LoVol Sampling | 10 | N/A | 2024/07/05 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: P104312CA001
Your Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/07/12**
Report #: R8231761
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4K4479**
**Received: 2024/07/05, 08:56**

Encryption Key

Julian Tong
Project Manager Assistant
12 Jul 2024 17:24:11

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Bureau Veritas Job #: C4K4479
Report Date: 2024/07/12

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | ZQJ228 | ZQJ229 | ZQJ230 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2024/06/05 | 2024/06/11 | 2024/06/17 | | |
| COC Number | | n/a | n/a | n/a | | |
| | UNITS | TEARDROP JUNE 5 PM 10 | TEARDROP JUNE 11 PM 10 | TEARDROP JUNE 17 PM 10 | RDL | QC Batch |
| PM 10 Particulate | ug/m3 | 10.4 | 7.3 | 8.6 | 1.2 | 9498343 |
| Particulate Weight on Filter | ug | 251 | 177 | 207 | 30 | 9510682 |
| Volume | m3 | 24.05 | 24.05 | 24.05 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

| Bureau Veritas ID | | ZQJ231 | ZQJ232 | | ZQJ233 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/06/23 | 2024/06/29 | | 2024/06/05 | | |
| COC Number | | n/a | n/a | | n/a | | |
| | UNITS | TEARDROP JUNE 23 PM 10 | TEARDROP JUNE 29 PM 10 | QC Batch | BELL TOWERS JUNE 5 PM 2.5 | RDL | QC Batch |
| Particulate | ug/m3 | N/A | N/A | 9498345 | 7.6 | 1.2 | 9498345 |
| PM 10 Particulate | ug/m3 | 8.6 | 4.6 | 9498343 | N/A | 1.2 | 9498343 |
| Particulate Weight on Filter | ug | 208 | 111 | 9510682 | 183 | 30 | 9510699 |
| Volume | m3 | 24.05 | 24.05 | ONSITE | 24.02 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

| Bureau Veritas ID | | ZQJ234 | ZQJ235 | ZQJ236 | ZQJ237 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/06/11 | 2024/06/17 | 2024/06/23 | 2024/06/29 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | BELL TOWERS JUNE 11 PM 2.5 | BELL TOWERS JUNE 17 PM 2.5 | BELL TOWERS JUNE 23 PM 2.5 | BELL TOWERS JUNE 29 PM 2.5 | RDL | QC Batch |
| Particulate | ug/m3 | 4.1 | 3.5 | 5.1 | 3.2 | 1.2 | 9498345 |
| Particulate Weight on Filter | ug | 99 | 84 | 122 | 77 | 30 | 9510699 |
| Volume | m3 | 24.01 | 24.02 | 24.01 | 24.02 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4K4479
Report Date: 2024/07/12

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** ZQJ228 **Collected:** 2024/06/05
**Sample ID:** TEARDROP JUNE 5 PM 10 **Shipped:**
**Matrix:** Filter **Received:** 2024/07/05

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9498343 | N/A | 2024/07/12 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9510682 | N/A | 2024/07/11 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/07/05 | Dipika Singh |

**Bureau Veritas ID:** ZQJ229 **Collected:** 2024/06/11
**Sample ID:** TEARDROP JUNE 11 PM 10 **Shipped:**
**Matrix:** Filter **Received:** 2024/07/05

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9498343 | N/A | 2024/07/12 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9510682 | N/A | 2024/07/11 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/07/05 | Dipika Singh |

**Bureau Veritas ID:** ZQJ230 **Collected:** 2024/06/17
**Sample ID:** TEARDROP JUNE 17 PM 10 **Shipped:**
**Matrix:** Filter **Received:** 2024/07/05

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9498343 | N/A | 2024/07/12 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9510682 | N/A | 2024/07/11 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/07/05 | Dipika Singh |

**Bureau Veritas ID:** ZQJ231 **Collected:** 2024/06/23
**Sample ID:** TEARDROP JUNE 23 PM 10 **Shipped:**
**Matrix:** Filter **Received:** 2024/07/05

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9498343 | N/A | 2024/07/12 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9510682 | N/A | 2024/07/11 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/07/05 | Dipika Singh |

**Bureau Veritas ID:** ZQJ232 **Collected:** 2024/06/29
**Sample ID:** TEARDROP JUNE 29 PM 10 **Shipped:**
**Matrix:** Filter **Received:** 2024/07/05

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9498343 | N/A | 2024/07/12 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9510682 | N/A | 2024/07/11 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/07/05 | Dipika Singh |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4K4479
Report Date: 2024/07/12

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** ZQJ233
**Sample ID:** BELL TOWERS JUNE 5 PM 2.5
**Matrix:** Filter
**Collected:** 2024/06/05
**Shipped:**
**Received:** 2024/07/05

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 9498345 | N/A | 2024/07/12 | Automated Statchk |
| Total Particulate | BAL | 9510699 | N/A | 2024/07/11 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/07/05 | Dipika Singh |

**Bureau Veritas ID:** ZQJ234
**Sample ID:** BELL TOWERS JUNE 11 PM 2.5
**Matrix:** Filter
**Collected:** 2024/06/11
**Shipped:**
**Received:** 2024/07/05

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 9498345 | N/A | 2024/07/12 | Automated Statchk |
| Total Particulate | BAL | 9510699 | N/A | 2024/07/11 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/07/05 | Dipika Singh |

**Bureau Veritas ID:** ZQJ235
**Sample ID:** BELL TOWERS JUNE 17 PM 2.5
**Matrix:** Filter
**Collected:** 2024/06/17
**Shipped:**
**Received:** 2024/07/05

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 9498345 | N/A | 2024/07/12 | Automated Statchk |
| Total Particulate | BAL | 9510699 | N/A | 2024/07/11 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/07/05 | Dipika Singh |

**Bureau Veritas ID:** ZQJ236
**Sample ID:** BELL TOWERS JUNE 23 PM 2.5
**Matrix:** Filter
**Collected:** 2024/06/23
**Shipped:**
**Received:** 2024/07/05

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 9498345 | N/A | 2024/07/12 | Automated Statchk |
| Total Particulate | BAL | 9510699 | N/A | 2024/07/11 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/07/05 | Dipika Singh |

**Bureau Veritas ID:** ZQJ237
**Sample ID:** BELL TOWERS JUNE 29 PM 2.5
**Matrix:** Filter
**Collected:** 2024/06/29
**Shipped:**
**Received:** 2024/07/05

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 9498345 | N/A | 2024/07/12 | Automated Statchk |
| Total Particulate | BAL | 9510699 | N/A | 2024/07/11 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/07/05 | Dipika Singh |



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4K4479
Report Date: 2024/07/12

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

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Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

05-Jul-24 08:56
Ashton Gibson
C4K4479

CAM FCD-01302 /3

RPK AIR-RmTmp

) Rd
ario ,L5N 2L8
Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / WSP Canada Inc.
Project Manager: Ryan Fletcher
e-mail: See comments below for email list

**SECTION**

Address: 19 Young Street,
Red Lake, ON, CA, P0V 2M0

Phone: 1 647-283-4638 Fax:

Sampled by: JM + CB + EM + AP

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Run Time | Dust Fall Opening (Inner Diameter) | Dust Fall Opening (Outer Diameter) | Silica | PM 10 | PM 2.5 | Dustfall | TSP | Metals | Mercury | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Teardrop June 5 PM 10 | 24.05 | 16.7 | 6/5/2024 | 24 | | | | X | | | | | | | | | | |
| Teardrop June 11 PM 10 | 24.05 | 16.7 | 6/11/2024 | 24 | | | | X | | | | | | | | | | |
| Teardrop June 17 PM 10 | 24.05 | 16.7 | 6/17/2024 | 24 | | | | X | | | | | | | | | | |
| Teardrop June 23 PM 10 | 24.05 | 16.7 | 6/23/2024 | 24 | | | | X | | | | | | | | | | |
| Teardrop June 29 PM 10 | 24.05 | 16.7 | 6/29/2024 | 24 | | | | X | | | | | | | | | | |
| Bell Towers June 5 PM 2.5 | 24.02 | 16.7 | 6/5/2024 | 23:59 | | | | | X | | | | | | | | | |
| Bell Towers June 11 PM 2.5 | 24.01 | 16.7 | 6/11/2024 | 23:59 | | | | | X | | | | | | | | | |
| Bell Towers June 17 PM 2.5 | 24.02 | 16.7 | 6/17/2024 | 23:59 | | | | | X | | | | | | | | | |
| Bell Towers June 23 PM 2.5 | 24.01 | 16.7 | 6/23/2024 | 23:59 | | | | | X | | | | | | | | | |
| Bell Towers June 29 PM 2.5 | 24.02 | 16.7 | 6/29/2024 | 23:59 | | | | | X | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: **CA0031272.9242**
Name: Kinross Project
PO #: P104312CA001
BV Quote #:
BV Contact: Jade Browne

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑

Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; ryan.fletcher@wsp.com; airgroup@woodplc.com; emily.meek@kinross.com; aaron.peloquin@kinross.com; curtis.bloemberg@kinross.com***

Client Signature: JM
Affiliation: Kinross
Date/Time: 7/2/2024

Received by: SATHA BASTOLA
Affiliation:
Date/Time: 2024/07/05 08:56

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions*

Your P.O. #: P104312CA001
Your Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/07/12**
Report #: R8231761
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4K4479**
**Received: 2024/07/05, 08:56**

Sample Matrix: Filter
# Samples Received: 10

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | 5 | N/A | 2024/07/12 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate (PM10) | 5 | N/A | 2024/07/11 | BRL SOP-00109 | Mthd IO-3-1 |
| Particulate Calculation | 5 | N/A | 2024/07/12 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate | 5 | N/A | 2024/07/11 | BRL SOP-00109 | Mthd IO-3-1 |
| Air Volume from LoVol Sampling | 10 | N/A | 2024/07/05 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

Your P.O. #: P104312CA001
Your Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/07/12**
Report #: R8231761
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4K4479**
**Received: 2024/07/05, 08:56**

Encryption Key

Julian Tong
Project Manager Assistant
12 Jul 2024 17:24:27

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Bureau Veritas Job #: C4K4479
Report Date: 2024/07/12

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | ZQJ228 | ZQJ229 | ZQJ230 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2024/06/05 | 2024/06/11 | 2024/06/17 | | |
| COC Number | | n/a | n/a | n/a | | |
| | UNITS | TEARDROP JUNE 5 PM 10 | TEARDROP JUNE 11 PM 10 | TEARDROP JUNE 17 PM 10 | RDL | QC Batch |
| PM 10 Particulate | ug/m3 | 10.4 | 7.3 | 8.6 | 1.2 | 9498343 |
| Particulate Weight on Filter | ug | 251 | 177 | 207 | 30 | 9510682 |
| Volume | m3 | 24.05 | 24.05 | 24.05 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

| Bureau Veritas ID | | ZQJ231 | ZQJ232 | | | ZQJ233 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/06/23 | 2024/06/29 | | | 2024/06/05 | | |
| COC Number | | n/a | n/a | | | n/a | | |
| | UNITS | TEARDROP JUNE 23 PM 10 | TEARDROP JUNE 29 PM 10 | RDL | QC Batch | BELL TOWERS JUNE 5 PM 2.5 | RDL | QC Batch |
| Particulate | ug/m3 | | | | | 7.6 | 1.2 | 9498345 |
| PM 10 Particulate | ug/m3 | 8.6 | 4.6 | 1.2 | 9498343 | | | |
| Particulate Weight on Filter | ug | 208 | 111 | 30 | 9510682 | 183 | 30 | 9510699 |
| Volume | m3 | 24.05 | 24.05 | N/A | ONSITE | 24.02 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

| Bureau Veritas ID | | ZQJ234 | ZQJ235 | ZQJ236 | ZQJ237 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/06/11 | 2024/06/17 | 2024/06/23 | 2024/06/29 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | BELL TOWERS JUNE 11 PM 2.5 | BELL TOWERS JUNE 17 PM 2.5 | BELL TOWERS JUNE 23 PM 2.5 | BELL TOWERS JUNE 29 PM 2.5 | RDL | QC Batch |
| Particulate | ug/m3 | 4.1 | 3.5 | 5.1 | 3.2 | 1.2 | 9498345 |
| Particulate Weight on Filter | ug | 99 | 84 | 122 | 77 | 30 | 9510699 |
| Volume | m3 | 24.01 | 24.02 | 24.01 | 24.02 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4K4479
Report Date: 2024/07/12

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

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Bureau Veritas Job #: C4K4479
Report Date: 2024/07/12

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: P104312CA001
Your Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your C.O.C. #: N/A

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/09/17**
Report #: R8323209
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4R9854**
**Received: 2024/09/09, 09:58**

Sample Matrix: Filter
# Samples Received: 8

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Particulate Calculation | 7 | N/A | 2024/09/17 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate | 8 | N/A | 2024/09/16 | BRL SOP-00109 | Mthd IO-3-1 |
| Air Volume from LoVol Sampling | 7 | N/A | 2024/09/10 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: P104312CA001
Your Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your C.O.C. #: N/A

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/09/17**
Report #: R8323209
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4R9854**
**Received: 2024/09/09, 09:58**

Encryption Key

Cristina (Maria) Bacchus
Project Manager
17 Sep 2024 17:22:33

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Bureau Veritas Job #: C4R9854
Report Date: 2024/09/17

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | ACEZ95 | ACEZ96 | ACEZ97 | ACEZ98 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/07/05 | 2024/07/11 | 2024/07/12 | 2024/07/17 | | |
| | UNITS | BELL TOWERS JULY 5 W34127974 | BELL TOWERS JULY 11 W34127614 | BELL TOWERS JULY 12 W34127616 BLANK | BELL TOWERS JULY 17 W34127613 | RDL | QC Batch |
| Particulate | ug/m3 | 6.4 | 14.6 | N/A | 3.2 | 1.2 | 9627779 |
| Particulate Weight on Filter | ug | 153 | 350 | 52 (1) | 78 | 30 | 9642708 |
| Volume | m3 | 24.01 | 24.01 | N/A | 24.01 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) Sampling has been done on wrong side of the filter and filter appears to have small particulate.

| Bureau Veritas ID | | ACEZ99 | ACFA00 | ACFA01 | ACFA02 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/07/23 | 2024/07/29 | 2024/08/04 | 2024/08/10 | | |
| | UNITS | BELL TOWERS JULY 23 WC1332637 | BELL TOWERS JULY 29 WC1332644 | BELL TOWERS AUG 4 WC1332638 | BELL TOWERS AUG 10 WC1332646 | RDL | QC Batch |
| Particulate | ug/m3 | 4.5 | 11.7 | 4.3 | 3.7 | 1.2 | 9627779 |
| Particulate Weight on Filter | ug | 109 | 281 | 103 | 89 | 30 | 9642708 |
| Volume | m3 | 24.02 | 24.02 | 24.01 | 24.02 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4R9854
Report Date: 2024/09/17

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** ACEZ95 **Collected:** 2024/07/05
**Sample ID:** BELL TOWERS JULY 5 W34127974 **Shipped:**
**Matrix:** Filter **Received:** 2024/09/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 9627779 | N/A | 2024/09/17 | Automated Statchk |
| Total Particulate | BAL | 9642708 | N/A | 2024/09/16 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/09/10 | Prabhdeep Kaur |

**Bureau Veritas ID:** ACEZ96 **Collected:** 2024/07/11
**Sample ID:** BELL TOWERS JULY 11 W34127614 **Shipped:**
**Matrix:** Filter **Received:** 2024/09/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 9627779 | N/A | 2024/09/17 | Automated Statchk |
| Total Particulate | BAL | 9642708 | N/A | 2024/09/16 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/09/10 | Prabhdeep Kaur |

**Bureau Veritas ID:** ACEZ97 **Collected:** 2024/07/12
**Sample ID:** BELL TOWERS JULY 12 W34127616 BLANK **Shipped:**
**Matrix:** Filter **Received:** 2024/09/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Total Particulate | BAL | 9642708 | N/A | 2024/09/16 | Nancy Dhir |

**Bureau Veritas ID:** ACEZ98 **Collected:** 2024/07/17
**Sample ID:** BELL TOWERS JULY 17 W34127613 **Shipped:**
**Matrix:** Filter **Received:** 2024/09/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 9627779 | N/A | 2024/09/17 | Automated Statchk |
| Total Particulate | BAL | 9642708 | N/A | 2024/09/16 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/09/10 | Prabhdeep Kaur |

**Bureau Veritas ID:** ACEZ99 **Collected:** 2024/07/23
**Sample ID:** BELL TOWERS JULY 23 WC1332637 **Shipped:**
**Matrix:** Filter **Received:** 2024/09/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 9627779 | N/A | 2024/09/17 | Automated Statchk |
| Total Particulate | BAL | 9642708 | N/A | 2024/09/16 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/09/10 | Prabhdeep Kaur |

**Bureau Veritas ID:** ACFA00 **Collected:** 2024/07/29
**Sample ID:** BELL TOWERS JULY 29 WC1332644 **Shipped:**
**Matrix:** Filter **Received:** 2024/09/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 9627779 | N/A | 2024/09/17 | Automated Statchk |



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4R9854
Report Date: 2024/09/17

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** ACFA00 **Collected:** 2024/07/29
**Sample ID:** BELL TOWERS JULY 29 WC1332644 **Shipped:**
**Matrix:** Filter **Received:** 2024/09/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Total Particulate | BAL | 9642708 | N/A | 2024/09/16 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/09/10 | Prabhdeep Kaur |

**Bureau Veritas ID:** ACFA01 **Collected:** 2024/08/04
**Sample ID:** BELL TOWERS AUG 4 WC1332638 **Shipped:**
**Matrix:** Filter **Received:** 2024/09/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 9627779 | N/A | 2024/09/17 | Automated Statchk |
| Total Particulate | BAL | 9642708 | N/A | 2024/09/16 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/09/10 | Prabhdeep Kaur |

**Bureau Veritas ID:** ACFA02 **Collected:** 2024/08/10
**Sample ID:** BELL TOWERS AUG 10 WC1332646 **Shipped:**
**Matrix:** Filter **Received:** 2024/09/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation | CALC | 9627779 | N/A | 2024/09/17 | Automated Statchk |
| Total Particulate | BAL | 9642708 | N/A | 2024/09/16 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/09/10 | Prabhdeep Kaur |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



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Bureau Veritas Job #: C4R9854
Report Date: 2024/09/17

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

C4R9854
2024/09/09 09:58

AIR

CAM FCD-01302 /3

6740 Campobello Rd
Mississauga Ontario ,L5N 2L8
www.bvlabs.com
Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / WSP Canada Inc.
Project Manager: Ryan Fletcher
e-mail: See comments below for email list
Address: 19 Young Street,
Red Lake, ON, CA, P0V 2M0
Phone: 1 647-283-4638 Fax:
Sampled by: JM + CB + EM + AP

**SECTION**

NONT-2024-09-1277

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Run Time | Dust Fall Opening (Inner Diameter) | Dust Fall Opening (Outer Diameter) | Silica | PM 10 | PM 2.5 | Dustfall | TSP | Metals | Mercury |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bell Towers July 5 W34127974 | 24.01 | 16.7 | JULY 5 2024 | 23.59 | | | | | X | | | | |
| Bell Towers July 11 W34127614 | 24.01 | 16.7 | JULY 11 2024 | 23.59 | | | | | X | | | | |
| Bell Towers July 12 W34127616 BLANK | 0 | 0 | JULY 12 2024 | 24 | | | | | X | | | | |
| Bell Towers July 17 W34127613 | 24.01 | 16.7 | JULY 17 2024 | 24 | | | | | X | | | | |
| Bell Towers July 23 WC1332637 | 24.02 | 16.7 | JULY 23 2024 | 23.59 | | | | | X | | | | |
| Bell Towers July 29 WC1332644 | 24.02 | 16.7 | JULY 29 2024 | 24 | | | | | X | | | | |
| Bell Towers Aug 4 WC1332638 | 24.01 | 16.7 | AUG 4 2024 | 23.59 | | | | | X | | | | |
| Bell Towers Aug 10 WC1332646 | 24.02 | 16.7 | AUG 10 2024 | 24 | | | | | X | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: CA0031272.9242
Name: Kinross Project
PO #: P104312CA001
BV Quote #:
BV Contact: Jade Browne

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: GBR_ENV@kinross.com; importer@kinrossgreatbear.ehsdata.com; ryan.fletcher@wsp.com; airgroup@woodplc.com and include a .csv file in MonitorPro format***

Client Signature: EM
Affiliation: Kinross
Date/Time: 9/4/2024

Received by:
Affiliation:
Date/Time: 2024/09/09 09:58

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions*

Your P.O. #: P104312CA001
Your Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your C.O.C. #: N/A

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/09/17**
Report #: R8323209
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4R9854**
**Received: 2024/09/09, 09:58**

Sample Matrix: Filter
# Samples Received: 8

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Particulate Calculation | 7 | N/A | 2024/09/17 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate | 8 | N/A | 2024/09/16 | BRL SOP-00109 | Mthd IO-3-1 |
| Air Volume from LoVol Sampling | 7 | N/A | 2024/09/10 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

Your P.O. #: P104312CA001
Your Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your C.O.C. #: N/A

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/09/17**
Report #: R8323209
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4R9854**
**Received: 2024/09/09, 09:58**

Encryption Key

Cristina (Maria) Bacchus
Project Manager
17 Sep 2024 17:22:33

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Bureau Veritas Job #: C4R9854
Report Date: 2024/09/17

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | ACEZ95 | ACEZ96 | | | ACEZ97 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/07/05 | 2024/07/11 | | | 2024/07/12 | | |
| COC Number | | N/A | N/A | | | N/A | | |
| | UNITS | BELL TOWERS JULY 5 W34127974 | BELL TOWERS JULY 11 W34127614 | RDL | QC Batch | BELL TOWERS JULY 12 W34127616 BLANK | RDL | QC Batch |
| Particulate | ug/m3 | 6.4 | 14.6 | 1.2 | 9627779 | | | |
| Particulate Weight on Filter | ug | 153 | 350 | 30 | 9642708 | 52 (1) | 30 | 9642708 |
| Volume | m3 | 24.01 | 24.01 | N/A | ONSITE | | | |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) Sampling has been done on wrong side of the filter and filter appears to have small particulate.

| Bureau Veritas ID | | ACEZ98 | ACEZ99 | ACFA00 | ACFA01 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/07/17 | 2024/07/23 | 2024/07/29 | 2024/08/04 | | |
| COC Number | | N/A | N/A | N/A | N/A | | |
| | UNITS | BELL TOWERS JULY 17 W34127613 | BELL TOWERS JULY 23 WC1332637 | BELL TOWERS JULY 29 WC1332644 | BELL TOWERS AUG 4 WC1332638 | RDL | QC Batch |
| Particulate | ug/m3 | 3.2 | 4.5 | 11.7 | 4.3 | 1.2 | 9627779 |
| Particulate Weight on Filter | ug | 78 | 109 | 281 | 103 | 30 | 9642708 |
| Volume | m3 | 24.01 | 24.02 | 24.02 | 24.01 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

| Bureau Veritas ID | | ACFA02 | | |
|---|---|---|---|---|
| Sampling Date | | 2024/08/10 | | |
| COC Number | | N/A | | |
| | UNITS | BELL TOWERS AUG 10 WC1332646 | RDL | QC Batch |
| Particulate | ug/m3 | 3.7 | 1.2 | 9627779 |
| Particulate Weight on Filter | ug | 89 | 30 | 9642708 |
| Volume | m3 | 24.02 | N/A | ONSITE |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4R9854
Report Date: 2024/09/17

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: P104312CA001
Your Project #: CA0031272.922
Site Location: KINROSS PROJECT
Your C.O.C. #: N/A

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/09/25**
Report #: R8335039
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4R9866**
**Received: 2024/09/09, 09:58**

Sample Matrix: Filter
# Samples Received: 7

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | 7 | N/A | 2024/09/16 | BRL SOP-00109 | EPA IO-2mod |
| Total Particulate (PM10) | 7 | N/A | 2024/09/13 | BRL SOP-00109 | Mthd IO-3-1 |
| Subcontracting from AT-AMB to BV Novi (1) | 2 | N/A | N/A | | Subcontracting |
| Air Volume from LoVol Sampling | 7 | N/A | 2024/09/10 | | |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
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Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas (Novi), 22345 Roethal Dr. , Novi, MI, 48375

Your P.O. #: P104312CA001
Your Project #: CA0031272.922
Site Location: KINROSS PROJECT
Your C.O.C. #: N/A

**Attention: Kinross Project**

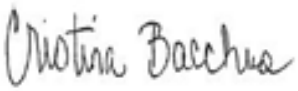
WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/09/25**
Report #: R8335039
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4R9866**
**Received: 2024/09/09, 09:58**

Encryption Key



Cristina (Maria) Bacchus
Project Manager
25 Sep 2024 17:04:36

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763
==========

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Bureau Veritas Job #: C4R9866
Report Date: 2024/09/25

WSP Canada Inc.
Client Project #: CA0031272.922
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | ACFA32 | ACFA33 | ACFA34 | ACFA35 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/07/05 | 2024/07/11 | 2024/07/17 | 2024/07/23 | | |
| | UNITS | TEARDROP JULY 5 47MM PVC 24020712 | TEARDROP JULY 11 W34127615 | TEARDROP JULY 17 W34127623 | TEARDROP JULY 23 W34127624 | RDL | QC Batch |
| PM 10 Particulate | ug/m3 | 8.1 | 26.4 | 5.8 | 8.1 | 1.2 | 9629335 |
| Particulate Weight on Filter | ug | 194 | 635 | 139 | 195 | 30 | 9640325 |
| Volume | m3 | 24.05 | 24.05 | 24.05 | 24.05 | N/A | ONSITE |
| **Subcontracted Analysis** | | | | | | | |
| Subcontract Parameter | N/A | ATTACHED | N/A | N/A | N/A | N/A | 9662436 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

| Bureau Veritas ID | | ACFA36 | ACFA37 | ACFA38 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2024/07/29 | 2024/08/04 | 2024/08/10 | | |
| | UNITS | TEARDROP JULY 29 WC1332643 | TEARDROP AUG 4 47MM PVC 24020713 | TEARDROP AUG 10 WC1332645 | RDL | QC Batch |
| PM 10 Particulate | ug/m3 | 46.9 | <1.2 | 4.3 | 1.2 | 9629335 |
| Particulate Weight on Filter | ug | 1130 | <30 | 103 | 30 | 9640325 |
| Volume | m3 | 24.05 | 24.05 | 24.05 | N/A | ONSITE |
| **Subcontracted Analysis** | | | | | | |
| Subcontract Parameter | N/A | N/A | ATTACHED | N/A | N/A | 9662436 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4R9866
Report Date: 2024/09/25

WSP Canada Inc.
Client Project #: CA0031272.922
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** ACFA32 **Collected:** 2024/07/05
**Sample ID:** TEARDROP JULY 5 47MM PVC 24020712 **Shipped:**
**Matrix:** Filter **Received:** 2024/09/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9629335 | N/A | 2024/09/16 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9640325 | N/A | 2024/09/13 | Nancy Dhir |
| Subcontracting from AT-AMB to BV Novi | | 9662436 | N/A | | Simardeep Kaur |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/09/10 | Prabhdeep Kaur |

**Bureau Veritas ID:** ACFA33 **Collected:** 2024/07/11
**Sample ID:** TEARDROP JULY 11 W34127615 **Shipped:**
**Matrix:** Filter **Received:** 2024/09/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9629335 | N/A | 2024/09/16 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9640325 | N/A | 2024/09/13 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/09/10 | Prabhdeep Kaur |

**Bureau Veritas ID:** ACFA34 **Collected:** 2024/07/17
**Sample ID:** TEARDROP JULY 17 W34127623 **Shipped:**
**Matrix:** Filter **Received:** 2024/09/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9629335 | N/A | 2024/09/16 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9640325 | N/A | 2024/09/13 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/09/10 | Prabhdeep Kaur |

**Bureau Veritas ID:** ACFA35 **Collected:** 2024/07/23
**Sample ID:** TEARDROP JULY 23 W34127624 **Shipped:**
**Matrix:** Filter **Received:** 2024/09/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9629335 | N/A | 2024/09/16 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9640325 | N/A | 2024/09/13 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/09/10 | Prabhdeep Kaur |

**Bureau Veritas ID:** ACFA36 **Collected:** 2024/07/29
**Sample ID:** TEARDROP JULY 29 WC1332643 **Shipped:**
**Matrix:** Filter **Received:** 2024/09/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9629335 | N/A | 2024/09/16 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9640325 | N/A | 2024/09/13 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/09/10 | Prabhdeep Kaur |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4R9866
Report Date: 2024/09/25

WSP Canada Inc.
Client Project #: CA0031272.922
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** ACFA37
**Sample ID:** TEARDROP AUG 4 47MM PVC 24020713
**Matrix:** Filter

**Collected:** 2024/08/04
**Shipped:**
**Received:** 2024/09/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9629335 | N/A | 2024/09/16 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9640325 | N/A | 2024/09/13 | Nancy Dhir |
| Subcontracting from AT-AMB to BV Novi | | 9662436 | N/A | | Simardeep Kaur |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/09/10 | Prabhdeep Kaur |

**Bureau Veritas ID:** ACFA38
**Sample ID:** TEARDROP AUG 10 WC1332645
**Matrix:** Filter

**Collected:** 2024/08/10
**Shipped:**
**Received:** 2024/09/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulate Calculation PM 10 (IO-2mod) | CALC | 9629335 | N/A | 2024/09/16 | Automated Statchk |
| Total Particulate (PM10) | BAL | 9640325 | N/A | 2024/09/13 | Nancy Dhir |
| Air Volume from LoVol Sampling | | ONSITE | N/A | 2024/09/10 | Prabhdeep Kaur |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4R9866
Report Date: 2024/09/25

WSP Canada Inc.
Client Project #: CA0031272.922
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Louise Harding, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

C4R9866
2024/09/09 09:58

AIR

CAM FCD-01302 /3

6740 Campobello Rd
Mississauga Ontario ,L5N 2L8
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / WSP Canada Inc.
Project Manager: Ryan Fletcher
e-mail: See comments below for email list
Address: 19 Young Street,
Red Lake, ON, CA, P0V 2M0
Phone: 1 647-283-4638 Fax:
Sampled by: JM + CB + EM + AP

**SECTION**

NONT-2024-09-1278

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Run Time | Dust Fall Opening (Inner Diameter | Dust Fall Opening (Outer Diameter | Silica | PM 10 | PM 2.5 | Dustfall | TSP | Metals | Mercury | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Teardrop July 5 47mm PVC 24020712 | 24.05 | 16.7 | JULY 5 2024 | 24 | | | X | X | | | | | | | | | | |
| Teardrop July 11 W34127615 | 24.05 | 16.7 | JULY 11 2024 | 24 | | | | X | | | | | | | | | | |
| Teardrop July 17 W34127623 | 24.05 | 16.7 | JULY 17 2024 | 24 | | | | X | | | | | | | | | | |
| Teardrop July 23 W34127624 | 24.05 | 16.7 | JULY 23 2024 | 24 | | | | X | | | | | | | | | | |
| Teardrop July 29 WC1332643 | 24.05 | 16.7 | JULY 29 2024 | 24 | | | | X | | | | | | | | | | |
| Teardrop Aug 4 47mm PVC 24020713 | 24.05 | 16.7 | AUG 4 2024 | 24 | | | X | X | | | | | | | | | | |
| Teardrop Aug 10 WC1332645 | 24.05 | 16.7 | AUG 10 2024 | 24 | | | | X | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: CA0031272.9242
Name: Kinross Project
PO #: P104312CA001
BV Quote #:
BV Contact: Jade Browne

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: GBR_ENV@kinross.com; importer@kinrossgreatbear.ehsdata.com; ryan.fletcher@wsp.com; airgroup@woodplc.com and include a .csv file in MonitorPro format***

Client Signature: EM
Affiliation: Kinross
Date/Time: 9/4/2024

Received by:
Affiliation:
Date/Time: 2024/09/09 0958 1214160

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions*

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: na

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2022/12/07**
Report #: R7419708
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C2Y2559**
**Received: 2022/11/22, 09:22**

Sample Matrix: Filter
# Samples Received: 8

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | 8 | 2022/12/03 | 2022/12/06 | BRL SOP-00104 | EPA 7471B m |
| Total Metals on Hi-Vol Filter (6010Cmod) | 7 | 2022/12/01 | 2022/12/02 | CAM SOP-00408 | EPA 6010D m |
| Total Metals on Hi-Vol Filter (6010Cmod) | 1 | 2022/12/01 | 2022/12/06 | CAM SOP-00408 | EPA 6010D m |
| Particulates on Filter (Method IO-3.1) | 8 | 2022/11/29 | 2022/11/28 | CAM SOP-00942 | Method IO-3.1 |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: na

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2022/12/07**
Report #: R7419708
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C2Y2559**
**Received: 2022/11/22, 09:22**

Encryption Key

Marinela Sim
Project Manager
07 Dec 2022 17:47:44

Please direct all questions regarding this Certificate of Analysis to:
Marinela Sim, Project Manager
Email: Marinela.Sim@bureauveritas.com
Phone# (905)817-5828

==========

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Bureau Veritas Job #: C2Y2559
Report Date: 2022/12/07

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | UJH748 | UJH749 | UJH750 | UJH751 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2022/10/02 | 2022/10/08 | 2022/10/14 | 2022/10/20 | | |
| COC Number | | na | na | na | na | | |
| | UNITS | HI VOL QUARTZ 22081287 BELL TOWERS TSP OCT 02 | HI VOL QUARTZ 22081286 BELL TOWERS TSP OCT 08 | HI VOL QUARTZ 22082584 BELL TOWERS TSP OCT 14 | HI VOL QUARTZ 22082583 BELL TOWERS TSP OCT 20 | RDL | QC Batch |
| Particulate Weight on Filter | mg | 21.3 | 16.8 | <5.0 | 15.7 | 5.0 | 8374518 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

| Bureau Veritas ID | | UJH752 | UJH753 | UJH754 | UJH755 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2022/10/26 | 2022/11/01 | 2022/11/07 | 2022/11/13 | | |
| COC Number | | na | na | na | na | | |
| | UNITS | HI VOL QUARTZ 22082579 BELL TOWERS TSP OCT 26 | HI VOL QUARTZ 22082582 BELL TOWERS TSP NOV1 | HI VOL QUARTZ 22082581 BELL TOWERS TSP NOV 02 | HI VOL QUARTZ 22082580 BELL TOWERS TSP NOV 13 | RDL | QC Batch |
| Particulate Weight on Filter | mg | <5.0 | 11.2 | 11.5 | <5.0 | 5.0 | 8374518 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2Y2559
Report Date: 2022/12/07

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## MERCURY BY COLD VAPOUR AA (FILTER)

| Bureau Veritas ID | | UJH748 | UJH749 | UJH750 | UJH750 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2022/10/02 | 2022/10/08 | 2022/10/14 | 2022/10/14 | | |
| COC Number | | na | na | na | na | | |
| | UNITS | HI VOL QUARTZ 22081287 BELL TOWERS TSP OCT 02 | HI VOL QUARTZ 22081286 BELL TOWERS TSP OCT 08 | HI VOL QUARTZ 22082584 BELL TOWERS TSP OCT 14 | HI VOL QUARTZ 22082584 BELL TOWERS TSP OCT 14 Lab-Dup | RDL | QC Batch |
| **Metals** | | | | | | | |
| Total Mercury (Hg) | ug | <0.02 | <0.02 | <0.02 | <0.02 | 0.02 | 8383004 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

| Bureau Veritas ID | | UJH751 | UJH752 | UJH753 | UJH754 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2022/10/20 | 2022/10/26 | 2022/11/01 | 2022/11/07 | | |
| COC Number | | na | na | na | na | | |
| | UNITS | HI VOL QUARTZ 22082583 BELL TOWERS TSP OCT 20 | HI VOL QUARTZ 22082579 BELL TOWERS TSP OCT 26 | HI VOL QUARTZ 22082582 BELL TOWERS TSP NOV1 | HI VOL QUARTZ 22082581 BELL TOWERS TSP NOV 02 | RDL | QC Batch |
| **Metals** | | | | | | | |
| Total Mercury (Hg) | ug | <0.02 | <0.02 | <0.02 | <0.02 | 0.02 | 8383004 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

| Bureau Veritas ID | | UJH755 | | |
|---|---|---|---|---|
| Sampling Date | | 2022/11/13 | | |
| COC Number | | na | | |
| | UNITS | HI VOL QUARTZ 22082580 BELL TOWERS TSP NOV 13 | RDL | QC Batch |
| **Metals** | | | | |
| Total Mercury (Hg) | ug | <0.02 | 0.02 | 8383004 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | UJH748 | UJH749 | UJH749 | UJH750 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2022/10/02 | 2022/10/08 | 2022/10/08 | 2022/10/14 | | |
| COC Number | | na | na | na | na | | |
| | UNITS | HI VOL QUARTZ 22081287 BELL TOWERS TSP OCT 02 | HI VOL QUARTZ 22081286 BELL TOWERS TSP OCT 08 | HI VOL QUARTZ 22081286 BELL TOWERS TSP OCT 08 Lab-Dup | HI VOL QUARTZ 22082584 BELL TOWERS TSP OCT 14 | RDL | QC Batch |
| **Metals** | | | | | | | |
| Arsenic (As) | ug | <6.0 | <6.0 | <6.0 | <6.0 | 6.0 | 8377752 |
| Cadmium (Cd) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 8377752 |
| Chromium (Cr) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 8377752 |
| Cobalt (Co) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 8377752 |
| Copper (Cu) | ug | 63.8 | 98.2 | 91.8 | 59.4 | 5.0 | 8377752 |
| Iron (Fe) | ug | 234 | 371 | 347 | <50 | 50 | 8377752 |
| Lead (Pb) | ug | 3.3 | <3.0 | <3.0 | <3.0 | 3.0 | 8377752 |
| Lithium (Li) | ug | <27 | <27 | <27 | <27 | 27 | 8377752 |
| Manganese (Mn) | ug | 10.6 | 23.2 | 21.2 | 1.4 | 1.0 | 8377752 |
| Nickel (Ni) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 8377752 |
| Selenium (Se) | ug | <10 | <10 | <10 | <10 | 10 | 8377752 |
| Sulphur (S) | ug | 682 | 448 | 429 | 129 | 25 | 8377752 |
| Vanadium (V) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 8377752 |
| Zinc (Zn) | ug | 30.2 | 16.7 | 19.3 | 7.4 | 5.0 | 8377752 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2Y2559
Report Date: 2022/12/07

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | UJH751 | UJH752 | UJH753 | UJH754 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2022/10/20 | 2022/10/26 | 2022/11/01 | 2022/11/07 | | |
| COC Number | | na | na | na | na | | |
| | UNITS | HI VOL QUARTZ 22082583 BELL TOWERS TSP OCT 20 | HI VOL QUARTZ 22082579 BELL TOWERS TSP OCT 26 | HI VOL QUARTZ 22082582 BELL TOWERS TSP NOV1 | HI VOL QUARTZ 22082581 BELL TOWERS TSP NOV 02 | RDL | QC Batch |
| **Metals** | | | | | | | |
| Arsenic (As) | ug | <6.0 | <6.0 | <6.0 | <6.0 | 6.0 | 8377752 |
| Cadmium (Cd) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 8377752 |
| Chromium (Cr) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 8377752 |
| Cobalt (Co) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 8377752 |
| Copper (Cu) | ug | 47.5 | 75.8 | 80.5 | 80.1 | 5.0 | 8377752 |
| Iron (Fe) | ug | 221 | 64 | 153 | 205 | 50 | 8377752 |
| Lead (Pb) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 8377752 |
| Lithium (Li) | ug | <27 | <27 | <27 | <27 | 27 | 8377752 |
| Manganese (Mn) | ug | 14.8 | 2.0 | 5.4 | 8.5 | 1.0 | 8377752 |
| Nickel (Ni) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 8377752 |
| Selenium (Se) | ug | <10 | <10 | <10 | <10 | 10 | 8377752 |
| Sulphur (S) | ug | 232 | 206 | 384 | 284 | 25 | 8377752 |
| Vanadium (V) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 8377752 |
| Zinc (Zn) | ug | 9.4 | 9.4 | 6.9 | 10.8 | 5.0 | 8377752 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2Y2559
Report Date: 2022/12/07

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | UJH755 | | |
|---|---|---|---|---|
| Sampling Date | | 2022/11/13 | | |
| COC Number | | na | | |
| | UNITS | HI VOL QUARTZ 22082580 BELL TOWERS TSP NOV 13 | RDL | QC Batch |
| **Metals** | | | | |
| Arsenic (As) | ug | <6.0 | 6.0 | 8377752 |
| Cadmium (Cd) | ug | <2.0 | 2.0 | 8377752 |
| Chromium (Cr) | ug | <5.0 | 5.0 | 8377752 |
| Cobalt (Co) | ug | <2.0 | 2.0 | 8377752 |
| Copper (Cu) | ug | 80.7 | 5.0 | 8377752 |
| Iron (Fe) | ug | <50 | 50 | 8377752 |
| Lead (Pb) | ug | <3.0 | 3.0 | 8377752 |
| Lithium (Li) | ug | <27 | 27 | 8377752 |
| Manganese (Mn) | ug | 1.2 | 1.0 | 8377752 |
| Nickel (Ni) | ug | <3.0 | 3.0 | 8377752 |
| Selenium (Se) | ug | <10 | 10 | 8377752 |
| Sulphur (S) | ug | 243 | 25 | 8377752 |
| Vanadium (V) | ug | <5.0 | 5.0 | 8377752 |
| Zinc (Zn) | ug | 6.4 | 5.0 | 8377752 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## TEST SUMMARY

**Bureau Veritas ID:** UJH748 **Collected:** 2022/10/02
**Sample ID:** HI VOL QUARTZ 22081287 BELL TOWERS TSP OCT 02 **Shipped:**
**Matrix:** Filter **Received:** 2022/11/22

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8383004 | 2022/12/03 | 2022/12/06 | Thuy Linh Nguyen |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8377752 | 2022/12/01 | 2022/12/02 | Gagandeep Rai |
| Particulates on Filter (Method IO-3.1) | BAL | 8374518 | 2022/11/29 | 2022/11/28 | Andrea Contreras Arenas |

**Bureau Veritas ID:** UJH749 **Collected:** 2022/10/08
**Sample ID:** HI VOL QUARTZ 22081286 BELL TOWERS TSP OCT 08 **Shipped:**
**Matrix:** Filter **Received:** 2022/11/22

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8383004 | 2022/12/03 | 2022/12/06 | Thuy Linh Nguyen |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8377752 | 2022/12/01 | 2022/12/02 | Gagandeep Rai |
| Particulates on Filter (Method IO-3.1) | BAL | 8374518 | 2022/11/29 | 2022/11/28 | Andrea Contreras Arenas |

**Bureau Veritas ID:** UJH749 Dup **Collected:** 2022/10/08
**Sample ID:** HI VOL QUARTZ 22081286 BELL TOWERS TSP OCT 08 **Shipped:**
**Matrix:** Filter **Received:** 2022/11/22

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8377752 | 2022/12/01 | 2022/12/02 | Gagandeep Rai |

**Bureau Veritas ID:** UJH750 **Collected:** 2022/10/14
**Sample ID:** HI VOL QUARTZ 22082584 BELL TOWERS TSP OCT 14 **Shipped:**
**Matrix:** Filter **Received:** 2022/11/22

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8383004 | 2022/12/03 | 2022/12/06 | Thuy Linh Nguyen |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8377752 | 2022/12/01 | 2022/12/02 | Gagandeep Rai |
| Particulates on Filter (Method IO-3.1) | BAL | 8374518 | 2022/11/29 | 2022/11/28 | Andrea Contreras Arenas |

**Bureau Veritas ID:** UJH750 Dup **Collected:** 2022/10/14
**Sample ID:** HI VOL QUARTZ 22082584 BELL TOWERS TSP OCT 14 **Shipped:**
**Matrix:** Filter **Received:** 2022/11/22

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8383004 | 2022/12/03 | 2022/12/06 | Thuy Linh Nguyen |

**Bureau Veritas ID:** UJH751 **Collected:** 2022/10/20
**Sample ID:** HI VOL QUARTZ 22082583 BELL TOWERS TSP OCT 20 **Shipped:**
**Matrix:** Filter **Received:** 2022/11/22

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8383004 | 2022/12/03 | 2022/12/06 | Thuy Linh Nguyen |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8377752 | 2022/12/01 | 2022/12/06 | Gagandeep Rai |
| Particulates on Filter (Method IO-3.1) | BAL | 8374518 | 2022/11/29 | 2022/11/28 | Andrea Contreras Arenas |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2Y2559
Report Date: 2022/12/07

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** UJH752 **Collected:** 2022/10/26
**Sample ID:** HI VOL QUARTZ 22082579 BELL TOWERS TSP OCT 26 **Shipped:**
**Matrix:** Filter **Received:** 2022/11/22

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8383004 | 2022/12/03 | 2022/12/06 | Thuy Linh Nguyen |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8377752 | 2022/12/01 | 2022/12/02 | Gagandeep Rai |
| Particulates on Filter (Method IO-3.1) | BAL | 8374518 | 2022/11/29 | 2022/11/28 | Andrea Contreras Arenas |

**Bureau Veritas ID:** UJH753 **Collected:** 2022/11/01
**Sample ID:** HI VOL QUARTZ 22082582 BELL TOWERS TSP NOV1 **Shipped:**
**Matrix:** Filter **Received:** 2022/11/22

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8383004 | 2022/12/03 | 2022/12/06 | Thuy Linh Nguyen |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8377752 | 2022/12/01 | 2022/12/02 | Gagandeep Rai |
| Particulates on Filter (Method IO-3.1) | BAL | 8374518 | 2022/11/29 | 2022/11/28 | Andrea Contreras Arenas |

**Bureau Veritas ID:** UJH754 **Collected:** 2022/11/07
**Sample ID:** HI VOL QUARTZ 22082581 BELL TOWERS TSP NOV 02 **Shipped:**
**Matrix:** Filter **Received:** 2022/11/22

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8383004 | 2022/12/03 | 2022/12/06 | Thuy Linh Nguyen |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8377752 | 2022/12/01 | 2022/12/02 | Gagandeep Rai |
| Particulates on Filter (Method IO-3.1) | BAL | 8374518 | 2022/11/29 | 2022/11/28 | Andrea Contreras Arenas |

**Bureau Veritas ID:** UJH755 **Collected:** 2022/11/13
**Sample ID:** HI VOL QUARTZ 22082580 BELL TOWERS TSP NOV 13 **Shipped:**
**Matrix:** Filter **Received:** 2022/11/22

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8383004 | 2022/12/03 | 2022/12/06 | Thuy Linh Nguyen |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8377752 | 2022/12/01 | 2022/12/02 | Gagandeep Rai |
| Particulates on Filter (Method IO-3.1) | BAL | 8374518 | 2022/11/29 | 2022/11/28 | Andrea Contreras Arenas |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

| | |
|---|---|
| Package 1 | 12.0°C |

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

# QUALITY ASSURANCE REPORT



| | | | Matrix Spike | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8377752 | Arsenic (As) | 2022/12/02 | 103 (1) | 75 - 125 | 103 | 85 - 115 | <6.0 | ug | NC (3) | 20 |
| 8377752 | Cadmium (Cd) | 2022/12/02 | 105 (1) | 75 - 125 | 104 | 85 - 115 | <2.0 | ug | NC (3) | 20 |
| 8377752 | Chromium (Cr) | 2022/12/02 | 106 (1) | 75 - 125 | 106 | 85 - 115 | <5.0 | ug | NC (3) | 20 |
| 8377752 | Cobalt (Co) | 2022/12/02 | 102 (1) | 75 - 125 | 102 | 85 - 115 | <2.0 | ug | NC (3) | 20 |
| 8377752 | Copper (Cu) | 2022/12/02 | 104 (1) | 75 - 125 | 100 | 85 - 115 | <5.0 | ug | 6.7 (3) | 20 |
| 8377752 | Iron (Fe) | 2022/12/02 | 101 (1) | 75 - 125 | 100 | 85 - 115 | <50 | ug | 6.5 (3) | 20 |
| 8377752 | Lead (Pb) | 2022/12/02 | 103 (1) | 75 - 125 | 103 | 85 - 115 | <3.0 | ug | NC (3) | 20 |
| 8377752 | Lithium (Li) | 2022/12/02 | | | | | <27 | ug | NC (3) | 20 |
| 8377752 | Manganese (Mn) | 2022/12/02 | 105 (1) | 75 - 125 | 104 | 85 - 115 | <1.0 | ug | 8.9 (3) | 20 |
| 8377752 | Nickel (Ni) | 2022/12/02 | 105 (1) | 75 - 125 | 105 | 85 - 115 | <3.0 | ug | NC (3) | 20 |
| 8377752 | Selenium (Se) | 2022/12/02 | 109 (1) | 75 - 125 | 107 | 85 - 115 | <10 | ug | NC (3) | 20 |
| 8377752 | Sulphur (S) | 2022/12/02 | 107 (1) | 75 - 125 | 101 | 85 - 115 | <25 | ug | 4.3 (3) | 20 |
| 8377752 | Vanadium (V) | 2022/12/02 | 102 (1) | 75 - 125 | 101 | 85 - 115 | <5.0 | ug | NC (3) | 20 |
| 8377752 | Zinc (Zn) | 2022/12/02 | 103 (1) | 75 - 125 | 101 | 85 - 115 | <5.0 | ug | 15 (3) | 20 |
| 8383004 | Total Mercury (Hg) | 2022/12/06 | 88 (4) | 80 - 120 | 99 | 90 - 110 | <0.002 | ug | NC (5) | 20 |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Matrix Spike Parent ID [UJH749-01]

(2) Duplicate Parent ID

(3) Duplicate Parent ID [UJH749-01]

(4) Matrix Spike Parent ID [UJH750-01]

(5) Duplicate Parent ID [UJH750-01]



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2Y2559
Report Date: 2022/12/07

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

JOB #

CLIENT NAME: Private - Individuals



## Internal Sample Receipt Form

| | Sample Identification | Date Sampled | Time Sampled | Matrix | # of Bottles | Comments |
|---|---|---|---|---|---|---|
| 1 | Bell Tower 22082584 | Oct 14 | | | | |
| 2 | Bell Tower 22082583 | Oct 20 | | | | |
| 3 | Bell Tower 22081286 | Oct 8 | | | | |
| 4 | Bell Tower TSP 22081287 | Oct -02 | | | | |
| 5 | Bell Tower 22082579 | Oct 26 | | | | |
| 6 | Bell Towers 22082582 | Nov 1 | | | | |
| 7 | Bell Towers 22082581 | Nov 7 | | | | |
| 8 | Bell Towers 22082580 | Nov 13 | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |

22-Nov-22 09:22
Lori Dufour
C2Y2559
MUM AIR-RmTmp

| Received by (Signature & Print): | Date | Time | Cooler ID | Temperature | Custody seal Present | | Custody Seal Intact | | Ice Present | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | YES | NO | YES | NO | YES | NO |
| 2 M TRINH | 2022/11/22 | 0122 | | 11/13 | | ✓ | | ✓ | | ✓ |
| | | | | | | | | | | |

22-Nov-22 09:22
Cristina (Maria) Bacchus
C2Y2559

MUM AIR-RmTmp

CAM FCD-01302 /3

# CHAIN OF CUSTODY FORM - AIR

Page ____ of ____


illo Rd
ntario ,L5N 2L8
www.bvlabs.com
Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777


**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 19 Young Street
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM + CR

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening (Inner Diameter | Dust Fall Opening (Outer Diameter | Silica | PM 10 | Dustfall | TSP | Mercury | Metals | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hi Vol Quartz 22081287 Bell Towers TSP Oct 02 | | | 2-Oct | | | | | | | X | X | X | | | | | |
| Hi Vol Quartz 22081286 Bell Towers TSP Oct 08 | | | 8-Oct | | | | | | | X | X | X | | | | | |
| Hi Vol Quartz 22082584 Bell Towers TSP Oct 14 | | | 14-Oct | | | | | | | X | X | X | | | | | |
| Hi Vol Quartz 22082583 Bell Towers TSP Oct 20 | | | 20-Oct | | | | | | | X | X | X | | | | | |
| Hi Vol Quartz 22082579 Bell Towers TSP Oct 26 | | | 26-Oct | | | | | | | X | X | X | | | | | |
| Hi Vol Quartz 22082582 Bell Towers TSP Nov 1 | | | 1-Nov | | | | | | | X | X | X | | | | | |
| Hi Vol Quartz 22082581 Bell Towers TSP Nov 7 | | | 7-Nov | | | | | | | X | X | X | | | | | |
| Hi Vol Quartz 22082580 Bell Towers TSP Nov 13 | | | 13-Nov | | | | | | | X | X | X | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com***

Client Signature:
Affiliation:
Date/Time:

Received by:
Affiliation:
Date/Time:


*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions*

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: na

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2022/12/07**
Report #: R7419708
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C2Y2559**
**Received: 2022/11/22, 09:22**

Sample Matrix: Filter
# Samples Received: 8

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | 8 | 2022/12/03 | 2022/12/06 | BRL SOP-00104 | EPA 7471B m |
| Total Metals on Hi-Vol Filter (6010Cmod) | 7 | 2022/12/01 | 2022/12/02 | CAM SOP-00408 | EPA 6010D m |
| Total Metals on Hi-Vol Filter (6010Cmod) | 1 | 2022/12/01 | 2022/12/06 | CAM SOP-00408 | EPA 6010D m |
| Particulates on Filter (Method IO-3.1) | 8 | 2022/11/29 | 2022/11/28 | CAM SOP-00942 | Method IO-3.1 |

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

Encryption Key

Marinela Sim
Project Manager
07 Dec 2022 17:47:46

Please direct all questions regarding this Certificate of Analysis to:
Marinela Sim, Project Manager
Email: Marinela.Sim@bureauveritas.com
Phone# (905)817-5828

==========

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Bureau Veritas Job #: C2Y2559
Report Date: 2022/12/07

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | UJH748 | UJH749 | UJH750 | UJH751 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2022/10/02 | 2022/10/08 | 2022/10/14 | 2022/10/20 | | |
| COC Number | | na | na | na | na | | |
| | UNITS | HI VOL QUARTZ 22081287 BELL TOWERS TSP OCT 02 | HI VOL QUARTZ 22081286 BELL TOWERS TSP OCT 08 | HI VOL QUARTZ 22082584 BELL TOWERS TSP OCT 14 | HI VOL QUARTZ 22082583 BELL TOWERS TSP OCT 20 | RDL | QC Batch |
| Particulate Weight on Filter | mg | 21.3 | 16.8 | <5.0 | 15.7 | 5.0 | 8374518 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

| Bureau Veritas ID | | UJH752 | UJH753 | UJH754 | UJH755 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2022/10/26 | 2022/11/01 | 2022/11/07 | 2022/11/13 | | |
| COC Number | | na | na | na | na | | |
| | UNITS | HI VOL QUARTZ 22082579 BELL TOWERS TSP OCT 26 | HI VOL QUARTZ 22082582 BELL TOWERS TSP NOV1 | HI VOL QUARTZ 22082581 BELL TOWERS TSP NOV 02 | HI VOL QUARTZ 22082580 BELL TOWERS TSP NOV 13 | RDL | QC Batch |
| Particulate Weight on Filter | mg | <5.0 | 11.2 | 11.5 | <5.0 | 5.0 | 8374518 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2Y2559
Report Date: 2022/12/07

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## MERCURY BY COLD VAPOUR AA (FILTER)

| Bureau Veritas ID | | UJH748 | UJH749 | UJH750 | UJH751 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2022/10/02 | 2022/10/08 | 2022/10/14 | 2022/10/20 | | |
| COC Number | | na | na | na | na | | |
| | UNITS | HI VOL QUARTZ 22081287 BELL TOWERS TSP OCT 02 | HI VOL QUARTZ 22081286 BELL TOWERS TSP OCT 08 | HI VOL QUARTZ 22082584 BELL TOWERS TSP OCT 14 | HI VOL QUARTZ 22082583 BELL TOWERS TSP OCT 20 | RDL | QC Batch |
| **Metals** | | | | | | | |
| Total Mercury (Hg) | ug | <0.02 | <0.02 | <0.02 | <0.02 | 0.02 | 8383004 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

| Bureau Veritas ID | | UJH752 | UJH753 | UJH754 | UJH755 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2022/10/26 | 2022/11/01 | 2022/11/07 | 2022/11/13 | | |
| COC Number | | na | na | na | na | | |
| | UNITS | HI VOL QUARTZ 22082579 BELL TOWERS TSP OCT 26 | HI VOL QUARTZ 22082582 BELL TOWERS TSP NOV1 | HI VOL QUARTZ 22082581 BELL TOWERS TSP NOV 02 | HI VOL QUARTZ 22082580 BELL TOWERS TSP NOV 13 | RDL | QC Batch |
| **Metals** | | | | | | | |
| Total Mercury (Hg) | ug | <0.02 | <0.02 | <0.02 | <0.02 | 0.02 | 8383004 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2Y2559
Report Date: 2022/12/07

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | UJH748 | UJH749 | UJH750 | UJH751 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2022/10/02 | 2022/10/08 | 2022/10/14 | 2022/10/20 | | |
| COC Number | | na | na | na | na | | |
| | UNITS | HI VOL QUARTZ 22081287 BELL TOWERS TSP OCT 02 | HI VOL QUARTZ 22081286 BELL TOWERS TSP OCT 08 | HI VOL QUARTZ 22082584 BELL TOWERS TSP OCT 14 | HI VOL QUARTZ 22082583 BELL TOWERS TSP OCT 20 | RDL | QC Batch |
| **Metals** | | | | | | | |
| Arsenic (As) | ug | <6.0 | <6.0 | <6.0 | <6.0 | 6.0 | 8377752 |
| Cadmium (Cd) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 8377752 |
| Chromium (Cr) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 8377752 |
| Cobalt (Co) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 8377752 |
| Copper (Cu) | ug | 63.8 | 98.2 | 59.4 | 47.5 | 5.0 | 8377752 |
| Iron (Fe) | ug | 234 | 371 | <50 | 221 | 50 | 8377752 |
| Lead (Pb) | ug | 3.3 | <3.0 | <3.0 | <3.0 | 3.0 | 8377752 |
| Lithium (Li) | ug | <27 | <27 | <27 | <27 | 27 | 8377752 |
| Manganese (Mn) | ug | 10.6 | 23.2 | 1.4 | 14.8 | 1.0 | 8377752 |
| Nickel (Ni) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 8377752 |
| Selenium (Se) | ug | <10 | <10 | <10 | <10 | 10 | 8377752 |
| Sulphur (S) | ug | 682 | 448 | 129 | 232 | 25 | 8377752 |
| Vanadium (V) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 8377752 |
| Zinc (Zn) | ug | 30.2 | 16.7 | 7.4 | 9.4 | 5.0 | 8377752 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2Y2559
Report Date: 2022/12/07

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | UJH752 | UJH753 | UJH754 | UJH755 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2022/10/26 | 2022/11/01 | 2022/11/07 | 2022/11/13 | | |
| COC Number | | na | na | na | na | | |
| | UNITS | HI VOL QUARTZ 22082579 BELL TOWERS TSP OCT 26 | HI VOL QUARTZ 22082582 BELL TOWERS TSP NOV1 | HI VOL QUARTZ 22082581 BELL TOWERS TSP NOV 02 | HI VOL QUARTZ 22082580 BELL TOWERS TSP NOV 13 | RDL | QC Batch |
| **Metals** | | | | | | | |
| Arsenic (As) | ug | <6.0 | <6.0 | <6.0 | <6.0 | 6.0 | 8377752 |
| Cadmium (Cd) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 8377752 |
| Chromium (Cr) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 8377752 |
| Cobalt (Co) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 8377752 |
| Copper (Cu) | ug | 75.8 | 80.5 | 80.1 | 80.7 | 5.0 | 8377752 |
| Iron (Fe) | ug | 64 | 153 | 205 | <50 | 50 | 8377752 |
| Lead (Pb) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 8377752 |
| Lithium (Li) | ug | <27 | <27 | <27 | <27 | 27 | 8377752 |
| Manganese (Mn) | ug | 2.0 | 5.4 | 8.5 | 1.2 | 1.0 | 8377752 |
| Nickel (Ni) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 8377752 |
| Selenium (Se) | ug | <10 | <10 | <10 | <10 | 10 | 8377752 |
| Sulphur (S) | ug | 206 | 384 | 284 | 243 | 25 | 8377752 |
| Vanadium (V) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 8377752 |
| Zinc (Zn) | ug | 9.4 | 6.9 | 10.8 | 6.4 | 5.0 | 8377752 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2Y2559
Report Date: 2022/12/07

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 8377752 | GR1 | Matrix Spike [UJH749-01] | Arsenic (As) | 2022/12/02 | | 103 | % | 75 - 125 |
| | | | Cadmium (Cd) | 2022/12/02 | | 105 | % | 75 - 125 |
| | | | Chromium (Cr) | 2022/12/02 | | 106 | % | 75 - 125 |
| | | | Cobalt (Co) | 2022/12/02 | | 102 | % | 75 - 125 |
| | | | Copper (Cu) | 2022/12/02 | | 104 | % | 75 - 125 |
| | | | Iron (Fe) | 2022/12/02 | | 101 | % | 75 - 125 |
| | | | Lead (Pb) | 2022/12/02 | | 103 | % | 75 - 125 |
| | | | Manganese (Mn) | 2022/12/02 | | 105 | % | 75 - 125 |
| | | | Nickel (Ni) | 2022/12/02 | | 105 | % | 75 - 125 |
| | | | Selenium (Se) | 2022/12/02 | | 109 | % | 75 - 125 |
| | | | Sulphur (S) | 2022/12/02 | | 107 | % | 75 - 125 |
| | | | Vanadium (V) | 2022/12/02 | | 102 | % | 75 - 125 |
| | | | Zinc (Zn) | 2022/12/02 | | 103 | % | 75 - 125 |
| 8377752 | GR1 | RPD [UJH749-01] | Arsenic (As) | 2022/12/02 | 1.6 | | % | 20 |
| | | | Cadmium (Cd) | 2022/12/02 | 0.19 | | % | 20 |
| | | | Chromium (Cr) | 2022/12/02 | 0.094 | | % | 20 |
| | | | Cobalt (Co) | 2022/12/02 | 0.39 | | % | 20 |
| | | | Copper (Cu) | 2022/12/02 | 0.38 | | % | 20 |
| | | | Iron (Fe) | 2022/12/02 | 0.099 | | % | 20 |
| | | | Lead (Pb) | 2022/12/02 | 0.68 | | % | 20 |
| | | | Manganese (Mn) | 2022/12/02 | 0.096 | | % | 20 |
| | | | Nickel (Ni) | 2022/12/02 | 0.67 | | % | 20 |
| | | | Selenium (Se) | 2022/12/02 | 1.4 | | % | 20 |
| | | | Sulphur (S) | 2022/12/02 | 3.2 | | % | 20 |
| | | | Vanadium (V) | 2022/12/02 | 0.29 | | % | 20 |
| | | | Zinc (Zn) | 2022/12/02 | 0.78 | | % | 20 |
| | | | Arsenic (As) | 2022/12/02 | NC | | % | 20 |
| | | | Cadmium (Cd) | 2022/12/02 | NC | | % | 20 |
| | | | Chromium (Cr) | 2022/12/02 | NC | | % | 20 |
| | | | Cobalt (Co) | 2022/12/02 | NC | | % | 20 |
| | | | Copper (Cu) | 2022/12/02 | 6.7 | | % | 20 |
| | | | Iron (Fe) | 2022/12/02 | 6.5 | | % | 20 |
| | | | Lead (Pb) | 2022/12/02 | NC | | % | 20 |
| | | | Lithium (Li) | 2022/12/02 | NC | | % | 20 |
| | | | Manganese (Mn) | 2022/12/02 | 8.9 | | % | 20 |
| | | | Nickel (Ni) | 2022/12/02 | NC | | % | 20 |
| | | | Selenium (Se) | 2022/12/02 | NC | | % | 20 |
| | | | Sulphur (S) | 2022/12/02 | 4.3 | | % | 20 |
| | | | Vanadium (V) | 2022/12/02 | NC | | % | 20 |
| | | | Zinc (Zn) | 2022/12/02 | 15 | | % | 20 |
| 8377752 | GR1 | Spiked Blank | Arsenic (As) | 2022/12/02 | | 103 | % | 85 - 115 |
| | | | Cadmium (Cd) | 2022/12/02 | | 104 | % | 85 - 115 |
| | | | Chromium (Cr) | 2022/12/02 | | 106 | % | 85 - 115 |
| | | | Cobalt (Co) | 2022/12/02 | | 102 | % | 85 - 115 |
| | | | Copper (Cu) | 2022/12/02 | | 100 | % | 85 - 115 |
| | | | Iron (Fe) | 2022/12/02 | | 100 | % | 85 - 115 |
| | | | Lead (Pb) | 2022/12/02 | | 103 | % | 85 - 115 |
| | | | Manganese (Mn) | 2022/12/02 | | 104 | % | 85 - 115 |
| | | | Nickel (Ni) | 2022/12/02 | | 105 | % | 85 - 115 |
| | | | Selenium (Se) | 2022/12/02 | | 107 | % | 85 - 115 |
| | | | Sulphur (S) | 2022/12/02 | | 101 | % | 85 - 115 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Vanadium (V) | 2022/12/02 | | 101 | % | 85 - 115 |
| | | | Zinc (Zn) | 2022/12/02 | | 101 | % | 85 - 115 |
| 8377752 | GR1 | RPD | Arsenic (As) | 2022/12/02 | 1.3 | | % | 20 |
| | | | Cadmium (Cd) | 2022/12/02 | 1.9 | | % | 20 |
| | | | Chromium (Cr) | 2022/12/02 | 1.9 | | % | 20 |
| | | | Cobalt (Co) | 2022/12/02 | 1.5 | | % | 20 |
| | | | Copper (Cu) | 2022/12/02 | 1.5 | | % | 20 |
| | | | Iron (Fe) | 2022/12/02 | 1.0 | | % | 20 |
| | | | Lead (Pb) | 2022/12/02 | 1.6 | | % | 20 |
| | | | Manganese (Mn) | 2022/12/02 | 1.6 | | % | 20 |
| | | | Nickel (Ni) | 2022/12/02 | 1.5 | | % | 20 |
| | | | Selenium (Se) | 2022/12/02 | 0.47 | | % | 20 |
| | | | Sulphur (S) | 2022/12/02 | 1.7 | | % | 20 |
| | | | Vanadium (V) | 2022/12/02 | 1.7 | | % | 20 |
| | | | Zinc (Zn) | 2022/12/02 | 0.79 | | % | 20 |
| 8377752 | GR1 | Method Blank | Arsenic (As) | 2022/12/02 | <6.0 | | ug | |
| | | | Cadmium (Cd) | 2022/12/02 | <2.0 | | ug | |
| | | | Chromium (Cr) | 2022/12/02 | <5.0 | | ug | |
| | | | Cobalt (Co) | 2022/12/02 | <2.0 | | ug | |
| | | | Copper (Cu) | 2022/12/02 | <5.0 | | ug | |
| | | | Iron (Fe) | 2022/12/02 | <50 | | ug | |
| | | | Lead (Pb) | 2022/12/02 | <3.0 | | ug | |
| | | | Lithium (Li) | 2022/12/02 | <27 | | ug | |
| | | | Manganese (Mn) | 2022/12/02 | <1.0 | | ug | |
| | | | Nickel (Ni) | 2022/12/02 | <3.0 | | ug | |
| | | | Selenium (Se) | 2022/12/02 | <10 | | ug | |
| | | | Sulphur (S) | 2022/12/02 | <25 | | ug | |
| | | | Vanadium (V) | 2022/12/02 | <5.0 | | ug | |
| | | | Zinc (Zn) | 2022/12/02 | <5.0 | | ug | |
| 8383004 | TLG | Matrix Spike [UJH750-01] | Total Mercury (Hg) | 2022/12/06 | | 88 | % | 80 - 120 |
| 8383004 | TLG | RPD [UJH750-01] | Total Mercury (Hg) | 2022/12/06 | 1.4 | | % | 20 |
| | | | Total Mercury (Hg) | 2022/12/06 | NC | | % | 20 |
| 8383004 | TLG | Spiked Blank | Total Mercury (Hg) | 2022/12/06 | | 99 | % | 90 - 110 |
| 8383004 | TLG | RPD | Total Mercury (Hg) | 2022/12/06 | 0.81 | | % | 20 |
| 8383004 | TLG | Method Blank | Total Mercury (Hg) | 2022/12/06 | <0.002 | | ug | |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2Y2559
Report Date: 2022/12/07

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/01/11**
Report #: R7461158
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C2AR395**
**Received: 2022/12/23, 09:48**

Sample Matrix: Filter
# Samples Received: 6

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | 6 | 2023/01/09 | 2023/01/10 | BRL SOP-00104 | EPA 7471B m |
| Total Metals on Hi-Vol Filter (6010Cmod) | 6 | 2023/01/09 | 2023/01/09 | CAM SOP-00408 | EPA 6010D m |
| Particulates on Filter (Method IO-3.1) | 6 | 2023/01/05 | 2023/01/04 | CAM SOP-00942 | Method IO-3.1 |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

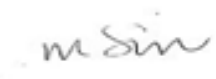
WSP E & I Canada Limited
160 Traders Blvd
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/01/11**
Report #: R7461158
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C2AR395**
**Received: 2022/12/23, 09:48**

Encryption Key



Marinela Sim
Project Manager
11 Jan 2023 18:18:47

Please direct all questions regarding this Certificate of Analysis to:
Marinela Sim, Project Manager
Email: Marinela.Sim@bureauveritas.com
Phone# (905)817-5828

==========

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2AR395
Report Date: 2023/01/11

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | URD774 | URD775 | URD776 | URD777 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2022/11/19 | 2022/11/25 | 2022/12/01 | 2022/12/07 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | HI VOL QUARTZ 22081288 BELL TOWERS TSP NOV19 | HI VOL QUARTZ 22081285 BELL TOWERS TSP NOV25 | HI VOL QUARTZ 22101758 BELL TOWERS TSP DEC1 | HI VOL QUARTZ 22101763 BELL TOWERS TSP DEC7 | RDL | QC Batch |
| Particulate Weight on Filter | mg | <5.0 | <5.0 | <5.0 | <5.0 (1) | 5.0 | 8433922 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Negative weight observed

| Bureau Veritas ID | | URD778 | URD779 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2022/12/12 | 2022/12/19 | | |
| COC Number | | n/a | n/a | | |
| | UNITS | HI VOL QUARTZ 22101759 BELL TOWERS TSP DEC12 | HI VOL QUARTZ 22101760 BELL TOWERS TSP DEC19 | RDL | QC Batch |
| Particulate Weight on Filter | mg | <5.0 (1) | <5.0 | 5.0 | 8433922 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Negative weight observed as edges of filter found to be frayed



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Bureau Veritas Job #: C2AR395
Report Date: 2023/01/11

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## MERCURY BY COLD VAPOUR AA (FILTER)

| Bureau Veritas ID | | URD774 | URD775 | URD776 | URD776 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2022/11/19 | 2022/11/25 | 2022/12/01 | 2022/12/01 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | HI VOL QUARTZ 22081288 BELL TOWERS TSP NOV19 | HI VOL QUARTZ 22081285 BELL TOWERS TSP NOV25 | HI VOL QUARTZ 22101758 BELL TOWERS TSP DEC1 | HI VOL QUARTZ 22101758 BELL TOWERS TSP DEC1 Lab-Dup | RDL | QC Batch |
| **Metals** | | | | | | | |
| Total Mercury (Hg) | ug | <0.02 | <0.02 | <0.02 | <0.02 | 0.02 | 8439379 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

| Bureau Veritas ID | | URD777 | URD778 | URD779 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2022/12/07 | 2022/12/12 | 2022/12/19 | | |
| COC Number | | n/a | n/a | n/a | | |
| | UNITS | HI VOL QUARTZ 22101763 BELL TOWERS TSP DEC7 | HI VOL QUARTZ 22101759 BELL TOWERS TSP DEC12 | HI VOL QUARTZ 22101760 BELL TOWERS TSP DEC19 | RDL | QC Batch |
| **Metals** | | | | | | |
| Total Mercury (Hg) | ug | <0.02 | <0.02 | <0.02 | 0.02 | 8439379 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2AR395
Report Date: 2023/01/11

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | URD774 | URD775 | URD776 | URD777 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2022/11/19 | 2022/11/25 | 2022/12/01 | 2022/12/07 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | HI VOL QUARTZ 22081288 BELL TOWERS TSP NOV19 | HI VOL QUARTZ 22081285 BELL TOWERS TSP NOV25 | HI VOL QUARTZ 22101758 BELL TOWERS TSP DEC1 | HI VOL QUARTZ 22101763 BELL TOWERS TSP DEC7 | RDL | QC Batch |
| **Metals** | | | | | | | |
| Arsenic (As) | ug | <6.0 | <6.0 | <6.0 | <6.0 | 6.0 | 8439075 |
| Cadmium (Cd) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 8439075 |
| Chromium (Cr) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 8439075 |
| Cobalt (Co) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 8439075 |
| Copper (Cu) | ug | 84.5 | 105 | 298 | 92.1 | 5.0 | 8439075 |
| Iron (Fe) | ug | 82 | 66 | 289 | 56 | 50 | 8439075 |
| Lead (Pb) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 8439075 |
| Lithium (Li) | ug | <27 | <27 | <27 | <27 | 27 | 8439075 |
| Manganese (Mn) | ug | 2.9 | 2.5 | 9.5 | 1.0 | 1.0 | 8439075 |
| Nickel (Ni) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 8439075 |
| Selenium (Se) | ug | <10 | <10 | <10 | <10 | 10 | 8439075 |
| Sulphur (S) | ug | 355 | 367 | 290 | 248 | 25 | 8439075 |
| Vanadium (V) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 8439075 |
| Zinc (Zn) | ug | 11.7 | 12.3 | 17.1 | 8.0 | 5.0 | 8439075 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | URD777 | URD778 | URD779 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2022/12/07 | 2022/12/12 | 2022/12/19 | | |
| COC Number | | n/a | n/a | n/a | | |
| | UNITS | HI VOL QUARTZ 22101763 BELL TOWERS TSP DEC7 Lab-Dup | HI VOL QUARTZ 22101759 BELL TOWERS TSP DEC12 | HI VOL QUARTZ 22101760 BELL TOWERS TSP DEC19 | RDL | QC Batch |
| **Metals** | | | | | | |
| Arsenic (As) | ug | <6.0 | <6.0 | <6.0 | 6.0 | 8439075 |
| Cadmium (Cd) | ug | <2.0 | <2.0 | <2.0 | 2.0 | 8439075 |
| Chromium (Cr) | ug | <5.0 | <5.0 | <5.0 | 5.0 | 8439075 |
| Cobalt (Co) | ug | <2.0 | <2.0 | <2.0 | 2.0 | 8439075 |
| Copper (Cu) | ug | 91.6 | 52.3 | 258 | 5.0 | 8439075 |
| Iron (Fe) | ug | 54 | <50 | <50 | 50 | 8439075 |
| Lead (Pb) | ug | <3.0 | <3.0 | <3.0 | 3.0 | 8439075 |
| Lithium (Li) | ug | <27 | <27 | <27 | 27 | 8439075 |
| Manganese (Mn) | ug | 1.3 | <1.0 | <1.0 | 1.0 | 8439075 |
| Nickel (Ni) | ug | <3.0 | <3.0 | <3.0 | 3.0 | 8439075 |
| Selenium (Se) | ug | <10 | <10 | <10 | 10 | 8439075 |
| Sulphur (S) | ug | 246 | 254 | 225 | 25 | 8439075 |
| Vanadium (V) | ug | <5.0 | <5.0 | <5.0 | 5.0 | 8439075 |
| Zinc (Zn) | ug | 8.1 | 6.4 | 7.8 | 5.0 | 8439075 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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## TEST SUMMARY

**Bureau Veritas ID:** URD774 **Collected:** 2022/11/19
**Sample ID:** HI VOL QUARTZ 22081288 BELL TOWERS TSP NOV19 **Shipped:**
**Matrix:** Filter **Received:** 2022/12/23

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8439379 | 2023/01/09 | 2023/01/10 | Thuy Linh Nguyen |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8439075 | 2023/01/09 | 2023/01/09 | Jolly John |
| Particulates on Filter (Method IO-3.1) | BAL | 8433922 | 2023/01/05 | 2023/01/04 | Nancy Dhir |

**Bureau Veritas ID:** URD775 **Collected:** 2022/11/25
**Sample ID:** HI VOL QUARTZ 22081285 BELL TOWERS TSP NOV25 **Shipped:**
**Matrix:** Filter **Received:** 2022/12/23

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8439379 | 2023/01/09 | 2023/01/10 | Thuy Linh Nguyen |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8439075 | 2023/01/09 | 2023/01/09 | Jolly John |
| Particulates on Filter (Method IO-3.1) | BAL | 8433922 | 2023/01/05 | 2023/01/04 | Nancy Dhir |

**Bureau Veritas ID:** URD776 **Collected:** 2022/12/01
**Sample ID:** HI VOL QUARTZ 22101758 BELL TOWERS TSP DEC1 **Shipped:**
**Matrix:** Filter **Received:** 2022/12/23

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8439379 | 2023/01/09 | 2023/01/10 | Thuy Linh Nguyen |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8439075 | 2023/01/09 | 2023/01/09 | Jolly John |
| Particulates on Filter (Method IO-3.1) | BAL | 8433922 | 2023/01/05 | 2023/01/04 | Nancy Dhir |

**Bureau Veritas ID:** URD776 Dup **Collected:** 2022/12/01
**Sample ID:** HI VOL QUARTZ 22101758 BELL TOWERS TSP DEC1 **Shipped:**
**Matrix:** Filter **Received:** 2022/12/23

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8439379 | 2023/01/09 | 2023/01/10 | Thuy Linh Nguyen |

**Bureau Veritas ID:** URD777 **Collected:** 2022/12/07
**Sample ID:** HI VOL QUARTZ 22101763 BELL TOWERS TSP DEC7 **Shipped:**
**Matrix:** Filter **Received:** 2022/12/23

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8439379 | 2023/01/09 | 2023/01/10 | Thuy Linh Nguyen |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8439075 | 2023/01/09 | 2023/01/09 | Jolly John |
| Particulates on Filter (Method IO-3.1) | BAL | 8433922 | 2023/01/05 | 2023/01/04 | Nancy Dhir |

**Bureau Veritas ID:** URD777 Dup **Collected:** 2022/12/07
**Sample ID:** HI VOL QUARTZ 22101763 BELL TOWERS TSP DEC7 **Shipped:**
**Matrix:** Filter **Received:** 2022/12/23

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8439075 | 2023/01/09 | 2023/01/09 | Jolly John |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2AR395
Report Date: 2023/01/11

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** URD778
**Sample ID:** HI VOL QUARTZ 22101759 BELL TOWERS TSP DEC12
**Matrix:** Filter

**Collected:** 2022/12/12
**Shipped:**
**Received:** 2022/12/23

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8439379 | 2023/01/09 | 2023/01/10 | Thuy Linh Nguyen |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8439075 | 2023/01/09 | 2023/01/09 | Jolly John |
| Particulates on Filter (Method IO-3.1) | BAL | 8433922 | 2023/01/05 | 2023/01/04 | Nancy Dhir |

**Bureau Veritas ID:** URD779
**Sample ID:** HI VOL QUARTZ 22101760 BELL TOWERS TSP DEC19
**Matrix:** Filter

**Collected:** 2022/12/19
**Shipped:**
**Received:** 2022/12/23

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8439379 | 2023/01/09 | 2023/01/10 | Thuy Linh Nguyen |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8439075 | 2023/01/09 | 2023/01/09 | Jolly John |
| Particulates on Filter (Method IO-3.1) | BAL | 8433922 | 2023/01/05 | 2023/01/04 | Nancy Dhir |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT



| | | | Matrix Spike | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8439075 | Arsenic (As) | 2023/01/09 | 104 (1) | 75 - 125 | 101 | 85 - 115 | <6.0 | ug | NC (3) | 20 |
| 8439075 | Cadmium (Cd) | 2023/01/09 | 106 (1) | 75 - 125 | 102 | 85 - 115 | <2.0 | ug | NC (3) | 20 |
| 8439075 | Chromium (Cr) | 2023/01/09 | 100 (1) | 75 - 125 | 100 | 85 - 115 | <5.0 | ug | NC (3) | 20 |
| 8439075 | Cobalt (Co) | 2023/01/09 | 100 (1) | 75 - 125 | 100 | 85 - 115 | <2.0 | ug | NC (3) | 20 |
| 8439075 | Copper (Cu) | 2023/01/09 | 104 (1) | 75 - 125 | 103 | 85 - 115 | <5.0 | ug | 0.59 (3) | 20 |
| 8439075 | Iron (Fe) | 2023/01/09 | 102 (1) | 75 - 125 | 103 | 85 - 115 | <50 | ug | 2.5 (3) | 20 |
| 8439075 | Lead (Pb) | 2023/01/09 | 101 (1) | 75 - 125 | 97 | 85 - 115 | <3.0 | ug | NC (3) | 20 |
| 8439075 | Lithium (Li) | 2023/01/09 | | | | | <27 | ug | NC (3) | 20 |
| 8439075 | Manganese (Mn) | 2023/01/09 | 104 (1) | 75 - 125 | 103 | 85 - 115 | <1.0 | ug | 20 (3) | 20 |
| 8439075 | Nickel (Ni) | 2023/01/09 | 101 (1) | 75 - 125 | 101 | 85 - 115 | <3.0 | ug | NC (3) | 20 |
| 8439075 | Selenium (Se) | 2023/01/09 | 103 (1) | 75 - 125 | 99 | 85 - 115 | <10 | ug | NC (3) | 20 |
| 8439075 | Sulphur (S) | 2023/01/09 | 103 (1) | 75 - 125 | 96 | 85 - 115 | <25 | ug | 0.82 (3) | 20 |
| 8439075 | Vanadium (V) | 2023/01/09 | 100 (1) | 75 - 125 | 100 | 85 - 115 | <5.0 | ug | NC (3) | 20 |
| 8439075 | Zinc (Zn) | 2023/01/09 | 104 (1) | 75 - 125 | 100 | 85 - 115 | <5.0 | ug | 1.7 (3) | 20 |
| 8439379 | Total Mercury (Hg) | 2023/01/10 | 96 (4) | 80 - 120 | 102 | 90 - 110 | <0.002 | ug | NC (5) | 20 |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Matrix Spike Parent ID [URD777-01]

(2) Duplicate Parent ID

(3) Duplicate Parent ID [URD777-01]

(4) Matrix Spike Parent ID [URD776-01]

(5) Duplicate Parent ID [URD776-01]



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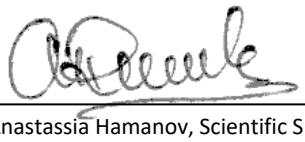
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2AR395
Report Date: 2023/01/11

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

23-Dec-22 09:48
Cristina (Maria) Bacchus
C2AR395

AN4 AIR-RmTmp

CAM FCD-01302 /3

5N 2L8 Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR

Page ____ of ____

**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 19 Young Street
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM + CR

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening (Inner Diameter | Dust Fall Opening (Outer Diameter | Silica | PM 10 | Dustfall | TSP | Mercury | Metals | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hi Vol Quartz 22081288 Bell Towers TSP Nov 19 | | | 19-Nov | | | | | | | X | X | X | | | | | |
| Hi Vol Quartz 22081285 Bell Towers TSP Nov 25 | | | 25-Nov | | | | | | | X | X | X | | | | | |
| Hi Vol Quartz 22101758 Bell Towers TSP Dec 1 | | | 1-Dec | | | | | | | X | X | X | | | | | |
| Hi Vol Quartz 22101763 Bell Towers TSP Dec 7 | | | 7-Dec | | | | | | | X | X | X | | | | | |
| Hi Vol Quartz 22101759 Bell Towers TSP Dec 12 | | | 12-Dec | | | | | | | X | X | X | | | | | |
| Hi Vol Quartz 22101760 Bell Towers TSP Dec 19 | | | 19-Dec | | | | | | | X | X | X | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

*Please note if these samples are "Industrial Hygiene" samples*
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

*Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com*

Client Signature:
Affiliation:
Date/Time:

Received by:
Affiliation:
Date/Time: 09:48

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at*

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/01/11**
Report #: R7461158
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C2AR395**
**Received: 2022/12/23, 09:48**

Sample Matrix: Filter
# Samples Received: 6

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | 6 | 2023/01/09 | 2023/01/10 | BRL SOP-00104 | EPA 7471B m |
| Total Metals on Hi-Vol Filter (6010Cmod) | 6 | 2023/01/09 | 2023/01/09 | CAM SOP-00408 | EPA 6010D m |
| Particulates on Filter (Method IO-3.1) | 6 | 2023/01/05 | 2023/01/04 | CAM SOP-00942 | Method IO-3.1 |

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

Encryption Key

Marinela Sim
Project Manager
11 Jan 2023 18:18:48

Please direct all questions regarding this Certificate of Analysis to:
Marinela Sim, Project Manager
Email: Marinela.Sim@bureauveritas.com
Phone# (905)817-5828

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C2AR395
Report Date: 2023/01/11

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | URD774 | URD775 | URD776 | URD777 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2022/11/19 | 2022/11/25 | 2022/12/01 | 2022/12/07 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | HI VOL QUARTZ 22081288 BELL TOWERS TSP NOV19 | HI VOL QUARTZ 22081285 BELL TOWERS TSP NOV25 | HI VOL QUARTZ 22101758 BELL TOWERS TSP DEC1 | HI VOL QUARTZ 22101763 BELL TOWERS TSP DEC7 | RDL | QC Batch |
| Particulate Weight on Filter | mg | <5.0 | <5.0 | <5.0 | <5.0 (1) | 5.0 | 8433922 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Negative weight observed

| Bureau Veritas ID | | URD778 | URD779 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2022/12/12 | 2022/12/19 | | |
| COC Number | | n/a | n/a | | |
| | UNITS | HI VOL QUARTZ 22101759 BELL TOWERS TSP DEC12 | HI VOL QUARTZ 22101760 BELL TOWERS TSP DEC19 | RDL | QC Batch |
| Particulate Weight on Filter | mg | <5.0 (1) | <5.0 | 5.0 | 8433922 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Negative weight observed as edges of filter found to be frayed



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2AR395
Report Date: 2023/01/11

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## MERCURY BY COLD VAPOUR AA (FILTER)

| Bureau Veritas ID | | URD774 | URD775 | URD776 | URD777 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2022/11/19 | 2022/11/25 | 2022/12/01 | 2022/12/07 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | HI VOL QUARTZ 22081288 BELL TOWERS TSP NOV19 | HI VOL QUARTZ 22081285 BELL TOWERS TSP NOV25 | HI VOL QUARTZ 22101758 BELL TOWERS TSP DEC1 | HI VOL QUARTZ 22101763 BELL TOWERS TSP DEC7 | RDL | QC Batch |
| **Metals** | | | | | | | |
| Total Mercury (Hg) | ug | <0.02 | <0.02 | <0.02 | <0.02 | 0.02 | 8439379 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

| Bureau Veritas ID | | URD778 | URD779 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2022/12/12 | 2022/12/19 | | |
| COC Number | | n/a | n/a | | |
| | UNITS | HI VOL QUARTZ 22101759 BELL TOWERS TSP DEC12 | HI VOL QUARTZ 22101760 BELL TOWERS TSP DEC19 | RDL | QC Batch |
| **Metals** | | | | | |
| Total Mercury (Hg) | ug | <0.02 | <0.02 | 0.02 | 8439379 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Bureau Veritas Job #: C2AR395
Report Date: 2023/01/11

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | URD774 | URD775 | URD776 | URD777 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2022/11/19 | 2022/11/25 | 2022/12/01 | 2022/12/07 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | HI VOL QUARTZ 22081288 BELL TOWERS TSP NOV19 | HI VOL QUARTZ 22081285 BELL TOWERS TSP NOV25 | HI VOL QUARTZ 22101758 BELL TOWERS TSP DEC1 | HI VOL QUARTZ 22101763 BELL TOWERS TSP DEC7 | RDL | QC Batch |
| **Metals** | | | | | | | |
| Arsenic (As) | ug | <6.0 | <6.0 | <6.0 | <6.0 | 6.0 | 8439075 |
| Cadmium (Cd) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 8439075 |
| Chromium (Cr) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 8439075 |
| Cobalt (Co) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 8439075 |
| Copper (Cu) | ug | 84.5 | 105 | 298 | 92.1 | 5.0 | 8439075 |
| Iron (Fe) | ug | 82 | 66 | 289 | 56 | 50 | 8439075 |
| Lead (Pb) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 8439075 |
| Lithium (Li) | ug | <27 | <27 | <27 | <27 | 27 | 8439075 |
| Manganese (Mn) | ug | 2.9 | 2.5 | 9.5 | 1.0 | 1.0 | 8439075 |
| Nickel (Ni) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 8439075 |
| Selenium (Se) | ug | <10 | <10 | <10 | <10 | 10 | 8439075 |
| Sulphur (S) | ug | 355 | 367 | 290 | 248 | 25 | 8439075 |
| Vanadium (V) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 8439075 |
| Zinc (Zn) | ug | 11.7 | 12.3 | 17.1 | 8.0 | 5.0 | 8439075 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | URD778 | URD779 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2022/12/12 | 2022/12/19 | | |
| COC Number | | n/a | n/a | | |
| | UNITS | HI VOL QUARTZ 22101759 BELL TOWERS TSP DEC12 | HI VOL QUARTZ 22101760 BELL TOWERS TSP DEC19 | RDL | QC Batch |
| **Metals** | | | | | |
| Arsenic (As) | ug | <6.0 | <6.0 | 6.0 | 8439075 |
| Cadmium (Cd) | ug | <2.0 | <2.0 | 2.0 | 8439075 |
| Chromium (Cr) | ug | <5.0 | <5.0 | 5.0 | 8439075 |
| Cobalt (Co) | ug | <2.0 | <2.0 | 2.0 | 8439075 |
| Copper (Cu) | ug | 52.3 | 258 | 5.0 | 8439075 |
| Iron (Fe) | ug | <50 | <50 | 50 | 8439075 |
| Lead (Pb) | ug | <3.0 | <3.0 | 3.0 | 8439075 |
| Lithium (Li) | ug | <27 | <27 | 27 | 8439075 |
| Manganese (Mn) | ug | <1.0 | <1.0 | 1.0 | 8439075 |
| Nickel (Ni) | ug | <3.0 | <3.0 | 3.0 | 8439075 |
| Selenium (Se) | ug | <10 | <10 | 10 | 8439075 |
| Sulphur (S) | ug | 254 | 225 | 25 | 8439075 |
| Vanadium (V) | ug | <5.0 | <5.0 | 5.0 | 8439075 |
| Zinc (Zn) | ug | 6.4 | 7.8 | 5.0 | 8439075 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



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Bureau Veritas Job #: C2AR395
Report Date: 2023/01/11

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 8439075 | JOH | Matrix Spike [URD777-01] | Arsenic (As) | 2023/01/09 | | 104 | % | 75 - 125 |
| | | | Cadmium (Cd) | 2023/01/09 | | 106 | % | 75 - 125 |
| | | | Chromium (Cr) | 2023/01/09 | | 100 | % | 75 - 125 |
| | | | Cobalt (Co) | 2023/01/09 | | 100 | % | 75 - 125 |
| | | | Copper (Cu) | 2023/01/09 | | 104 | % | 75 - 125 |
| | | | Iron (Fe) | 2023/01/09 | | 102 | % | 75 - 125 |
| | | | Lead (Pb) | 2023/01/09 | | 101 | % | 75 - 125 |
| | | | Manganese (Mn) | 2023/01/09 | | 104 | % | 75 - 125 |
| | | | Nickel (Ni) | 2023/01/09 | | 101 | % | 75 - 125 |
| | | | Selenium (Se) | 2023/01/09 | | 103 | % | 75 - 125 |
| | | | Sulphur (S) | 2023/01/09 | | 103 | % | 75 - 125 |
| | | | Vanadium (V) | 2023/01/09 | | 100 | % | 75 - 125 |
| | | | Zinc (Zn) | 2023/01/09 | | 104 | % | 75 - 125 |
| 8439075 | JOH | RPD [URD777-01] | Arsenic (As) | 2023/01/09 | 1.8 | | % | 20 |
| | | | Cadmium (Cd) | 2023/01/09 | 0.76 | | % | 20 |
| | | | Chromium (Cr) | 2023/01/09 | 0.10 | | % | 20 |
| | | | Cobalt (Co) | 2023/01/09 | 0.70 | | % | 20 |
| | | | Copper (Cu) | 2023/01/09 | 0.68 | | % | 20 |
| | | | Iron (Fe) | 2023/01/09 | 0.20 | | % | 20 |
| | | | Lead (Pb) | 2023/01/09 | 0.60 | | % | 20 |
| | | | Manganese (Mn) | 2023/01/09 | 0.29 | | % | 20 |
| | | | Nickel (Ni) | 2023/01/09 | 0.50 | | % | 20 |
| | | | Selenium (Se) | 2023/01/09 | 0.29 | | % | 20 |
| | | | Sulphur (S) | 2023/01/09 | 0.39 | | % | 20 |
| | | | Vanadium (V) | 2023/01/09 | 1.1 | | % | 20 |
| | | | Zinc (Zn) | 2023/01/09 | 0.58 | | % | 20 |
| | | | Arsenic (As) | 2023/01/09 | NC | | % | 20 |
| | | | Cadmium (Cd) | 2023/01/09 | NC | | % | 20 |
| | | | Chromium (Cr) | 2023/01/09 | NC | | % | 20 |
| | | | Cobalt (Co) | 2023/01/09 | NC | | % | 20 |
| | | | Copper (Cu) | 2023/01/09 | 0.59 | | % | 20 |
| | | | Iron (Fe) | 2023/01/09 | 2.5 | | % | 20 |
| | | | Lead (Pb) | 2023/01/09 | NC | | % | 20 |
| | | | Lithium (Li) | 2023/01/09 | NC | | % | 20 |
| | | | Manganese (Mn) | 2023/01/09 | 20 | | % | 20 |
| | | | Nickel (Ni) | 2023/01/09 | NC | | % | 20 |
| | | | Selenium (Se) | 2023/01/09 | NC | | % | 20 |
| | | | Sulphur (S) | 2023/01/09 | 0.82 | | % | 20 |
| | | | Vanadium (V) | 2023/01/09 | NC | | % | 20 |
| | | | Zinc (Zn) | 2023/01/09 | 1.7 | | % | 20 |
| 8439075 | JOH | Spiked Blank | Arsenic (As) | 2023/01/09 | | 101 | % | 85 - 115 |
| | | | Cadmium (Cd) | 2023/01/09 | | 102 | % | 85 - 115 |
| | | | Chromium (Cr) | 2023/01/09 | | 100 | % | 85 - 115 |
| | | | Cobalt (Co) | 2023/01/09 | | 100 | % | 85 - 115 |
| | | | Copper (Cu) | 2023/01/09 | | 103 | % | 85 - 115 |
| | | | Iron (Fe) | 2023/01/09 | | 103 | % | 85 - 115 |
| | | | Lead (Pb) | 2023/01/09 | | 97 | % | 85 - 115 |
| | | | Manganese (Mn) | 2023/01/09 | | 103 | % | 85 - 115 |
| | | | Nickel (Ni) | 2023/01/09 | | 101 | % | 85 - 115 |
| | | | Selenium (Se) | 2023/01/09 | | 99 | % | 85 - 115 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Sulphur (S) | 2023/01/09 | | 96 | % | 85 - 115 |
| | | | Vanadium (V) | 2023/01/09 | | 100 | % | 85 - 115 |
| | | | Zinc (Zn) | 2023/01/09 | | 100 | % | 85 - 115 |
| 8439075 | JOH | RPD | Arsenic (As) | 2023/01/09 | 0 | | % | 20 |
| | | | Cadmium (Cd) | 2023/01/09 | 0.39 | | % | 20 |
| | | | Chromium (Cr) | 2023/01/09 | 0.90 | | % | 20 |
| | | | Cobalt (Co) | 2023/01/09 | 0.40 | | % | 20 |
| | | | Copper (Cu) | 2023/01/09 | 0.19 | | % | 20 |
| | | | Iron (Fe) | 2023/01/09 | 0.20 | | % | 20 |
| | | | Lead (Pb) | 2023/01/09 | 0.41 | | % | 20 |
| | | | Manganese (Mn) | 2023/01/09 | 0.29 | | % | 20 |
| | | | Nickel (Ni) | 2023/01/09 | 0.20 | | % | 20 |
| | | | Selenium (Se) | 2023/01/09 | 2.0 | | % | 20 |
| | | | Sulphur (S) | 2023/01/09 | 1.0 | | % | 20 |
| | | | Vanadium (V) | 2023/01/09 | 0.10 | | % | 20 |
| | | | Zinc (Zn) | 2023/01/09 | 0.20 | | % | 20 |
| 8439075 | JOH | Method Blank | Arsenic (As) | 2023/01/09 | <6.0 | | ug | |
| | | | Cadmium (Cd) | 2023/01/09 | <2.0 | | ug | |
| | | | Chromium (Cr) | 2023/01/09 | <5.0 | | ug | |
| | | | Cobalt (Co) | 2023/01/09 | <2.0 | | ug | |
| | | | Copper (Cu) | 2023/01/09 | <5.0 | | ug | |
| | | | Iron (Fe) | 2023/01/09 | <50 | | ug | |
| | | | Lead (Pb) | 2023/01/09 | <3.0 | | ug | |
| | | | Lithium (Li) | 2023/01/09 | <27 | | ug | |
| | | | Manganese (Mn) | 2023/01/09 | <1.0 | | ug | |
| | | | Nickel (Ni) | 2023/01/09 | <3.0 | | ug | |
| | | | Selenium (Se) | 2023/01/09 | <10 | | ug | |
| | | | Sulphur (S) | 2023/01/09 | <25 | | ug | |
| | | | Vanadium (V) | 2023/01/09 | <5.0 | | ug | |
| | | | Zinc (Zn) | 2023/01/09 | <5.0 | | ug | |
| 8439379 | TLG | Matrix Spike [URD776-01] | Total Mercury (Hg) | 2023/01/10 | | 96 | % | 80 - 120 |
| 8439379 | TLG | RPD [URD776-01] | Total Mercury (Hg) | 2023/01/10 | 1.4 | | % | 20 |
| | | | Total Mercury (Hg) | 2023/01/10 | NC | | % | 20 |
| 8439379 | TLG | Spiked Blank | Total Mercury (Hg) | 2023/01/10 | | 102 | % | 90 - 110 |
| 8439379 | TLG | RPD | Total Mercury (Hg) | 2023/01/10 | 0 | | % | 20 |
| 8439379 | TLG | Method Blank | Total Mercury (Hg) | 2023/01/10 | <0.002 | | ug | |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



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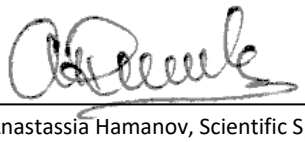
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2AR395
Report Date: 2023/01/11

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2022/11/01**
Report #: R7367202
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C2T3227**
**Received: 2022/10/07, 09:32**

Sample Matrix: Filter
# Samples Received: 2

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | 2 | 2022/10/26 | 2022/10/28 | BRL SOP-00104 | EPA 7471B m |
| Total Metals on Hi-Vol Filter (6010Cmod) | 2 | 2022/10/27 | 2022/10/28 | CAM SOP-00408 | EPA 6010D m |
| Particulates on Filter (Method IO-3.1) | 2 | 2022/10/24 | 2022/10/24 | CAM SOP-00942 | Method IO-3.1 |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2022/11/01**
Report #: R7367202
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C2T3227**
**Received: 2022/10/07, 09:32**

Encryption Key

Marinela Sim
Project Manager
01 Nov 2022 16:54:11

Please direct all questions regarding this Certificate of Analysis to:
Marinela Sim, Project Manager
Email: Marinela.Sim@bureauveritas.com
Phone# (905)817-5828

==========

This report has been generated and distributed using a secure automated process.
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Bureau Veritas Job #: C2T3227
Report Date: 2022/11/01

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | TYQ803 | TYQ804 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2022/09/20 13:35 | 2022/09/26 11:35 | | |
| COC Number | | n/a | n/a | | |
| | UNITS | BELL TOWER TSP 20-SEPTEMBER | BELL TOWER TSP 26-SEPTEMBER | RDL | QC Batch |
| Particulate Weight on Filter | mg | 18.0 | <5.0 | 5.0 | 8302542 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2T3227
Report Date: 2022/11/01

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## MERCURY BY COLD VAPOUR AA (FILTER)

| Bureau Veritas ID | | TYQ803 | TYQ804 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2022/09/20 13:35 | 2022/09/26 11:35 | | |
| COC Number | | n/a | n/a | | |
| | UNITS | BELL TOWER TSP 20-SEPTEMBER | BELL TOWER TSP 26-SEPTEMBER | RDL | QC Batch |
| **Metals** | | | | | |
| Total Mercury (Hg) | ug | <0.02 | <0.02 | 0.02 | 8306822 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2T3227
Report Date: 2022/11/01

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | TYQ803 | TYQ804 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2022/09/20 13:35 | 2022/09/26 11:35 | | |
| COC Number | | n/a | n/a | | |
| | UNITS | BELL TOWER TSP 20-SEPTEMBER | BELL TOWER TSP 26-SEPTEMBER | RDL | QC Batch |
| **Metals** | | | | | |
| Arsenic (As) | ug | <6.0 | <6.0 | 6.0 | 8309256 |
| Cadmium (Cd) | ug | <2.0 | <2.0 | 2.0 | 8309256 |
| Chromium (Cr) | ug | <5.0 | <5.0 | 5.0 | 8309256 |
| Cobalt (Co) | ug | <2.0 | <2.0 | 2.0 | 8309256 |
| Copper (Cu) | ug | 51.6 | 103 | 5.0 | 8309256 |
| Iron (Fe) | ug | 94 | 74 | 50 | 8309256 |
| Lead (Pb) | ug | <3.0 | <3.0 | 3.0 | 8309256 |
| Lithium (Li) | ug | <27 | <27 | 27 | 8309256 |
| Manganese (Mn) | ug | 6.9 | 2.6 | 1.0 | 8309256 |
| Nickel (Ni) | ug | <3.0 | <3.0 | 3.0 | 8309256 |
| Selenium (Se) | ug | <10 | <10 | 10 | 8309256 |
| Sulphur (S) | ug | 546 | 256 | 25 | 8309256 |
| Vanadium (V) | ug | <5.0 | <5.0 | 5.0 | 8309256 |
| Zinc (Zn) | ug | 30.8 | 45.9 | 5.0 | 8309256 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2T3227
Report Date: 2022/11/01

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** TYQ803
**Sample ID:** BELL TOWER TSP 20-SEPTEMBER
**Matrix:** Filter

**Collected:** 2022/09/20
**Shipped:**
**Received:** 2022/10/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8306822 | 2022/10/26 | 2022/10/28 | Thuy Linh Nguyen |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8309256 | 2022/10/27 | 2022/10/28 | Gagandeep Rai |
| Particulates on Filter (Method IO-3.1) | BAL | 8302542 | 2022/10/24 | 2022/10/24 | Andrea Contreras Arenas |

**Bureau Veritas ID:** TYQ804
**Sample ID:** BELL TOWER TSP 26-SEPTEMBER
**Matrix:** Filter

**Collected:** 2022/09/26
**Shipped:**
**Received:** 2022/10/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8306822 | 2022/10/26 | 2022/10/28 | Thuy Linh Nguyen |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8309256 | 2022/10/27 | 2022/10/28 | Gagandeep Rai |
| Particulates on Filter (Method IO-3.1) | BAL | 8302542 | 2022/10/24 | 2022/10/24 | Andrea Contreras Arenas |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

# QUALITY ASSURANCE REPORT



| | | | Matrix Spike | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8306822 | Total Mercury (Hg) | 2022/10/28 | 100 | 80 - 120 | 100 | 90 - 110 | <0.002 | ug | NC (1) | 20 |
| 8309256 | Arsenic (As) | 2022/10/28 | 106 | 75 - 125 | 103 | 85 - 115 | <6.0 | ug | NC (1) | 20 |
| 8309256 | Cadmium (Cd) | 2022/10/28 | 103 | 75 - 125 | 102 | 85 - 115 | <2.0 | ug | NC (1) | 20 |
| 8309256 | Chromium (Cr) | 2022/10/28 | 103 | 75 - 125 | 100 | 85 - 115 | <5.0 | ug | NC (1) | 20 |
| 8309256 | Cobalt (Co) | 2022/10/28 | 99 | 75 - 125 | 99 | 85 - 115 | <2.0 | ug | NC (1) | 20 |
| 8309256 | Copper (Cu) | 2022/10/28 | 104 | 75 - 125 | 99 | 85 - 115 | <5.0 | ug | 4.1 (1) | 20 |
| 8309256 | Iron (Fe) | 2022/10/28 | 107 | 75 - 125 | 100 | 85 - 115 | <50 | ug | 1.5 (1) | 20 |
| 8309256 | Lead (Pb) | 2022/10/28 | 101 | 75 - 125 | 100 | 85 - 115 | <3.0 | ug | 10 (1) | 20 |
| 8309256 | Lithium (Li) | 2022/10/28 | | | | | <27 | ug | | |
| 8309256 | Manganese (Mn) | 2022/10/28 | 106 | 75 - 125 | 101 | 85 - 115 | <1.0 | ug | 1.6 (1) | 20 |
| 8309256 | Nickel (Ni) | 2022/10/28 | 103 | 75 - 125 | 101 | 85 - 115 | <3.0 | ug | NC (1) | 20 |
| 8309256 | Selenium (Se) | 2022/10/28 | 110 | 75 - 125 | 105 | 85 - 115 | <10 | ug | NC (1) | 20 |
| 8309256 | Sulphur (S) | 2022/10/28 | NC | 75 - 125 | 105 | 85 - 115 | <25 | ug | 0.29 (1) | 20 |
| 8309256 | Vanadium (V) | 2022/10/28 | 100 | 75 - 125 | 98 | 85 - 115 | <5.0 | ug | NC (1) | 20 |
| 8309256 | Zinc (Zn) | 2022/10/28 | 103 | 75 - 125 | 102 | 85 - 115 | <5.0 | ug | 0.56 (1) | 20 |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Duplicate Parent ID



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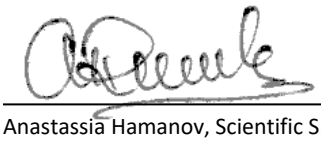
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2T3227
Report Date: 2022/11/01

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

JOB #

CLIENT NAME: Kinross Gold



## Internal Sample Receipt Form

| | Sample Identification | Date Sampled | Time Sampled | Matrix | # of Bottles | Comments |
|---|---|---|---|---|---|---|
| 1 | Bell Tower TSP 20 - September | 09/20 | – | HVOL | 1 | Hi-Vol Quartz 22081284 |
| 2 | Bell Tower TSP 26 - Sept⇒ | 09/26 | – | HVOL | 1 | Hi Vol Quartz 22081289 |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |

07-Oct-22 09:32
Cristina (Maria) Bacchus
C2T3227
KTN AIR-RmTmp

| Received by (Signature & Print): | Date | Time | Cooler ID | Temperature | Custody seal Present | | Custody Seal Intact | | Ice Present | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | YES | NO | YES | NO | YES | NO |
| Z M TRINH | 2022/10/07 | 09:32 | | | | ✓ | | ✓ | | ✓ |
| | | | | | | | | | | |

CAM FCD-01302 /3

6740 Campobello Rd
Mississauga Ontario ,L5N 2L8
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening Inner Diameter | Dust Fall Opening Outer Diameter | Silica | PM 10 | Dustfall | TSP | Mercury | Metals | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| September Dustfall - Teardrop | | | Sep 1 - Sep 30 | 30-Sep | | | | | X | | | | | | | | |
| M_22080201 Teardrop PM 10 Sept 2 | 24.05 (m³) | 16.7 (l/m) | 02-Sep | 13:30 | | | X | X | | | | | | | | | |
| M_22080203 Teardrop PM 10 Sept 8 | 24.05 (m³) | 16.7 (l/m) | 08-Sep | 9:00 | | | X | X | | | | | | | | | |
| M_22080204 Teardrop PM 10 Sept 14 | 24.05 (m³) | 16.7 (l/m) | 14-Sep | 14:00 | | | X | X | | | | | | | | | |
| M_22080205 Teardrop PM 10 Sept 20 | 24.05 (m³) | 16.7 (l/m) | 20-Sep | 10:30 | | | X | X | | | | | | | | | |
| M_22080202 Teardrop PM 10 Sept 26 | 24.05 (m³) | 16.7 (l/m) | 26-Sep | 11:00 | | | X | X | | | | | | | | | |
| Hi Vol Quartz 22081284 Bell Tower TSP Sep 20 | | | 20-Sep | 13:55 | | | | | | X | X | X | | | | | |
| Hi Vol Quartz 22081289 Bell Tower TSP Sep 26 | | | 26-Sep | 11:35 | | | | | | X | X | X | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com***

Client Signature:
Affiliation:
Date/Time:

Received by:
Affiliation:
Date/Time:

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Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2022/11/01**
Report #: R7367202
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C2T3227**
**Received: 2022/10/07, 09:32**

Sample Matrix: Filter
# Samples Received: 2

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | 2 | 2022/10/26 | 2022/10/28 | BRL SOP-00104 | EPA 7471B m |
| Total Metals on Hi-Vol Filter (6010Cmod) | 2 | 2022/10/27 | 2022/10/28 | CAM SOP-00408 | EPA 6010D m |
| Particulates on Filter (Method IO-3.1) | 2 | 2022/10/24 | 2022/10/24 | CAM SOP-00942 | Method IO-3.1 |

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

Encryption Key

Marinela Sim
Project Manager
01 Nov 2022 16:54:13

Please direct all questions regarding this Certificate of Analysis to:
Marinela Sim, Project Manager
Email: Marinela.Sim@bureauveritas.com
Phone# (905)817-5828

==========

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Bureau Veritas Job #: C2T3227
Report Date: 2022/11/01

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | TYQ803 | TYQ804 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2022/09/20 13:35 | 2022/09/26 11:35 | | |
| COC Number | | n/a | n/a | | |
| | UNITS | BELL TOWER TSP 20-SEPTEMBER | BELL TOWER TSP 26-SEPTEMBER | RDL | QC Batch |
| Particulate Weight on Filter | mg | 18.0 | <5.0 | 5.0 | 8302542 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2T3227
Report Date: 2022/11/01

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## MERCURY BY COLD VAPOUR AA (FILTER)

| Bureau Veritas ID | | TYQ803 | TYQ804 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2022/09/20 13:35 | 2022/09/26 11:35 | | |
| COC Number | | n/a | n/a | | |
| | UNITS | BELL TOWER TSP 20-SEPTEMBER | BELL TOWER TSP 26-SEPTEMBER | RDL | QC Batch |
| **Metals** | | | | | |
| Total Mercury (Hg) | ug | <0.02 | <0.02 | 0.02 | 8306822 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2T3227
Report Date: 2022/11/01

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | TYQ803 | TYQ804 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2022/09/20 13:35 | 2022/09/26 11:35 | | |
| COC Number | | n/a | n/a | | |
| | UNITS | BELL TOWER TSP 20-SEPTEMBER | BELL TOWER TSP 26-SEPTEMBER | RDL | QC Batch |
| **Metals** | | | | | |
| Arsenic (As) | ug | <6.0 | <6.0 | 6.0 | 8309256 |
| Cadmium (Cd) | ug | <2.0 | <2.0 | 2.0 | 8309256 |
| Chromium (Cr) | ug | <5.0 | <5.0 | 5.0 | 8309256 |
| Cobalt (Co) | ug | <2.0 | <2.0 | 2.0 | 8309256 |
| Copper (Cu) | ug | 51.6 | 103 | 5.0 | 8309256 |
| Iron (Fe) | ug | 94 | 74 | 50 | 8309256 |
| Lead (Pb) | ug | <3.0 | <3.0 | 3.0 | 8309256 |
| Lithium (Li) | ug | <27 | <27 | 27 | 8309256 |
| Manganese (Mn) | ug | 6.9 | 2.6 | 1.0 | 8309256 |
| Nickel (Ni) | ug | <3.0 | <3.0 | 3.0 | 8309256 |
| Selenium (Se) | ug | <10 | <10 | 10 | 8309256 |
| Sulphur (S) | ug | 546 | 256 | 25 | 8309256 |
| Vanadium (V) | ug | <5.0 | <5.0 | 5.0 | 8309256 |
| Zinc (Zn) | ug | 30.8 | 45.9 | 5.0 | 8309256 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## GENERAL COMMENTS

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2T3227
Report Date: 2022/11/01

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 8306822 | TLG | Matrix Spike | Total Mercury (Hg) | 2022/10/28 | | 100 | % | 80 - 120 |
| 8306822 | TLG | RPD | Total Mercury (Hg) | 2022/10/28 | 4.6 | | % | 20 |
| | | | Total Mercury (Hg) | 2022/10/28 | 0.60 | | % | 20 |
| | | | Total Mercury (Hg) | 2022/10/28 | NC | | % | 20 |
| 8306822 | TLG | Spiked Blank | Total Mercury (Hg) | 2022/10/28 | | 100 | % | 90 - 110 |
| 8306822 | TLG | Method Blank | Total Mercury (Hg) | 2022/10/28 | <0.002 | | ug | |
| 8309256 | GR1 | Matrix Spike | Arsenic (As) | 2022/10/28 | | 106 | % | 75 - 125 |
| | | | Cadmium (Cd) | 2022/10/28 | | 103 | % | 75 - 125 |
| | | | Chromium (Cr) | 2022/10/28 | | 103 | % | 75 - 125 |
| | | | Cobalt (Co) | 2022/10/28 | | 99 | % | 75 - 125 |
| | | | Copper (Cu) | 2022/10/28 | | 104 | % | 75 - 125 |
| | | | Iron (Fe) | 2022/10/28 | | 107 | % | 75 - 125 |
| | | | Lead (Pb) | 2022/10/28 | | 101 | % | 75 - 125 |
| | | | Manganese (Mn) | 2022/10/28 | | 106 | % | 75 - 125 |
| | | | Nickel (Ni) | 2022/10/28 | | 103 | % | 75 - 125 |
| | | | Selenium (Se) | 2022/10/28 | | 110 | % | 75 - 125 |
| | | | Sulphur (S) | 2022/10/28 | | NC | % | 75 - 125 |
| | | | Vanadium (V) | 2022/10/28 | | 100 | % | 75 - 125 |
| | | | Zinc (Zn) | 2022/10/28 | | 103 | % | 75 - 125 |
| 8309256 | GR1 | RPD | Arsenic (As) | 2022/10/28 | 1.1 | | % | 20 |
| | | | Cadmium (Cd) | 2022/10/28 | 1.4 | | % | 20 |
| | | | Chromium (Cr) | 2022/10/28 | 1.4 | | % | 20 |
| | | | Cobalt (Co) | 2022/10/28 | 1.0 | | % | 20 |
| | | | Copper (Cu) | 2022/10/28 | 0.77 | | % | 20 |
| | | | Iron (Fe) | 2022/10/28 | 3.3 | | % | 20 |
| | | | Lead (Pb) | 2022/10/28 | 1.4 | | % | 20 |
| | | | Manganese (Mn) | 2022/10/28 | 2.0 | | % | 20 |
| | | | Nickel (Ni) | 2022/10/28 | 0.97 | | % | 20 |
| | | | Selenium (Se) | 2022/10/28 | 0.18 | | % | 20 |
| | | | Sulphur (S) | 2022/10/28 | 0 | | % | 20 |
| | | | Vanadium (V) | 2022/10/28 | 1.0 | | % | 20 |
| | | | Zinc (Zn) | 2022/10/28 | 1.5 | | % | 20 |
| | | | Arsenic (As) | 2022/10/28 | 1.5 | | % | 20 |
| | | | Cadmium (Cd) | 2022/10/28 | 1.5 | | % | 20 |
| | | | Chromium (Cr) | 2022/10/28 | 1.5 | | % | 20 |
| | | | Cobalt (Co) | 2022/10/28 | 0.81 | | % | 20 |
| | | | Copper (Cu) | 2022/10/28 | 0.50 | | % | 20 |
| | | | Iron (Fe) | 2022/10/28 | 0 | | % | 20 |
| | | | Lead (Pb) | 2022/10/28 | 1.3 | | % | 20 |
| | | | Manganese (Mn) | 2022/10/28 | 1.2 | | % | 20 |
| | | | Nickel (Ni) | 2022/10/28 | 0 | | % | 20 |
| | | | Selenium (Se) | 2022/10/28 | 2.2 | | % | 20 |
| | | | Sulphur (S) | 2022/10/28 | 0.29 | | % | 20 |
| | | | Vanadium (V) | 2022/10/28 | 0.30 | | % | 20 |
| | | | Zinc (Zn) | 2022/10/28 | 0.97 | | % | 20 |
| | | | Arsenic (As) | 2022/10/28 | NC | | % | 20 |
| | | | Cadmium (Cd) | 2022/10/28 | NC | | % | 20 |
| | | | Chromium (Cr) | 2022/10/28 | NC | | % | 20 |
| | | | Cobalt (Co) | 2022/10/28 | NC | | % | 20 |
| | | | Copper (Cu) | 2022/10/28 | 4.1 | | % | 20 |
| | | | Iron (Fe) | 2022/10/28 | 1.5 | | % | 20 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Lead (Pb) | 2022/10/28 | 10 | | % | 20 |
| | | | Manganese (Mn) | 2022/10/28 | 1.6 | | % | 20 |
| | | | Nickel (Ni) | 2022/10/28 | NC | | % | 20 |
| | | | Selenium (Se) | 2022/10/28 | NC | | % | 20 |
| | | | Vanadium (V) | 2022/10/28 | NC | | % | 20 |
| | | | Zinc (Zn) | 2022/10/28 | 0.56 | | % | 20 |
| 8309256 | GR1 | Spiked Blank | Arsenic (As) | 2022/10/28 | | 103 | % | 85 - 115 |
| | | | Cadmium (Cd) | 2022/10/28 | | 102 | % | 85 - 115 |
| | | | Chromium (Cr) | 2022/10/28 | | 100 | % | 85 - 115 |
| | | | Cobalt (Co) | 2022/10/28 | | 99 | % | 85 - 115 |
| | | | Copper (Cu) | 2022/10/28 | | 99 | % | 85 - 115 |
| | | | Iron (Fe) | 2022/10/28 | | 100 | % | 85 - 115 |
| | | | Lead (Pb) | 2022/10/28 | | 100 | % | 85 - 115 |
| | | | Manganese (Mn) | 2022/10/28 | | 101 | % | 85 - 115 |
| | | | Nickel (Ni) | 2022/10/28 | | 101 | % | 85 - 115 |
| | | | Selenium (Se) | 2022/10/28 | | 105 | % | 85 - 115 |
| | | | Sulphur (S) | 2022/10/28 | | 105 | % | 85 - 115 |
| | | | Vanadium (V) | 2022/10/28 | | 98 | % | 85 - 115 |
| | | | Zinc (Zn) | 2022/10/28 | | 102 | % | 85 - 115 |
| 8309256 | GR1 | Method Blank | Arsenic (As) | 2022/10/28 | <6.0 | | ug | |
| | | | Cadmium (Cd) | 2022/10/28 | <2.0 | | ug | |
| | | | Chromium (Cr) | 2022/10/28 | <5.0 | | ug | |
| | | | Cobalt (Co) | 2022/10/28 | <2.0 | | ug | |
| | | | Copper (Cu) | 2022/10/28 | <5.0 | | ug | |
| | | | Iron (Fe) | 2022/10/28 | <50 | | ug | |
| | | | Lead (Pb) | 2022/10/28 | <3.0 | | ug | |
| | | | Lithium (Li) | 2022/10/28 | <27 | | ug | |
| | | | Manganese (Mn) | 2022/10/28 | <1.0 | | ug | |
| | | | Nickel (Ni) | 2022/10/28 | <3.0 | | ug | |
| | | | Selenium (Se) | 2022/10/28 | <10 | | ug | |
| | | | Sulphur (S) | 2022/10/28 | <25 | | ug | |
| | | | Vanadium (V) | 2022/10/28 | <5.0 | | ug | |
| | | | Zinc (Zn) | 2022/10/28 | <5.0 | | ug | |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



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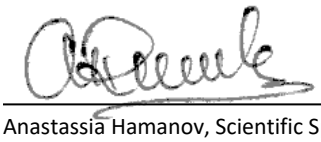
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2T3227
Report Date: 2022/11/01

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/02/24**
Report #: R7522409
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C338744**
**Received: 2023/02/09, 09:23**

Sample Matrix: Filter
# Samples Received: 5

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | 5 | 2023/02/21 | 2023/02/22 | BRL SOP-00104 | EPA 7471B m |
| Total Metals on Hi-Vol Filter (6010Cmod) | 5 | 2023/02/17 | 2023/02/23 | CAM SOP-00408 | EPA 6010D m |
| Particulates on Filter (Method IO-3.1) | 5 | 2023/02/15 | 2023/02/14 | CAM SOP-00942 | Method IO-3.1 |

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

Encryption Key

Marinela Sim
Project Manager
27 Feb 2023 12:21:02

Please direct all questions regarding this Certificate of Analysis to:
Marinela Sim, Project Manager
Email: Marinela.Sim@bureauveritas.com
Phone# (905)817-5828

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C338744
Report Date: 2023/02/24

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | VAD968 | VAD969 | VAD970 | VAD971 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2022/12/25 | 2023/01/06 | 2023/01/12 | 2023/01/18 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | HI VOL QUARTZ 220101762 BELL TOWERS TSP DEC 25 | HI VOL QUARTZ 220101761 BELL TOWERS TSP JAN 6 | HI VOL QUARTZ 22111431 BELL TOWERS TSP JAN 12 | HI VOL QUARTZ 22111430 BELL TOWERS TSP JAN 18 | RDL | QC Batch |
| Particulate Weight on Filter | mg | <5.0 (1) | <5.0 (2) | 19.6 (3) | <5.0 (4) | 5.0 | 8506255 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Loose filter material
Negative weight observed
(2) Edges of filter frayed
Loose filter material
Negative weight observed
(3) Filter torn
(4) Edges of filter frayed
Loose filter material

| Bureau Veritas ID | | VAD972 | | |
|---|---|---|---|---|
| Sampling Date | | 2023/01/24 | | |
| COC Number | | n/a | | |
| | UNITS | HI VOL QUARTZ 22120838 BELL TOWERS TSP JAN 24 | RDL | QC Batch |
| Particulate Weight on Filter | mg | <5.0 (1) | 5.0 | 8506255 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Negative weight observed



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C338744
Report Date: 2023/02/24

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## MERCURY BY COLD VAPOUR AA (FILTER)

| Bureau Veritas ID | | VAD968 | VAD969 | VAD970 | VAD971 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2022/12/25 | 2023/01/06 | 2023/01/12 | 2023/01/18 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | HI VOL QUARTZ 220101762 BELL TOWERS TSP DEC 25 | HI VOL QUARTZ 220101761 BELL TOWERS TSP JAN 6 | HI VOL QUARTZ 22111431 BELL TOWERS TSP JAN 12 | HI VOL QUARTZ 22111430 BELL TOWERS TSP JAN 18 | RDL | QC Batch |
| **Metals** | | | | | | | |
| Total Mercury (Hg) | ug | <0.02 | <0.02 | <0.02 | <0.02 | 0.02 | 8513626 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

| Bureau Veritas ID | | VAD972 | | |
|---|---|---|---|---|
| Sampling Date | | 2023/01/24 | | |
| COC Number | | n/a | | |
| | UNITS | HI VOL QUARTZ 22120838 BELL TOWERS TSP JAN 24 | RDL | QC Batch |
| **Metals** | | | | |
| Total Mercury (Hg) | ug | <0.02 | 0.02 | 8513626 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C338744
Report Date: 2023/02/24

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | VAD968 | VAD969 | VAD970 | VAD971 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2022/12/25 | 2023/01/06 | 2023/01/12 | 2023/01/18 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | HI VOL QUARTZ 220101762 BELL TOWERS TSP DEC 25 | HI VOL QUARTZ 220101761 BELL TOWERS TSP JAN 6 | HI VOL QUARTZ 22111431 BELL TOWERS TSP JAN 12 | HI VOL QUARTZ 22111430 BELL TOWERS TSP JAN 18 | RDL | QC Batch |
| **Metals** | | | | | | | |
| Arsenic (As) | ug | <6.0 | <6.0 | <6.0 | <6.0 | 6.0 | 8509914 |
| Cadmium (Cd) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 8509914 |
| Chromium (Cr) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 8509914 |
| Cobalt (Co) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 8509914 |
| Copper (Cu) | ug | <5.0 | <5.0 | 66.7 | 164 | 5.0 | 8509914 |
| Iron (Fe) | ug | <50 | <50 | <50 | <50 | 50 | 8509914 |
| Lead (Pb) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 8509914 |
| Lithium (Li) | ug | <27 | <27 | <27 | <27 | 27 | 8509914 |
| Manganese (Mn) | ug | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 8509914 |
| Nickel (Ni) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 8509914 |
| Selenium (Se) | ug | <10 | <10 | <10 | <10 | 10 | 8509914 |
| Sulphur (S) | ug | 117 | 99 | 176 | 129 | 25 | 8509914 |
| Vanadium (V) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 8509914 |
| Zinc (Zn) | ug | 10.6 | 6.0 | 9.1 | 6.0 | 5.0 | 8509914 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C338744
Report Date: 2023/02/24

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | VAD972 | | |
|---|---|---|---|---|
| Sampling Date | | 2023/01/24 | | |
| COC Number | | n/a | | |
| | UNITS | HI VOL QUARTZ 22120838 BELL TOWERS TSP JAN 24 | RDL | QC Batch |
| **Metals** | | | | |
| Arsenic (As) | ug | <6.0 | 6.0 | 8509914 |
| Cadmium (Cd) | ug | <2.0 | 2.0 | 8509914 |
| Chromium (Cr) | ug | <5.0 | 5.0 | 8509914 |
| Cobalt (Co) | ug | <2.0 | 2.0 | 8509914 |
| Copper (Cu) | ug | 51.6 | 5.0 | 8509914 |
| Iron (Fe) | ug | <50 | 50 | 8509914 |
| Lead (Pb) | ug | <3.0 | 3.0 | 8509914 |
| Lithium (Li) | ug | <27 | 27 | 8509914 |
| Manganese (Mn) | ug | <1.0 | 1.0 | 8509914 |
| Nickel (Ni) | ug | <3.0 | 3.0 | 8509914 |
| Selenium (Se) | ug | <10 | 10 | 8509914 |
| Sulphur (S) | ug | 147 | 25 | 8509914 |
| Vanadium (V) | ug | <5.0 | 5.0 | 8509914 |
| Zinc (Zn) | ug | <5.0 | 5.0 | 8509914 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 8509914 | MEN | Matrix Spike | Arsenic (As) | 2023/02/23 | | 99 | % | 75 - 125 |
| | | | Cadmium (Cd) | 2023/02/23 | | 100 | % | 75 - 125 |
| | | | Chromium (Cr) | 2023/02/23 | | 95 | % | 75 - 125 |
| | | | Cobalt (Co) | 2023/02/23 | | 96 | % | 75 - 125 |
| | | | Copper (Cu) | 2023/02/23 | | 98 | % | 75 - 125 |
| | | | Iron (Fe) | 2023/02/23 | | 98 | % | 75 - 125 |
| | | | Lead (Pb) | 2023/02/23 | | 98 | % | 75 - 125 |
| | | | Manganese (Mn) | 2023/02/23 | | 98 | % | 75 - 125 |
| | | | Nickel (Ni) | 2023/02/23 | | 96 | % | 75 - 125 |
| | | | Selenium (Se) | 2023/02/23 | | 100 | % | 75 - 125 |
| | | | Sulphur (S) | 2023/02/23 | | 78 | % | 75 - 125 |
| | | | Vanadium (V) | 2023/02/23 | | 95 | % | 75 - 125 |
| | | | Zinc (Zn) | 2023/02/23 | | 98 | % | 75 - 125 |
| 8509914 | MEN | RPD | Arsenic (As) | 2023/02/23 | 3.2 | | % | 20 |
| | | | Cadmium (Cd) | 2023/02/23 | 2.6 | | % | 20 |
| | | | Chromium (Cr) | 2023/02/23 | 4.5 | | % | 20 |
| | | | Cobalt (Co) | 2023/02/23 | 3.6 | | % | 20 |
| | | | Copper (Cu) | 2023/02/23 | 3.7 | | % | 20 |
| | | | Iron (Fe) | 2023/02/23 | 3.9 | | % | 20 |
| | | | Lead (Pb) | 2023/02/23 | 3.3 | | % | 20 |
| | | | Manganese (Mn) | 2023/02/23 | 3.0 | | % | 20 |
| | | | Nickel (Ni) | 2023/02/23 | 3.1 | | % | 20 |
| | | | Selenium (Se) | 2023/02/23 | 3.2 | | % | 20 |
| | | | Sulphur (S) | 2023/02/23 | 9.7 | | % | 20 |
| | | | Vanadium (V) | 2023/02/23 | 3.6 | | % | 20 |
| | | | Zinc (Zn) | 2023/02/23 | 3.5 | | % | 20 |
| | | | Arsenic (As) | 2023/02/23 | 3.0 | | % | 20 |
| | | | Cadmium (Cd) | 2023/02/23 | 2.0 | | % | 20 |
| | | | Chromium (Cr) | 2023/02/23 | 3.0 | | % | 20 |
| | | | Cobalt (Co) | 2023/02/23 | 1.9 | | % | 20 |
| | | | Copper (Cu) | 2023/02/23 | 2.0 | | % | 20 |
| | | | Iron (Fe) | 2023/02/23 | 2.2 | | % | 20 |
| | | | Lead (Pb) | 2023/02/23 | 2.1 | | % | 20 |
| | | | Manganese (Mn) | 2023/02/23 | 2.3 | | % | 20 |
| | | | Nickel (Ni) | 2023/02/23 | 2.1 | | % | 20 |
| | | | Selenium (Se) | 2023/02/23 | 2.9 | | % | 20 |
| | | | Sulphur (S) | 2023/02/23 | 1.2 | | % | 20 |
| | | | Vanadium (V) | 2023/02/23 | 0.96 | | % | 20 |
| | | | Zinc (Zn) | 2023/02/23 | 2.0 | | % | 20 |
| 8509914 | MEN | Spiked Blank | Arsenic (As) | 2023/02/23 | | 104 | % | 85 - 115 |
| | | | Cadmium (Cd) | 2023/02/23 | | 105 | % | 85 - 115 |
| | | | Chromium (Cr) | 2023/02/23 | | 102 | % | 85 - 115 |
| | | | Cobalt (Co) | 2023/02/23 | | 104 | % | 85 - 115 |
| | | | Copper (Cu) | 2023/02/23 | | 106 | % | 85 - 115 |
| | | | Iron (Fe) | 2023/02/23 | | 105 | % | 85 - 115 |
| | | | Lead (Pb) | 2023/02/23 | | 103 | % | 85 - 115 |
| | | | Manganese (Mn) | 2023/02/23 | | 106 | % | 85 - 115 |
| | | | Nickel (Ni) | 2023/02/23 | | 105 | % | 85 - 115 |
| | | | Selenium (Se) | 2023/02/23 | | 103 | % | 85 - 115 |
| | | | Sulphur (S) | 2023/02/23 | | 105 | % | 85 - 115 |
| | | | Vanadium (V) | 2023/02/23 | | 104 | % | 85 - 115 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Zinc (Zn) | 2023/02/23 | | 104 | % | 85 - 115 |
| 8509914 | MEN | Method Blank | Arsenic (As) | 2023/02/23 | <6.0 | | ug | |
| | | | Cadmium (Cd) | 2023/02/23 | <2.0 | | ug | |
| | | | Chromium (Cr) | 2023/02/23 | <5.0 | | ug | |
| | | | Cobalt (Co) | 2023/02/23 | <2.0 | | ug | |
| | | | Copper (Cu) | 2023/02/23 | <5.0 | | ug | |
| | | | Iron (Fe) | 2023/02/23 | <50 | | ug | |
| | | | Lead (Pb) | 2023/02/23 | <3.0 | | ug | |
| | | | Lithium (Li) | 2023/02/23 | <27 | | ug | |
| | | | Manganese (Mn) | 2023/02/23 | <1.0 | | ug | |
| | | | Nickel (Ni) | 2023/02/23 | <3.0 | | ug | |
| | | | Selenium (Se) | 2023/02/23 | <10 | | ug | |
| | | | Sulphur (S) | 2023/02/23 | <25 | | ug | |
| | | | Vanadium (V) | 2023/02/23 | <5.0 | | ug | |
| | | | Zinc (Zn) | 2023/02/23 | <5.0 | | ug | |
| 8513626 | TLG | Matrix Spike | Total Mercury (Hg) | 2023/02/22 | | 99 | % | 80 - 120 |
| 8513626 | TLG | RPD | Total Mercury (Hg) | 2023/02/22 | 3.5 | | % | 20 |
| | | | Total Mercury (Hg) | 2023/02/22 | 0.30 | | % | 20 |
| | | | Total Mercury (Hg) | 2023/02/22 | NC | | % | 20 |
| 8513626 | TLG | Spiked Blank | Total Mercury (Hg) | 2023/02/22 | | 102 | % | 90 - 110 |
| 8513626 | TLG | Method Blank | Total Mercury (Hg) | 2023/02/22 | <0.002 | | ug | |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C338744
Report Date: 2023/02/24

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere, Senior Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: na

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/11/24**
Report #: R7925974
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3Y9836**
**Received: 2023/11/08, 09:34**

Sample Matrix: Filter
# Samples Received: 6

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | 6 | 2023/11/22 | 2023/11/23 | BRL SOP-00104 | EPA 7471B m |
| Total Metals on Hi-Vol Filter (6010Cmod) | 6 | 2023/11/20 | 2023/11/23 | CAM SOP-00408 | EPA 6010D m |
| Particulates on Filter (Method IO-3.1) | 6 | 2023/11/10 | 2023/11/10 | CAM SOP-00942 | Method IO-3.1 |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCCFP, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: na

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/11/24**
Report #: R7925974
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3Y9836**
**Received: 2023/11/08, 09:34**

Encryption Key

Jade Browne
Project Manager Assistant - Air
24 Nov 2023 14:08:47

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C3Y9836
Report Date: 2023/11/24

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: CB

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | XNQ611 | XNQ612 | XNQ613 | XNQ614 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/09/27 | 2023/10/03 | 2023/10/09 | 2023/10/15 | | |
| COC Number | | na | na | na | na | | |
| | UNITS | BELL TOWERS TSP SEP27 23041351 | BELL TOWERS TSP OCT3 23041352 | BELL TOWERS TSP OCT9 23041353 | BELL TOWERS TSP OCT15 23091465 | RDL | QC Batch |
| Particulate Weight on Filter | mg | 23.8 | 45.3 | 7.2 | 8.3 | 5.0 | 9042888 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

| Bureau Veritas ID | | XNQ615 | XNQ616 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2023/10/21 | 2023/10/27 | | |
| COC Number | | na | na | | |
| | UNITS | BELL TOWERS TSP OCT21 23091466 | BELL TOWERS TSP OCT27 23041354 | RDL | QC Batch |
| Particulate Weight on Filter | mg | 8.2 | 6.7 | 5.0 | 9042888 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3Y9836
Report Date: 2023/11/24

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: CB

## MERCURY BY COLD VAPOUR AA (FILTER)

| Bureau Veritas ID | | XNQ611 | XNQ612 | XNQ613 | XNQ613 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/09/27 | 2023/10/03 | 2023/10/09 | 2023/10/09 | | |
| COC Number | | na | na | na | na | | |
| | UNITS | BELL TOWERS TSP SEP27 23041351 | BELL TOWERS TSP OCT3 23041352 | BELL TOWERS TSP OCT9 23041353 | BELL TOWERS TSP OCT9 23041353 Lab-Dup | RDL | QC Batch |
| **Metals** | | | | | | | |
| Total Mercury (Hg) | ug | <0.02 | <0.02 | <0.02 | <0.02 | 0.02 | 9062975 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

| Bureau Veritas ID | | XNQ614 | XNQ615 | XNQ616 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2023/10/15 | 2023/10/21 | 2023/10/27 | | |
| COC Number | | na | na | na | | |
| | UNITS | BELL TOWERS TSP OCT15 23091465 | BELL TOWERS TSP OCT21 23091466 | BELL TOWERS TSP OCT27 23041354 | RDL | QC Batch |
| **Metals** | | | | | | |
| Total Mercury (Hg) | ug | <0.02 | <0.02 | <0.02 | 0.02 | 9062975 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3Y9836
Report Date: 2023/11/24

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: CB

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | XNQ611 | XNQ612 | XNQ612 | XNQ613 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/09/27 | 2023/10/03 | 2023/10/03 | 2023/10/09 | | |
| COC Number | | na | na | na | na | | |
| | UNITS | BELL TOWERS TSP SEP27 23041351 | BELL TOWERS TSP OCT3 23041352 | BELL TOWERS TSP OCT3 23041352 Lab-Dup | BELL TOWERS TSP OCT9 23041353 | RDL | QC Batch |
| **Metals** | | | | | | | |
| Arsenic (As) | ug | <6.0 | <6.0 | <6.0 | <6.0 | 6.0 | 9059818 |
| Cadmium (Cd) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 9059818 |
| Chromium (Cr) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 9059818 |
| Cobalt (Co) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 9059818 |
| Copper (Cu) | ug | 70.4 | 57.2 | 56.2 | 58.1 | 5.0 | 9059818 |
| Iron (Fe) | ug | 131 | 370 | 342 | <50 | 50 | 9059818 |
| Lead (Pb) | ug | <3.0 | 9.0 | 7.1 | <3.0 | 3.0 | 9059818 |
| Lithium (Li) | ug | <27 | <27 | <27 | <27 | 27 | 9059818 |
| Manganese (Mn) | ug | 3.5 | 17.0 | 15.7 | 1.4 | 1.0 | 9059818 |
| Nickel (Ni) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 9059818 |
| Selenium (Se) | ug | <10 | <10 | <10 | <10 | 10 | 9059818 |
| Sulphur (S) | ug | 481 | 773 | 707 | 126 | 25 | 9059818 |
| Vanadium (V) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 9059818 |
| Zinc (Zn) | ug | 14.4 | 40.2 | 39.7 | 5.4 | 5.0 | 9059818 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3Y9836
Report Date: 2023/11/24

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: CB

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | XNQ614 | XNQ615 | XNQ616 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2023/10/15 | 2023/10/21 | 2023/10/27 | | |
| COC Number | | na | na | na | | |
| | UNITS | BELL TOWERS TSP OCT15 23091465 | BELL TOWERS TSP OCT21 23091466 | BELL TOWERS TSP OCT27 23041354 | RDL | QC Batch |
| **Metals** | | | | | | |
| Arsenic (As) | ug | <6.0 | <6.0 | <6.0 | 6.0 | 9059818 |
| Cadmium (Cd) | ug | <2.0 | <2.0 | <2.0 | 2.0 | 9059818 |
| Chromium (Cr) | ug | <5.0 | <5.0 | <5.0 | 5.0 | 9059818 |
| Cobalt (Co) | ug | <2.0 | <2.0 | <2.0 | 2.0 | 9059818 |
| Copper (Cu) | ug | 86.7 | 90.1 | 95.3 | 5.0 | 9059818 |
| Iron (Fe) | ug | 69 | <50 | 51 | 50 | 9059818 |
| Lead (Pb) | ug | <3.0 | <3.0 | <3.0 | 3.0 | 9059818 |
| Lithium (Li) | ug | <27 | <27 | <27 | 27 | 9059818 |
| Manganese (Mn) | ug | 3.4 | 2.2 | 1.4 | 1.0 | 9059818 |
| Nickel (Ni) | ug | <3.0 | <3.0 | <3.0 | 3.0 | 9059818 |
| Selenium (Se) | ug | <10 | <10 | <10 | 10 | 9059818 |
| Sulphur (S) | ug | 299 | 190 | 140 | 25 | 9059818 |
| Vanadium (V) | ug | <5.0 | <5.0 | <5.0 | 5.0 | 9059818 |
| Zinc (Zn) | ug | 5.8 | 5.7 | 9.5 | 5.0 | 9059818 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## TEST SUMMARY

**Bureau Veritas ID:** XNQ611 **Collected:** 2023/09/27
**Sample ID:** BELL TOWERS TSP SEP27 23041351 **Shipped:**
**Matrix:** Filter **Received:** 2023/11/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9062975 | 2023/11/22 | 2023/11/23 | Japneet Gill |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 9059818 | 2023/11/20 | 2023/11/23 | Indira HarryPaul |
| Particulates on Filter (Method IO-3.1) | BAL | 9042888 | 2023/11/10 | 2023/11/10 | Violeta Porcila |

**Bureau Veritas ID:** XNQ612 **Collected:** 2023/10/03
**Sample ID:** BELL TOWERS TSP OCT3 23041352 **Shipped:**
**Matrix:** Filter **Received:** 2023/11/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9062975 | 2023/11/22 | 2023/11/23 | Japneet Gill |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 9059818 | 2023/11/20 | 2023/11/23 | Indira HarryPaul |
| Particulates on Filter (Method IO-3.1) | BAL | 9042888 | 2023/11/10 | 2023/11/10 | Violeta Porcila |

**Bureau Veritas ID:** XNQ612 Dup **Collected:** 2023/10/03
**Sample ID:** BELL TOWERS TSP OCT3 23041352 **Shipped:**
**Matrix:** Filter **Received:** 2023/11/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 9059818 | 2023/11/20 | 2023/11/23 | Indira HarryPaul |

**Bureau Veritas ID:** XNQ613 **Collected:** 2023/10/09
**Sample ID:** BELL TOWERS TSP OCT9 23041353 **Shipped:**
**Matrix:** Filter **Received:** 2023/11/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9062975 | 2023/11/22 | 2023/11/23 | Japneet Gill |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 9059818 | 2023/11/20 | 2023/11/23 | Indira HarryPaul |
| Particulates on Filter (Method IO-3.1) | BAL | 9042888 | 2023/11/10 | 2023/11/10 | Violeta Porcila |

**Bureau Veritas ID:** XNQ613 Dup **Collected:** 2023/10/09
**Sample ID:** BELL TOWERS TSP OCT9 23041353 **Shipped:**
**Matrix:** Filter **Received:** 2023/11/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9062975 | 2023/11/22 | 2023/11/23 | Japneet Gill |

**Bureau Veritas ID:** XNQ614 **Collected:** 2023/10/15
**Sample ID:** BELL TOWERS TSP OCT15 23091465 **Shipped:**
**Matrix:** Filter **Received:** 2023/11/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9062975 | 2023/11/22 | 2023/11/23 | Japneet Gill |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 9059818 | 2023/11/20 | 2023/11/23 | Indira HarryPaul |
| Particulates on Filter (Method IO-3.1) | BAL | 9042888 | 2023/11/10 | 2023/11/10 | Violeta Porcila |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3Y9836
Report Date: 2023/11/24

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: CB

## TEST SUMMARY

**Bureau Veritas ID:** XNQ615
**Sample ID:** BELL TOWERS TSP OCT21 23091466
**Matrix:** Filter

**Collected:** 2023/10/21
**Shipped:**
**Received:** 2023/11/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9062975 | 2023/11/22 | 2023/11/23 | Japneet Gill |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 9059818 | 2023/11/20 | 2023/11/23 | Indira HarryPaul |
| Particulates on Filter (Method IO-3.1) | BAL | 9042888 | 2023/11/10 | 2023/11/10 | Violeta Porcila |

**Bureau Veritas ID:** XNQ616
**Sample ID:** BELL TOWERS TSP OCT27 23041354
**Matrix:** Filter

**Collected:** 2023/10/27
**Shipped:**
**Received:** 2023/11/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9062975 | 2023/11/22 | 2023/11/23 | Japneet Gill |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 9059818 | 2023/11/20 | 2023/11/23 | Indira HarryPaul |
| Particulates on Filter (Method IO-3.1) | BAL | 9042888 | 2023/11/10 | 2023/11/10 | Violeta Porcila |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT



| | | | Matrix Spike | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 9059818 | Arsenic (As) | 2023/11/23 | 94 (1) | 75 - 125 | 100 | 85 - 115 | <6.0 | ug | NC (3) | 20 |
| 9059818 | Cadmium (Cd) | 2023/11/23 | 96 (1) | 75 - 125 | 99 | 85 - 115 | <2.0 | ug | NC (3) | 20 |
| 9059818 | Chromium (Cr) | 2023/11/23 | 95 (1) | 75 - 125 | 97 | 85 - 115 | <5.0 | ug | NC (3) | 20 |
| 9059818 | Cobalt (Co) | 2023/11/23 | 95 (1) | 75 - 125 | 99 | 85 - 115 | <2.0 | ug | NC (3) | 20 |
| 9059818 | Copper (Cu) | 2023/11/23 | 96 (1) | 75 - 125 | 102 | 85 - 115 | <5.0 | ug | 1.7 (3) | 20 |
| 9059818 | Iron (Fe) | 2023/11/23 | 96 (1) | 75 - 125 | 99 | 85 - 115 | <50 | ug | 7.7 (3) | 20 |
| 9059818 | Lead (Pb) | 2023/11/23 | 94 (1) | 75 - 125 | 98 | 85 - 115 | <3.0 | ug | NC (3) | 20 |
| 9059818 | Lithium (Li) | 2023/11/23 | | | | | <27 | ug | NC (3) | 20 |
| 9059818 | Manganese (Mn) | 2023/11/23 | 95 (1) | 75 - 125 | 100 | 85 - 115 | <1.0 | ug | 8.0 (3) | 20 |
| 9059818 | Nickel (Ni) | 2023/11/23 | 95 (1) | 75 - 125 | 100 | 85 - 115 | <3.0 | ug | NC (3) | 20 |
| 9059818 | Selenium (Se) | 2023/11/23 | 95 (1) | 75 - 125 | 105 | 85 - 115 | <10 | ug | NC (3) | 20 |
| 9059818 | Sulphur (S) | 2023/11/23 | 89 (1) | 75 - 125 | 100 | 85 - 115 | <25 | ug | 8.8 (3) | 20 |
| 9059818 | Vanadium (V) | 2023/11/23 | 93 (1) | 75 - 125 | 97 | 85 - 115 | <5.0 | ug | NC (3) | 20 |
| 9059818 | Zinc (Zn) | 2023/11/23 | 92 (1) | 75 - 125 | 97 | 85 - 115 | <5.0 | ug | 1.2 (3) | 20 |
| 9062975 | Total Mercury (Hg) | 2023/11/23 | 101 (4) | 80 - 120 | 99 | 90 - 110 | <0.002 | ug | NC (5) | 20 |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Matrix Spike Parent ID [XNQ612-01]

(2) Duplicate Parent ID

(3) Duplicate Parent ID [XNQ612-01]

(4) Matrix Spike Parent ID [XNQ613-01]

(5) Duplicate Parent ID [XNQ613-01]



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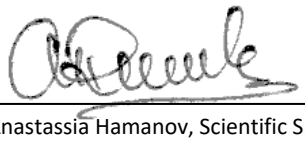
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3Y9836
Report Date: 2023/11/24

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: CB

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

08-Nov-23 09:34

Jade Browne

C3Y9836

J_L AIR-RmTmp

AIR

BUREAU VERITAS

CAM FCD-01302 /3

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# CHAIN OF CUSTODY FORM - AIR

Page ____ of _

**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Ashley Moncrief
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: CB + EM

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening (Inner Diameter) | Dust Fall Opening (Outer Diameter) | Silica | PM 10 | PM 2.5 | Dustfall | TSP | Metals | Mercury | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bell Towers TSP Sep 27 23041351 | | 42 | Sep 27 2023 | | | | | | | | X | X | X | | | | |
| Bell Towers TSP Oct 3 23041352 | | 42 | Oct 3 2023 | | | | | | | | X | X | X | | | | |
| Bell Towers TSP Oct 9 23041353 | | 44 | Oct 9 2023 | | | | | | | | X | X | X | | | | |
| Bell Towers TSP Oct 15 23091465 | | 43 | Oct 15 2023 | | | | | | | | X | X | X | | | | |
| Bell Towers TSP Oct 21 23091466 | | 42 | Oct 21 2023 | | | | | | | | X | X | X | | | | |
| Bell Towers TSP Oct 27 23041354 | | 44 | Oct 27 2023 | | | | | | | | X | X | X | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
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**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2003.2023D.100
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Jade Browne

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com; emily.meek@kinross.com; aaron.peloquin@kinross.com; curtis.bloemberg@kinross.com***

Client Signature: E Meek
Affiliation:
Date/Time: 8 Nov 23

Received by: [illegible]
Affiliation:
Date/Time: 2023/11/08 09:34

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions*

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/12/20**
Report #: R7963797
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3AZ800**
**Received: 2023/12/07, 09:25**

Sample Matrix: Filter
# Samples Received: 5

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | 5 | 2023/12/15 | 2023/12/18 | BRL SOP-00104 | EPA 7471B m |
| Total Metals on Hi-Vol Filter (6010Cmod) | 5 | 2023/12/19 | 2023/12/20 | CAM SOP-00408 | EPA 6010D m |
| Particulates on Filter (Method IO-3.1) | 5 | 2023/12/14 | 2023/12/14 | CAM SOP-00942 | Method IO-3.1 |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCCFP, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
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Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.


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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/12/20**
Report #: R7963797
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3AZ800**
**Received: 2023/12/07, 09:25**

Encryption Key

Jade Browne
Project Manager Assistant - Air
20 Dec 2023 17:10:41

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C3AZ800
Report Date: 2023/12/20

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | XVI084 | XVI085 | XVI086 | XVI087 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/11/02 | 2023/11/08 | 2023/11/14 | 2023/11/20 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | BELL TOWERS HI VOL QUARTZ 23091467 NOV 2 | BELL TOWERS HI VOL QUARTZ 23091468 NOV 8 | BELL TOWERS HI VOL QUARTZ 23091469 NOV 14 | BELL TOWERS HI VOL QUARTZ 23091470 NOV 20 | RDL | QC Batch |
| Particulate Weight on Filter | mg | 7.2 | <5.0 | 12.4 | 6.4 | 5.0 | 9111571 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

| Bureau Veritas ID | | XVI088 | | |
|---|---|---|---|---|
| Sampling Date | | 2023/11/26 | | |
| COC Number | | n/a | | |
| | UNITS | BELL TOWERS HI VOL QUARTZ 23041355 NOV 26 | RDL | QC Batch |
| Particulate Weight on Filter | mg | 14.1 | 5.0 | 9111571 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3AZ800
Report Date: 2023/12/20

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## MERCURY BY COLD VAPOUR AA (FILTER)

| Bureau Veritas ID | | XVI084 | XVI085 | XVI086 | XVI087 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/11/02 | 2023/11/08 | 2023/11/14 | 2023/11/20 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | BELL TOWERS HI VOL QUARTZ 23091467 NOV 2 | BELL TOWERS HI VOL QUARTZ 23091468 NOV 8 | BELL TOWERS HI VOL QUARTZ 23091469 NOV 14 | BELL TOWERS HI VOL QUARTZ 23091470 NOV 20 | RDL | QC Batch |
| **Metals** | | | | | | | |
| Total Mercury (Hg) | ug | <0.02 | <0.02 | <0.02 | <0.02 | 0.02 | 9114339 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

| Bureau Veritas ID | | XVI088 | | |
|---|---|---|---|---|
| Sampling Date | | 2023/11/26 | | |
| COC Number | | n/a | | |
| | UNITS | BELL TOWERS HI VOL QUARTZ 23041355 NOV 26 | RDL | QC Batch |
| **Metals** | | | | |
| Total Mercury (Hg) | ug | <0.02 | 0.02 | 9114339 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3AZ800
Report Date: 2023/12/20

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | XVI084 | XVI085 | XVI086 | XVI087 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/11/02 | 2023/11/08 | 2023/11/14 | 2023/11/20 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | BELL TOWERS HI VOL QUARTZ 23091467 NOV 2 | BELL TOWERS HI VOL QUARTZ 23091468 NOV 8 | BELL TOWERS HI VOL QUARTZ 23091469 NOV 14 | BELL TOWERS HI VOL QUARTZ 23091470 NOV 20 | RDL | QC Batch |
| **Metals** | | | | | | | |
| Arsenic (As) | ug | <6.0 | <6.0 | <6.0 | <6.0 | 6.0 | 9115479 |
| Cadmium (Cd) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 9115479 |
| Chromium (Cr) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 9115479 |
| Cobalt (Co) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 9115479 |
| Copper (Cu) | ug | 83.9 | 73.8 | 83.1 | 58.2 | 5.0 | 9115479 |
| Iron (Fe) | ug | 69 | <50 | 175 | 108 | 50 | 9115479 |
| Lead (Pb) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 9115479 |
| Lithium (Li) | ug | <27 | <27 | <27 | <27 | 27 | 9115479 |
| Manganese (Mn) | ug | 3.3 | <1.0 | 10.8 | 4.8 | 1.0 | 9115479 |
| Nickel (Ni) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 9115479 |
| Selenium (Se) | ug | <10 | <10 | <10 | <10 | 10 | 9115479 |
| Sulphur (S) | ug | 755 | 92 | 235 | 299 | 25 | 9115479 |
| Vanadium (V) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 9115479 |
| Zinc (Zn) | ug | 10.5 | 7.2 | 8.4 | 9.4 | 5.0 | 9115479 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | XVI088 | | |
|---|---|---|---|---|
| Sampling Date | | 2023/11/26 | | |
| COC Number | | n/a | | |
| | UNITS | BELL TOWERS HI VOL QUARTZ 23041355 NOV 26 | RDL | QC Batch |
| **Metals** | | | | |
| Arsenic (As) | ug | 7.8 | 6.0 | 9115479 |
| Cadmium (Cd) | ug | <2.0 | 2.0 | 9115479 |
| Chromium (Cr) | ug | <5.0 | 5.0 | 9115479 |
| Cobalt (Co) | ug | <2.0 | 2.0 | 9115479 |
| Copper (Cu) | ug | 85.1 | 5.0 | 9115479 |
| Iron (Fe) | ug | 157 | 50 | 9115479 |
| Lead (Pb) | ug | <3.0 | 3.0 | 9115479 |
| Lithium (Li) | ug | <27 | 27 | 9115479 |
| Manganese (Mn) | ug | 6.7 | 1.0 | 9115479 |
| Nickel (Ni) | ug | <3.0 | 3.0 | 9115479 |
| Selenium (Se) | ug | <10 | 10 | 9115479 |
| Sulphur (S) | ug | 266 | 25 | 9115479 |
| Vanadium (V) | ug | <5.0 | 5.0 | 9115479 |
| Zinc (Zn) | ug | 13.1 | 5.0 | 9115479 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch





Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3AZ800
Report Date: 2023/12/20

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** XVI084 **Collected:** 2023/11/02
**Sample ID:** BELL TOWERS HI VOL QUARTZ 23091467 NOV 2 **Shipped:**
**Matrix:** Filter **Received:** 2023/12/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9114339 | 2023/12/15 | 2023/12/18 | Thuy Linh Nguyen |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 9115479 | 2023/12/19 | 2023/12/20 | Indira HarryPaul |
| Particulates on Filter (Method IO-3.1) | BAL | 9111571 | 2023/12/14 | 2023/12/14 | Ka Man Chan |

**Bureau Veritas ID:** XVI085 **Collected:** 2023/11/08
**Sample ID:** BELL TOWERS HI VOL QUARTZ 23091468 NOV 8 **Shipped:**
**Matrix:** Filter **Received:** 2023/12/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9114339 | 2023/12/15 | 2023/12/18 | Thuy Linh Nguyen |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 9115479 | 2023/12/19 | 2023/12/20 | Indira HarryPaul |
| Particulates on Filter (Method IO-3.1) | BAL | 9111571 | 2023/12/14 | 2023/12/14 | Ka Man Chan |

**Bureau Veritas ID:** XVI086 **Collected:** 2023/11/14
**Sample ID:** BELL TOWERS HI VOL QUARTZ 23091469 NOV 14 **Shipped:**
**Matrix:** Filter **Received:** 2023/12/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9114339 | 2023/12/15 | 2023/12/18 | Thuy Linh Nguyen |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 9115479 | 2023/12/19 | 2023/12/20 | Indira HarryPaul |
| Particulates on Filter (Method IO-3.1) | BAL | 9111571 | 2023/12/14 | 2023/12/14 | Ka Man Chan |

**Bureau Veritas ID:** XVI087 **Collected:** 2023/11/20
**Sample ID:** BELL TOWERS HI VOL QUARTZ 23091470 NOV 20 **Shipped:**
**Matrix:** Filter **Received:** 2023/12/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9114339 | 2023/12/15 | 2023/12/18 | Thuy Linh Nguyen |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 9115479 | 2023/12/19 | 2023/12/20 | Indira HarryPaul |
| Particulates on Filter (Method IO-3.1) | BAL | 9111571 | 2023/12/14 | 2023/12/14 | Ka Man Chan |

**Bureau Veritas ID:** XVI088 **Collected:** 2023/11/26
**Sample ID:** BELL TOWERS HI VOL QUARTZ 23041355 NOV 26 **Shipped:**
**Matrix:** Filter **Received:** 2023/12/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9114339 | 2023/12/15 | 2023/12/18 | Thuy Linh Nguyen |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 9115479 | 2023/12/19 | 2023/12/20 | Indira HarryPaul |
| Particulates on Filter (Method IO-3.1) | BAL | 9111571 | 2023/12/14 | 2023/12/14 | Ka Man Chan |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT



| | | | Matrix Spike | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 9114339 | Total Mercury (Hg) | 2023/12/18 | 99 | 80 - 120 | 94 | 90 - 110 | <0.002 | ug | 9.2 (1) | 20 |
| 9115479 | Arsenic (As) | 2023/12/20 | 98 | 75 - 125 | 102 | 85 - 115 | <6.0 | ug | NC (1) | 20 |
| 9115479 | Cadmium (Cd) | 2023/12/20 | 98 | 75 - 125 | 99 | 85 - 115 | <2.0 | ug | NC (1) | 20 |
| 9115479 | Chromium (Cr) | 2023/12/20 | 101 | 75 - 125 | 100 | 85 - 115 | <5.0 | ug | NC (1) | 20 |
| 9115479 | Cobalt (Co) | 2023/12/20 | 96 | 75 - 125 | 96 | 85 - 115 | <2.0 | ug | NC (1) | 20 |
| 9115479 | Copper (Cu) | 2023/12/20 | 99 | 75 - 125 | 98 | 85 - 115 | <5.0 | ug | 4.7 (1) | 20 |
| 9115479 | Iron (Fe) | 2023/12/20 | 97 | 75 - 125 | 97 | 85 - 115 | <50 | ug | 1.8 (1) | 20 |
| 9115479 | Lead (Pb) | 2023/12/20 | 96 | 75 - 125 | 96 | 85 - 115 | <3.0 | ug | NC (1) | 20 |
| 9115479 | Lithium (Li) | 2023/12/20 | | | | | <27 | ug | NC (1) | 20 |
| 9115479 | Manganese (Mn) | 2023/12/20 | 98 | 75 - 125 | 99 | 85 - 115 | <1.0 | ug | 8.8 (1) | 20 |
| 9115479 | Nickel (Ni) | 2023/12/20 | 97 | 75 - 125 | 97 | 85 - 115 | <3.0 | ug | NC (1) | 20 |
| 9115479 | Selenium (Se) | 2023/12/20 | 102 | 75 - 125 | 101 | 85 - 115 | <10 | ug | NC (1) | 20 |
| 9115479 | Sulphur (S) | 2023/12/20 | 100 | 75 - 125 | 98 | 85 - 115 | <25 | ug | 0.91 (1) | 20 |
| 9115479 | Vanadium (V) | 2023/12/20 | 96 | 75 - 125 | 96 | 85 - 115 | <5.0 | ug | NC (1) | 20 |
| 9115479 | Zinc (Zn) | 2023/12/20 | 96 | 75 - 125 | 95 | 85 - 115 | <5.0 | ug | 4.9 (1) | 20 |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Duplicate Parent ID



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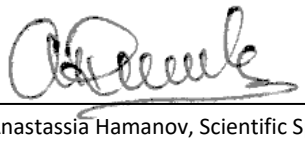
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3AZ800
Report Date: 2023/12/20

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

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# AIR

BUREAU VERITAS

6740 Campobello Rd
Mississauga Ontario ,L5N 2L8
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

## CHAIN OF CUSTODY FORM - AIR

CAM FCD-013(

Page _

**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM + CB + EM + AP

**SECTION**

07-Dec-23 09:25
Gina Baybayan
C3AZ800
URE AIR-RmTmp

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening (Inner Diameter | Dust Fall Opening (Outer Diameter | Silica | PM 10 | PM 2.5 | Dustfall | TSP | Metals | Mercury | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dustfall Bell Towers November XII589-01 | | | Nov 1 - Dec 1 | 9:00 | 5.5 | 6.5" | | | | X | | | | | | |
| Dustfall Tote Road November XII591-01 | | | Nov 1 - Dec 1 | 11:30 | 5.5" | 6.5" | | | | X | | | | | | |
| Dustfall Teardrop November XII590-01 | | | Nov 1 - Dec 1 | 10:00 | 5.5" | 6.5" | | | | X | | | | | | |
| Bell Towers Hi Vol Quartz 23091467 Nov 2 | | 43 | 2-Nov | | | | | | | | X | X | X | | | |
| Bell Towers Hi Vol Quartz 23091468 Nov 8 | | 43 | 8-Nov | | | | | | | | X | X | X | | | |
| Bell Towers Hi Vol Quartz 23091469 Nov 14 | | 44 | 14-Nov | | | | | | | | X | X | X | | | |
| Bell Towers Hi Vol Quartz 23091470 Nov 20 | | 43 | 20-Nov | | | | | | | | X | X | X | | | |
| Bell Towers Hi Vol Quartz 23041355 Nov 26 | | 44 | 26-Nov | | | | | | | | X | X | X | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2003.2023D.100
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Jade Browne

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.***
***ashley.moncrief@kinross.com; christopher.reid@kinross.***
***ryan.fletcher@woodplc.com; airgroup@woodplc.com;***
***emily.meek@kinross.com; aaron.peloquin@kinross.cor***
***curtis.bloemberg@kinross.com***

Client Signature: Jacob McFee
Affiliation: Kinross
Date/Time: Dec 1 /2023

Received by: PAT SAPPA BASSOLA
Affiliation:
Date/Time: 2023/12/07 09:25

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions*

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/02/08**
Report #: R8019942
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C414361**
**Received: 2024/01/15, 09:00**

Sample Matrix: Filter
# Samples Received: 7

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | 7 | 2024/01/25 | 2024/02/07 | BRL SOP-00104 | EPA 7471B m |
| Total Metals on Hi-Vol Filter (6010Cmod) | 7 | 2024/01/23 | 2024/01/24 | CAM SOP-00408 | EPA 6010D m |
| Particulates on Filter (Method IO-3.1) | 7 | 2024/01/19 | 2024/01/19 | CAM SOP-00942 | Method IO-3.1 |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/02/08**
Report #: R8019942
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C414361**
**Received: 2024/01/15, 09:00**

Encryption Key

Cristina (Maria) Bacchus
Project Manager
08 Feb 2024 11:35:04

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C414361
Report Date: 2024/02/08

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | YCY512 | YCY513 | YCY514 | YCY515 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/12/02 | 2023/12/08 | 2023/12/14 | 2023/12/20 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | HI VOL QUARTZ 23071643 BELL TOWERS | HI VOL QUARTZ 23071642 BELL TOWERS | HI VOL QUARTZ 23071641 BELL TOWERS | HI VOL QUARTZ 23071640 BELL TOWERS | RDL | QC Batch |
| Particulate Weight on Filter | mg | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 9172407 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

| Bureau Veritas ID | | YCY516 | YCY517 | YCY518 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2023/12/26 | 2023/12/31 | 2024/01/04 | | |
| COC Number | | n/a | n/a | n/a | | |
| | UNITS | HI VOL QUARTZ 23071639 BELL TOWERS | HI VOL QUARTZ 23092893 BELL TOWERS | HI VOL QUARTZ 23092894 BELL TOWERS | RDL | QC Batch |
| Particulate Weight on Filter | mg | <5.0 | <5.0 | <5.0 | 5.0 | 9172407 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C414361
Report Date: 2024/02/08

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## MERCURY BY COLD VAPOUR AA (FILTER)

| Bureau Veritas ID | | YCY512 | YCY512 | YCY513 | YCY514 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/12/02 | 2023/12/02 | 2023/12/08 | 2023/12/14 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | HI VOL QUARTZ 23071643 BELL TOWERS | HI VOL QUARTZ 23071643 BELL TOWERS Lab-Dup | HI VOL QUARTZ 23071642 BELL TOWERS | HI VOL QUARTZ 23071641 BELL TOWERS | RDL | QC Batch |
| **Metals** | | | | | | | |
| Total Mercury (Hg) | ug | <0.02 | <0.02 | <0.02 | <0.02 | 0.02 | 9182234 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

| Bureau Veritas ID | | YCY515 | YCY516 | YCY517 | YCY518 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/12/20 | 2023/12/26 | 2023/12/31 | 2024/01/04 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | HI VOL QUARTZ 23071640 BELL TOWERS | HI VOL QUARTZ 23071639 BELL TOWERS | HI VOL QUARTZ 23092893 BELL TOWERS | HI VOL QUARTZ 23092894 BELL TOWERS | RDL | QC Batch |
| **Metals** | | | | | | | |
| Total Mercury (Hg) | ug | <0.02 | <0.02 | <0.02 | <0.02 | 0.02 | 9182234 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C414361
Report Date: 2024/02/08

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | YCY512 | YCY513 | YCY514 | YCY515 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/12/02 | 2023/12/08 | 2023/12/14 | 2023/12/20 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | HI VOL QUARTZ 23071643 BELL TOWERS | HI VOL QUARTZ 23071642 BELL TOWERS | HI VOL QUARTZ 23071641 BELL TOWERS | HI VOL QUARTZ 23071640 BELL TOWERS | RDL | QC Batch |
| **Metals** | | | | | | | |
| Arsenic (As) | ug | <6.0 | <6.0 | <6.0 | <6.0 | 6.0 | 9177168 |
| Cadmium (Cd) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 9177168 |
| Chromium (Cr) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 9177168 |
| Cobalt (Co) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 9177168 |
| Copper (Cu) | ug | 68.5 | 83.5 | 144 | 156 | 5.0 | 9177168 |
| Iron (Fe) | ug | 153 | <50 | 66 | <50 | 50 | 9177168 |
| Lead (Pb) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 9177168 |
| Lithium (Li) | ug | <27 | <27 | <27 | <27 | 27 | 9177168 |
| Manganese (Mn) | ug | 9.8 | 1.6 | 2.7 | <1.0 | 1.0 | 9177168 |
| Nickel (Ni) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 9177168 |
| Selenium (Se) | ug | <10 | <10 | <10 | <10 | 10 | 9177168 |
| Sulphur (S) | ug | 426 | 228 | 268 | 143 | 25 | 9177168 |
| Vanadium (V) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 9177168 |
| Zinc (Zn) | ug | 10.2 | 8.2 | 10.3 | <5.0 | 5.0 | 9177168 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C414361
Report Date: 2024/02/08

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | YCY516 | YCY517 | YCY518 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2023/12/26 | 2023/12/31 | 2024/01/04 | | |
| COC Number | | n/a | n/a | n/a | | |
| | UNITS | HI VOL QUARTZ 23071639 BELL TOWERS | HI VOL QUARTZ 23092893 BELL TOWERS | HI VOL QUARTZ 23092894 BELL TOWERS | RDL | QC Batch |
| **Metals** | | | | | | |
| Arsenic (As) | ug | <6.0 | <6.0 | <6.0 | 6.0 | 9177168 |
| Cadmium (Cd) | ug | <2.0 | <2.0 | <2.0 | 2.0 | 9177168 |
| Chromium (Cr) | ug | <5.0 | <5.0 | <5.0 | 5.0 | 9177168 |
| Cobalt (Co) | ug | <2.0 | <2.0 | <2.0 | 2.0 | 9177168 |
| Copper (Cu) | ug | 156 | 110 | 63.4 | 5.0 | 9177168 |
| Iron (Fe) | ug | <50 | <50 | <50 | 50 | 9177168 |
| Lead (Pb) | ug | <3.0 | <3.0 | <3.0 | 3.0 | 9177168 |
| Lithium (Li) | ug | <27 | <27 | <27 | 27 | 9177168 |
| Manganese (Mn) | ug | <1.0 | <1.0 | 1.2 | 1.0 | 9177168 |
| Nickel (Ni) | ug | <3.0 | <3.0 | <3.0 | 3.0 | 9177168 |
| Selenium (Se) | ug | <10 | <10 | <10 | 10 | 9177168 |
| Sulphur (S) | ug | 117 | 213 | 182 | 25 | 9177168 |
| Vanadium (V) | ug | <5.0 | <5.0 | <5.0 | 5.0 | 9177168 |
| Zinc (Zn) | ug | 5.3 | 6.4 | 6.6 | 5.0 | 9177168 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C414361
Report Date: 2024/02/08

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** YCY512 **Collected:** 2023/12/02
**Sample ID:** HI VOL QUARTZ 23071643 BELL TOWERS **Shipped:**
**Matrix:** Filter **Received:** 2024/01/15

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9182234 | 2024/01/25 | 2024/02/07 | Gagandeep Rai |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 9177168 | 2024/01/23 | 2024/01/24 | Indira HarryPaul |
| Particulates on Filter (Method IO-3.1) | BAL | 9172407 | 2024/01/19 | 2024/01/19 | Ka Man Chan |

**Bureau Veritas ID:** YCY512 Dup **Collected:** 2023/12/02
**Sample ID:** HI VOL QUARTZ 23071643 BELL TOWERS **Shipped:**
**Matrix:** Filter **Received:** 2024/01/15

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9182234 | 2024/01/25 | 2024/02/07 | Gagandeep Rai |

**Bureau Veritas ID:** YCY513 **Collected:** 2023/12/08
**Sample ID:** HI VOL QUARTZ 23071642 BELL TOWERS **Shipped:**
**Matrix:** Filter **Received:** 2024/01/15

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9182234 | 2024/01/25 | 2024/02/07 | Gagandeep Rai |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 9177168 | 2024/01/23 | 2024/01/24 | Indira HarryPaul |
| Particulates on Filter (Method IO-3.1) | BAL | 9172407 | 2024/01/19 | 2024/01/19 | Ka Man Chan |

**Bureau Veritas ID:** YCY514 **Collected:** 2023/12/14
**Sample ID:** HI VOL QUARTZ 23071641 BELL TOWERS **Shipped:**
**Matrix:** Filter **Received:** 2024/01/15

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9182234 | 2024/01/25 | 2024/02/07 | Gagandeep Rai |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 9177168 | 2024/01/23 | 2024/01/24 | Indira HarryPaul |
| Particulates on Filter (Method IO-3.1) | BAL | 9172407 | 2024/01/19 | 2024/01/19 | Ka Man Chan |

**Bureau Veritas ID:** YCY515 **Collected:** 2023/12/20
**Sample ID:** HI VOL QUARTZ 23071640 BELL TOWERS **Shipped:**
**Matrix:** Filter **Received:** 2024/01/15

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9182234 | 2024/01/25 | 2024/02/07 | Gagandeep Rai |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 9177168 | 2024/01/23 | 2024/01/24 | Indira HarryPaul |
| Particulates on Filter (Method IO-3.1) | BAL | 9172407 | 2024/01/19 | 2024/01/19 | Ka Man Chan |

**Bureau Veritas ID:** YCY516 **Collected:** 2023/12/26
**Sample ID:** HI VOL QUARTZ 23071639 BELL TOWERS **Shipped:**
**Matrix:** Filter **Received:** 2024/01/15

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9182234 | 2024/01/25 | 2024/02/07 | Gagandeep Rai |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C414361
Report Date: 2024/02/08

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** YCY516 **Collected:** 2023/12/26
**Sample ID:** HI VOL QUARTZ 23071639 BELL TOWERS **Shipped:**
**Matrix:** Filter **Received:** 2024/01/15

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 9177168 | 2024/01/23 | 2024/01/24 | Indira HarryPaul |
| Particulates on Filter (Method IO-3.1) | BAL | 9172407 | 2024/01/19 | 2024/01/19 | Ka Man Chan |

**Bureau Veritas ID:** YCY517 **Collected:** 2023/12/31
**Sample ID:** HI VOL QUARTZ 23092893 BELL TOWERS **Shipped:**
**Matrix:** Filter **Received:** 2024/01/15

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9182234 | 2024/01/25 | 2024/02/07 | Gagandeep Rai |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 9177168 | 2024/01/23 | 2024/01/24 | Indira HarryPaul |
| Particulates on Filter (Method IO-3.1) | BAL | 9172407 | 2024/01/19 | 2024/01/19 | Ka Man Chan |

**Bureau Veritas ID:** YCY518 **Collected:** 2024/01/04
**Sample ID:** HI VOL QUARTZ 23092894 BELL TOWERS **Shipped:**
**Matrix:** Filter **Received:** 2024/01/15

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9182234 | 2024/01/25 | 2024/02/07 | Gagandeep Rai |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 9177168 | 2024/01/23 | 2024/01/24 | Indira HarryPaul |
| Particulates on Filter (Method IO-3.1) | BAL | 9172407 | 2024/01/19 | 2024/01/19 | Ka Man Chan |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C414361
Report Date: 2024/02/08

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## GENERAL COMMENTS

Sample YCY513 [HI VOL QUARTZ 23071642 BELL TOWERS] : NPF Filter not properly folded

Sample YCY515 [HI VOL QUARTZ 23071640 BELL TOWERS] : FT Filter torn

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT



| | | | Matrix Spike | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 9177168 | Arsenic (As) | 2024/01/24 | 102 | 75 - 125 | 98 | 85 - 115 | <6.0 | ug | NC (1) | 20 |
| 9177168 | Cadmium (Cd) | 2024/01/24 | 103 | 75 - 125 | 99 | 85 - 115 | <2.0 | ug | NC (1) | 20 |
| 9177168 | Chromium (Cr) | 2024/01/24 | 102 | 75 - 125 | 98 | 85 - 115 | <5.0 | ug | NC (1) | 20 |
| 9177168 | Cobalt (Co) | 2024/01/24 | 99 | 75 - 125 | 97 | 85 - 115 | <2.0 | ug | NC (1) | 20 |
| 9177168 | Copper (Cu) | 2024/01/24 | 104 | 75 - 125 | 102 | 85 - 115 | <5.0 | ug | 6.5 (1) | 20 |
| 9177168 | Iron (Fe) | 2024/01/24 | 104 | 75 - 125 | 101 | 85 - 115 | <50 | ug | 17 (1) | 20 |
| 9177168 | Lead (Pb) | 2024/01/24 | 98 | 75 - 125 | 95 | 85 - 115 | <3.0 | ug | NC (1) | 20 |
| 9177168 | Lithium (Li) | 2024/01/24 | | | | | <27 | ug | | |
| 9177168 | Manganese (Mn) | 2024/01/24 | 105 | 75 - 125 | 103 | 85 - 115 | <1.0 | ug | 10 (1) | 20 |
| 9177168 | Nickel (Ni) | 2024/01/24 | 101 | 75 - 125 | 98 | 85 - 115 | <3.0 | ug | NC (1) | 20 |
| 9177168 | Selenium (Se) | 2024/01/24 | 105 | 75 - 125 | 101 | 85 - 115 | <10 | ug | NC (1) | 20 |
| 9177168 | Sulphur (S) | 2024/01/24 | 108 | 75 - 125 | 101 | 85 - 115 | <25 | ug | 2.4 (1) | 20 |
| 9177168 | Vanadium (V) | 2024/01/24 | 101 | 75 - 125 | 99 | 85 - 115 | <5.0 | ug | NC (1) | 20 |
| 9177168 | Zinc (Zn) | 2024/01/24 | 99 | 75 - 125 | 97 | 85 - 115 | <5.0 | ug | 3.6 (1) | 20 |
| 9182234 | Total Mercury (Hg) | 2024/02/07 | 95 (2) | 80 - 120 | 99 | 90 - 110 | <0.002 | ug | NC (3) | 20 |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Duplicate Parent ID

(2) Matrix Spike Parent ID [YCY512-01]

(3) Duplicate Parent ID [YCY512-01]



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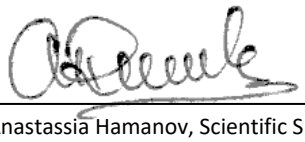
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C414361
Report Date: 2024/02/08

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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BUREAU VERITAS

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Phone: (905) 817-5700
Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR

CAM FCD-013(

Page _

**CLIENT INFORMATION**

Company Name: Kinross / WSP E&I Canada
Project Manager: Ryan Fletcher
e-mail: See comments below for email list
Address: 19 Young Street,
Red Lake, ON, CA, P0V 2M0
Phone: 1 647-283-4638 Fax:
Sampled by: JM + CB + EM + AP

**SECTION**

**ANALYSIS REQUESTED**

16-Jan-24 09:00
Gina Baybayan
C414361

AK0 AIR-RmTmp

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Run Time | Dust Fall Opening (Inner Diameter) | Dust Fall Opening (Outer Diameter) | Silica | PM 10 | PM 2.5 | Dustfall | TSP | Metals | Mercury | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hi Vol Quartz 23071643 Bell Towers | | 42 | 2-Dec | 23.41 | | | | | | | | | | | | |
| Hi Vol Quartz 23071642 Bell Towers | | 40 | 8-Dec | 22.23 | | | | | | | X | X | X | | | |
| Hi Vol Quartz 23071641 Bell Towers | | 42 | 14-Dec | 22.31 | | | | | | | X | X | X | | | |
| Hi Vol Quartz 23071640 Bell Towers | | 43 | 20-Dec | 23.48 | | | | | | | X | X | X | | | |
| Hi Vol Quartz 23071639 Bell Towers | | 43 | 26-Dec | 23.08 | | | | | | | X | X | X | | | |
| Hi Vol Quartz 23092893 Bell Towers | | 40 | 31-Dec | 22.79 | | | | | | | X | X | X | | | |
| Hi Vol Quartz 23092894 Bell Towers | | 0 | 4-Jan | 23.82 | | | | | | | X | X | X | | | |
| | | | | | | | | | | | X | X | X | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2003.2023D.100
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Jade Browne

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.***
***ashley.moncrief@kinross.com; ryan.fletcher@wsp.com***
***airgroup@woodplc.com; emily.meek@kinross.com;***
***aaron.peloquin@kinross.com; curtis.bloemberg@kinross.***

Client Signature:
Affiliation: Kinross
Date/Time: Jan 10 2024 11:00

Received by:
Affiliation:
Date/Time:

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Aneri ANERI 2024/01/15 0900

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/04/26**
Report #: R7603943
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3A2773**
**Received: 2023/04/13, 09:06**

Sample Matrix: Filter
# Samples Received: 11

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | 11 | 2023/04/25 | 2023/04/26 | BRL SOP-00104 | EPA 7471B m |
| Total Metals on Hi-Vol Filter (6010Cmod) | 11 | 2023/04/24 | 2023/04/26 | CAM SOP-00408 | EPA 6010D m |
| Particulates on Filter (Method IO-3.1) | 11 | 2023/04/21 | 2023/04/21 | CAM SOP-00942 | Method IO-3.1 |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/04/26**
Report #: R7603943
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3A2773**
**Received: 2023/04/13, 09:06**

Encryption Key

Cristina (Maria) Bacchus
Project Manager
26 Apr 2023 18:01:49

Please direct all questions regarding this Certificate of Analysis to:
Marinela Sim, Project Manager
Email: Marinela.Sim@bureauveritas.com
Phone# (905)817-5828

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C3A2773
Report Date: 2023/04/26

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | VNO549 | VNO550 | VNO551 | VNO552 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/01/30 00:00 | 2023/02/07 00:00 | 2023/02/12 00:00 | 2023/02/17 00:00 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | TSP BELL TOWERS JAN 30 23011600 | TSP BELL TOWERS FEB 7 23011601 | TSP BELL TOWERS FEB 12 23011602 | TSP BELL TOWERS FEB 17 23010949 | RDL | QC Batch |
| Particulate Weight on Filter | mg | <5.0 (1) | <5.0 (1) | <5.0 | <5.0 | 5.0 | 8622324 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Loose filter material

| Bureau Veritas ID | | VNO553 | VNO554 | VNO555 | VNO556 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/02/23 00:00 | 2023/02/28 00:00 | 2023/03/08 00:00 | 2023/03/14 00:00 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | TSP BELL TOWERS FEB 23 22120839 | TSP BELL TOWERS FEB 28 23010947 | TSP BELL TOWERS MAR 8 23010948 | TSP BELL TOWERS MAR 14 22120843 | RDL | QC Batch |
| Particulate Weight on Filter | mg | <5.0 (1) | <5.0 | <5.0 | 5.5 | 5.0 | 8622324 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Loose filter material

| Bureau Veritas ID | | VNO557 | VNO558 | VNO559 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2023/03/20 00:00 | 2023/03/26 00:00 | 2023/04/01 00:00 | | |
| COC Number | | n/a | n/a | n/a | | |
| | UNITS | TSP BELL TOWERS MAR 20 22111426 | TSP BELL TOWERS MAR 26 22111427 | TSP BELL TOWERS APR 1 22111428 | RDL | QC Batch |
| Particulate Weight on Filter | mg | <5.0 | <5.0 | <5.0 | 5.0 | 8622324 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## MERCURY BY COLD VAPOUR AA (FILTER)

| Bureau Veritas ID | | VNO549 | VNO550 | VNO551 | VNO551 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/01/30 00:00 | 2023/02/07 00:00 | 2023/02/12 00:00 | 2023/02/12 00:00 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | TSP BELL TOWERS JAN 30 23011600 | TSP BELL TOWERS FEB 7 23011601 | TSP BELL TOWERS FEB 12 23011602 | TSP BELL TOWERS FEB 12 23011602 Lab-Dup | RDL | QC Batch |
| **Metals** | | | | | | | |
| Total Mercury (Hg) | ug | <0.02 | <0.02 | <0.02 | <0.02 | 0.02 | 8626985 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

| Bureau Veritas ID | | VNO552 | VNO553 | VNO554 | VNO555 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/02/17 00:00 | 2023/02/23 00:00 | 2023/02/28 00:00 | 2023/03/08 00:00 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | TSP BELL TOWERS FEB 17 23010949 | TSP BELL TOWERS FEB 23 22120839 | TSP BELL TOWERS FEB 28 23010947 | TSP BELL TOWERS MAR 8 23010948 | RDL | QC Batch |
| **Metals** | | | | | | | |
| Total Mercury (Hg) | ug | <0.02 | <0.02 | <0.02 | <0.02 | 0.02 | 8626985 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

| Bureau Veritas ID | | VNO556 | VNO557 | VNO558 | VNO559 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/03/14 00:00 | 2023/03/20 00:00 | 2023/03/26 00:00 | 2023/04/01 00:00 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | TSP BELL TOWERS MAR 14 22120843 | TSP BELL TOWERS MAR 20 22111426 | TSP BELL TOWERS MAR 26 22111427 | TSP BELL TOWERS APR 1 22111428 | RDL | QC Batch |
| **Metals** | | | | | | | |
| Total Mercury (Hg) | ug | <0.02 | <0.02 | <0.02 | <0.02 | 0.02 | 8626985 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3A2773
Report Date: 2023/04/26

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | VNO549 | VNO550 | VNO550 | VNO551 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/01/30 00:00 | 2023/02/07 00:00 | 2023/02/07 00:00 | 2023/02/12 00:00 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | TSP BELL TOWERS JAN 30 23011600 | TSP BELL TOWERS FEB 7 23011601 | TSP BELL TOWERS FEB 7 23011601 Lab-Dup | TSP BELL TOWERS FEB 12 23011602 | RDL | QC Batch |
| **Metals** | | | | | | | |
| Arsenic (As) | ug | <6.0 | <6.0 | <6.0 | <6.0 | 6.0 | 8625022 |
| Cadmium (Cd) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 8625022 |
| Chromium (Cr) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 8625022 |
| Cobalt (Co) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 8625022 |
| Copper (Cu) | ug | 89.1 | 131 | 137 | 33.5 | 5.0 | 8625022 |
| Iron (Fe) | ug | <50 | <50 | 51 | 69 | 50 | 8625022 |
| Lead (Pb) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 8625022 |
| Lithium (Li) | ug | <27 | <27 | <27 | <27 | 27 | 8625022 |
| Manganese (Mn) | ug | 1.3 | 1.3 | 1.5 | 1.4 | 1.0 | 8625022 |
| Nickel (Ni) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 8625022 |
| Selenium (Se) | ug | <10 | <10 | <10 | <10 | 10 | 8625022 |
| Sulphur (S) | ug | 289 | 506 | 531 | 206 | 25 | 8625022 |
| Vanadium (V) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 8625022 |
| Zinc (Zn) | ug | 7.7 | 7.8 | 8.7 | 9.4 | 5.0 | 8625022 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3A2773
Report Date: 2023/04/26

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | VNO552 | VNO553 | VNO554 | VNO555 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/02/17 00:00 | 2023/02/23 00:00 | 2023/02/28 00:00 | 2023/03/08 00:00 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | TSP BELL TOWERS FEB 17 23010949 | TSP BELL TOWERS FEB 23 22120839 | TSP BELL TOWERS FEB 28 23010947 | TSP BELL TOWERS MAR 8 23010948 | RDL | QC Batch |
| **Metals** | | | | | | | |
| Arsenic (As) | ug | <6.0 | <6.0 | <6.0 | <6.0 | 6.0 | 8625022 |
| Cadmium (Cd) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 8625022 |
| Chromium (Cr) | ug | <5.0 | <5.0 | 5.2 | <5.0 | 5.0 | 8625022 |
| Cobalt (Co) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 8625022 |
| Copper (Cu) | ug | 150 | 153 | 153 | 85.2 | 5.0 | 8625022 |
| Iron (Fe) | ug | 51 | 64 | 72 | 108 | 50 | 8625022 |
| Lead (Pb) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 8625022 |
| Lithium (Li) | ug | <27 | <27 | <27 | <27 | 27 | 8625022 |
| Manganese (Mn) | ug | 1.3 | 1.5 | 1.9 | 2.8 | 1.0 | 8625022 |
| Nickel (Ni) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 8625022 |
| Selenium (Se) | ug | <10 | <10 | <10 | <10 | 10 | 8625022 |
| Sulphur (S) | ug | 334 | 397 | 509 | 447 | 25 | 8625022 |
| Vanadium (V) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 8625022 |
| Zinc (Zn) | ug | 7.6 | 8.7 | 8.7 | 11.1 | 5.0 | 8625022 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3A2773
Report Date: 2023/04/26

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | VNO556 | VNO557 | VNO558 | VNO559 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/03/14 00:00 | 2023/03/20 00:00 | 2023/03/26 00:00 | 2023/04/01 00:00 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | TSP BELL TOWERS MAR 14 22120843 | TSP BELL TOWERS MAR 20 22111426 | TSP BELL TOWERS MAR 26 22111427 | TSP BELL TOWERS APR 1 22111428 | RDL | QC Batch |
| **Metals** | | | | | | | |
| Arsenic (As) | ug | <6.0 | <6.0 | <6.0 | <6.0 | 6.0 | 8625022 |
| Cadmium (Cd) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 8625022 |
| Chromium (Cr) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 8625022 |
| Cobalt (Co) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 8625022 |
| Copper (Cu) | ug | 77.1 | 88.7 | 81.4 | 87.7 | 5.0 | 8625022 |
| Iron (Fe) | ug | 109 | 65 | 148 | 116 | 50 | 8625022 |
| Lead (Pb) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 8625022 |
| Lithium (Li) | ug | <27 | <27 | <27 | <27 | 27 | 8625022 |
| Manganese (Mn) | ug | 2.7 | 1.7 | 3.8 | 2.8 | 1.0 | 8625022 |
| Nickel (Ni) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 8625022 |
| Selenium (Se) | ug | <10 | <10 | <10 | <10 | 10 | 8625022 |
| Sulphur (S) | ug | 473 | 554 | 596 | 383 | 25 | 8625022 |
| Vanadium (V) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 8625022 |
| Zinc (Zn) | ug | 10.6 | 8.8 | 7.3 | 7.1 | 5.0 | 8625022 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## TEST SUMMARY

**Bureau Veritas ID:** VNO549 **Collected:** 2023/01/30
**Sample ID:** TSP BELL TOWERS JAN 30 23011600 **Shipped:**
**Matrix:** Filter **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8626985 | 2023/04/25 | 2023/04/26 | Gagandeep Rai |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8625022 | 2023/04/24 | 2023/04/26 | Medhat Nasr |
| Particulates on Filter (Method IO-3.1) | BAL | 8622324 | 2023/04/21 | 2023/04/21 | Andrea Contreras Arenas |

**Bureau Veritas ID:** VNO550 **Collected:** 2023/02/07
**Sample ID:** TSP BELL TOWERS FEB 7 23011601 **Shipped:**
**Matrix:** Filter **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8626985 | 2023/04/25 | 2023/04/26 | Gagandeep Rai |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8625022 | 2023/04/24 | 2023/04/26 | Medhat Nasr |
| Particulates on Filter (Method IO-3.1) | BAL | 8622324 | 2023/04/21 | 2023/04/21 | Andrea Contreras Arenas |

**Bureau Veritas ID:** VNO550 Dup **Collected:** 2023/02/07
**Sample ID:** TSP BELL TOWERS FEB 7 23011601 **Shipped:**
**Matrix:** Filter **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8625022 | 2023/04/24 | 2023/04/26 | Medhat Nasr |

**Bureau Veritas ID:** VNO551 **Collected:** 2023/02/12
**Sample ID:** TSP BELL TOWERS FEB 12 23011602 **Shipped:**
**Matrix:** Filter **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8626985 | 2023/04/25 | 2023/04/26 | Gagandeep Rai |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8625022 | 2023/04/24 | 2023/04/26 | Medhat Nasr |
| Particulates on Filter (Method IO-3.1) | BAL | 8622324 | 2023/04/21 | 2023/04/21 | Andrea Contreras Arenas |

**Bureau Veritas ID:** VNO551 Dup **Collected:** 2023/02/12
**Sample ID:** TSP BELL TOWERS FEB 12 23011602 **Shipped:**
**Matrix:** Filter **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8626985 | 2023/04/25 | 2023/04/26 | Gagandeep Rai |

**Bureau Veritas ID:** VNO552 **Collected:** 2023/02/17
**Sample ID:** TSP BELL TOWERS FEB 17 23010949 **Shipped:**
**Matrix:** Filter **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8626985 | 2023/04/25 | 2023/04/26 | Gagandeep Rai |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8625022 | 2023/04/24 | 2023/04/26 | Medhat Nasr |
| Particulates on Filter (Method IO-3.1) | BAL | 8622324 | 2023/04/21 | 2023/04/21 | Andrea Contreras Arenas |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## TEST SUMMARY

**Bureau Veritas ID:** VNO553 **Collected:** 2023/02/23
**Sample ID:** TSP BELL TOWERS FEB 23 22120839 **Shipped:**
**Matrix:** Filter **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8626985 | 2023/04/25 | 2023/04/26 | Gagandeep Rai |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8625022 | 2023/04/24 | 2023/04/26 | Medhat Nasr |
| Particulates on Filter (Method IO-3.1) | BAL | 8622324 | 2023/04/21 | 2023/04/21 | Andrea Contreras Arenas |

**Bureau Veritas ID:** VNO554 **Collected:** 2023/02/28
**Sample ID:** TSP BELL TOWERS FEB 28 23010947 **Shipped:**
**Matrix:** Filter **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8626985 | 2023/04/25 | 2023/04/26 | Gagandeep Rai |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8625022 | 2023/04/24 | 2023/04/26 | Medhat Nasr |
| Particulates on Filter (Method IO-3.1) | BAL | 8622324 | 2023/04/21 | 2023/04/21 | Andrea Contreras Arenas |

**Bureau Veritas ID:** VNO555 **Collected:** 2023/03/08
**Sample ID:** TSP BELL TOWERS MAR 8 23010948 **Shipped:**
**Matrix:** Filter **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8626985 | 2023/04/25 | 2023/04/26 | Gagandeep Rai |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8625022 | 2023/04/24 | 2023/04/26 | Medhat Nasr |
| Particulates on Filter (Method IO-3.1) | BAL | 8622324 | 2023/04/21 | 2023/04/21 | Andrea Contreras Arenas |

**Bureau Veritas ID:** VNO556 **Collected:** 2023/03/14
**Sample ID:** TSP BELL TOWERS MAR 14 22120843 **Shipped:**
**Matrix:** Filter **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8626985 | 2023/04/25 | 2023/04/26 | Gagandeep Rai |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8625022 | 2023/04/24 | 2023/04/26 | Medhat Nasr |
| Particulates on Filter (Method IO-3.1) | BAL | 8622324 | 2023/04/21 | 2023/04/21 | Andrea Contreras Arenas |

**Bureau Veritas ID:** VNO557 **Collected:** 2023/03/20
**Sample ID:** TSP BELL TOWERS MAR 20 22111426 **Shipped:**
**Matrix:** Filter **Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8626985 | 2023/04/25 | 2023/04/26 | Gagandeep Rai |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8625022 | 2023/04/24 | 2023/04/26 | Medhat Nasr |
| Particulates on Filter (Method IO-3.1) | BAL | 8622324 | 2023/04/21 | 2023/04/21 | Andrea Contreras Arenas |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3A2773
Report Date: 2023/04/26

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** VNO558
**Sample ID:** TSP BELL TOWERS MAR 26 22111427
**Matrix:** Filter

**Collected:** 2023/03/26
**Shipped:**
**Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8626985 | 2023/04/25 | 2023/04/26 | Gagandeep Rai |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8625022 | 2023/04/24 | 2023/04/26 | Medhat Nasr |
| Particulates on Filter (Method IO-3.1) | BAL | 8622324 | 2023/04/21 | 2023/04/21 | Andrea Contreras Arenas |

**Bureau Veritas ID:** VNO559
**Sample ID:** TSP BELL TOWERS APR 1 22111428
**Matrix:** Filter

**Collected:** 2023/04/01
**Shipped:**
**Received:** 2023/04/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8626985 | 2023/04/25 | 2023/04/26 | Gagandeep Rai |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8625022 | 2023/04/24 | 2023/04/26 | Medhat Nasr |
| Particulates on Filter (Method IO-3.1) | BAL | 8622324 | 2023/04/21 | 2023/04/21 | Andrea Contreras Arenas |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT



| | | | Matrix Spike | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8625022 | Arsenic (As) | 2023/04/26 | 103 (1) | 75 - 125 | 103 | 85 - 115 | <6.0 | ug | NC (3) | 20 |
| 8625022 | Cadmium (Cd) | 2023/04/26 | 103 (1) | 75 - 125 | 102 | 85 - 115 | <2.0 | ug | NC (3) | 20 |
| 8625022 | Chromium (Cr) | 2023/04/26 | 102 (1) | 75 - 125 | 102 | 85 - 115 | <5.0 | ug | NC (3) | 20 |
| 8625022 | Cobalt (Co) | 2023/04/26 | 101 (1) | 75 - 125 | 100 | 85 - 115 | <2.0 | ug | NC (3) | 20 |
| 8625022 | Copper (Cu) | 2023/04/26 | 105 (1) | 75 - 125 | 101 | 85 - 115 | <5.0 | ug | 4.4 (3) | 20 |
| 8625022 | Iron (Fe) | 2023/04/26 | 101 (1) | 75 - 125 | 101 | 85 - 115 | <50 | ug | 1.5 (3) | 20 |
| 8625022 | Lead (Pb) | 2023/04/26 | 101 (1) | 75 - 125 | 101 | 85 - 115 | <3.0 | ug | NC (3) | 20 |
| 8625022 | Lithium (Li) | 2023/04/26 | | | | | <27 | ug | NC (3) | 20 |
| 8625022 | Manganese (Mn) | 2023/04/26 | 103 (1) | 75 - 125 | 103 | 85 - 115 | <1.0 | ug | 16 (3) | 20 |
| 8625022 | Nickel (Ni) | 2023/04/26 | 102 (1) | 75 - 125 | 102 | 85 - 115 | <3.0 | ug | NC (3) | 20 |
| 8625022 | Selenium (Se) | 2023/04/26 | 102 (1) | 75 - 125 | 104 | 85 - 115 | <10 | ug | NC (3) | 20 |
| 8625022 | Sulphur (S) | 2023/04/26 | 108 (1) | 75 - 125 | 104 | 85 - 115 | <25 | ug | 4.9 (3) | 20 |
| 8625022 | Vanadium (V) | 2023/04/26 | 100 (1) | 75 - 125 | 100 | 85 - 115 | <5.0 | ug | NC (3) | 20 |
| 8625022 | Zinc (Zn) | 2023/04/26 | 101 (1) | 75 - 125 | 100 | 85 - 115 | <5.0 | ug | 11 (3) | 20 |
| 8626985 | Total Mercury (Hg) | 2023/04/26 | 98 (4) | 80 - 120 | 101 | 90 - 110 | <0.002 | ug | NC (5) | 20 |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Matrix Spike Parent ID [VNO550-01]

(2) Duplicate Parent ID

(3) Duplicate Parent ID [VNO550-01]

(4) Matrix Spike Parent ID [VNO551-01]

(5) Duplicate Parent ID [VNO551-01]



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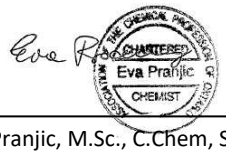
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:




Ewa Pranjic, M.Sc., C.Chem, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

13-Apr-23 09:06

Gina Baybayan

C3A2773

CAM FCD-01302 /3

obello Rd
ɜ Ontario ,L5N 2L8
.com

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR

Page ____ of ____

KTN: AIR RmTmp

**CLIENT INFORMATION**

Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:

**SECTION**

Sampled by: JM + CR

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening (Inner Diameter | Dust Fall Opening (Outer Diameter | Silica | PM 10 | Dustfall | TSP | Metals | Mercury | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TSP Bell Towers Jan 30 23011600 | | 40 CFM | 30-Jan | 0:00 | | | | | | X | X | X | | | | | |
| TSP Bell Towers Feb 7 23011601 | | 40 CFM | 7-Feb | 0:00 | | | | | | X | X | X | | | | | |
| TSP Bell Towers Feb 12 23011602 | | 40 CFM | 12-Feb | 0:00 | | | | | | X | X | X | | | | | |
| TSP Bell Towers Feb 17 23010949 | | 40 CFM | 17-Feb | 0:00 | | | | | | X | X | X | | | | | |
| TSP Bell Towers Feb 23 22120839 | | 40 CFM | 23-Feb | 0:00 | | | | | | X | X | X | | | | | |
| TSP Bell Towers Feb 28 23010947 | | 40 CFM | 28-Feb | 0:00 | | | | | | X | X | X | | | | | |
| TSP Bell Towers Mar 8 23010948 | | 40 CFM | 8-Mar | 0:00 | | | | | | X | X | X | | | | | |
| TSP Bell Towers Mar 14 22120843 | | 40 CFM | 14-Mar | 0:00 | | | | | | X | X | X | | | | | |
| TSP Bell Towers Mar 20 22111426 | | 40 CFM | 20-Mar | 0:00 | | | | | | X | X | X | | | | | |
| TSP Bell Towers Mar 26 22111427 | | 40 CFM | 26-Mar | 0:00 | | | | | | X | X | X | | | | | |
| TSP Bell Towers Apr 1 22111428 | | 40 CFM | 1-Apr | 0:00 | | | | | | X | X | X | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com***

| | | |
|---|---|---|
| Client Signature: | Received by: Ashley Sutherland | |
| Affiliation: | Affiliation: BV Fitness Sutherland | |
| Date/Time: | Date/Time: 2023/04/13 09:06 | |

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at*

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/05/24**
Report #: R7641277
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3D0920**
**Received: 2023/05/09, 09:05**

Sample Matrix: Filter
# Samples Received: 5

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | 5 | 2023/05/19 | 2023/05/19 | BRL SOP-00104 | EPA 7471B m |
| Total Metals on Hi-Vol Filter (6010Cmod) | 5 | 2023/05/17 | 2023/05/19 | CAM SOP-00408 | EPA 6010D m |
| Particulates on Filter (Method IO-3.1) | 5 | 2023/05/16 | 2023/05/16 | CAM SOP-00942 | Method IO-3.1 |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCCFP, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/05/24**
Report #: R7641277
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3D0920**
**Received: 2023/05/09, 09:05**

Encryption Key

Cristina (Maria) Bacchus
Project Manager
24 May 2023 14:29:55

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C3D0920
Report Date: 2023/05/24

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | VTJ475 | VTJ476 | VTJ477 | VTJ478 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/04/07 | 2023/04/13 | 2023/04/19 | 2023/04/26 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | H: VOL QUARTZ 22120842 BT APR 7 | H: VOL QUARTZ 22111429 BT APR 13 | H: VOL QUARTZ 22120840 BT APR 19 | H: VOL QUARTZ 22120841 BT APR 26 | RDL | QC Batch |
| Particulate Weight on Filter | mg | 6.7 | <5.0 | 9.5 | 7.7 | 5.0 | 8667088 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

| Bureau Veritas ID | | VTJ479 | | |
|---|---|---|---|---|
| Sampling Date | | 2023/05/02 | | |
| COC Number | | n/a | | |
| | UNITS | H: VOL QUARTZ 22021321 BT MAY 2 | RDL | QC Batch |
| Particulate Weight on Filter | mg | <5.0 | 5.0 | 8667088 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3D0920
Report Date: 2023/05/24

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## MERCURY BY COLD VAPOUR AA (FILTER)

| Bureau Veritas ID | | VTJ475 | VTJ476 | VTJ477 | VTJ477 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/04/07 | 2023/04/13 | 2023/04/19 | 2023/04/19 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | H: VOL QUARTZ 22120842 BT APR 7 | H: VOL QUARTZ 22111429 BT APR 13 | H: VOL QUARTZ 22120840 BT APR 19 | H: VOL QUARTZ 22120840 BT APR 19 Lab-Dup | RDL | QC Batch |
| **Metals** | | | | | | | |
| Total Mercury (Hg) | ug | <0.02 | <0.02 | <0.02 | <0.02 | 0.02 | 8674642 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

| Bureau Veritas ID | | VTJ478 | VTJ479 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2023/04/26 | 2023/05/02 | | |
| COC Number | | n/a | n/a | | |
| | UNITS | H: VOL QUARTZ 22120841 BT APR 26 | H: VOL QUARTZ 22021321 BT MAY 2 | RDL | QC Batch |
| **Metals** | | | | | |
| Total Mercury (Hg) | ug | <0.02 | <0.02 | 0.02 | 8674642 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3D0920
Report Date: 2023/05/24

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | VTJ475 | VTJ476 | VTJ477 | VTJ478 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/04/07 | 2023/04/13 | 2023/04/19 | 2023/04/26 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | H: VOL QUARTZ 22120842 BT APR 7 | H: VOL QUARTZ 22111429 BT APR 13 | H: VOL QUARTZ 22120840 BT APR 19 | H: VOL QUARTZ 22120841 BT APR 26 | RDL | QC Batch |
| **Metals** | | | | | | | |
| Arsenic (As) | ug | <6.0 | <6.0 | <6.0 | <6.0 | 6.0 | 8669667 |
| Cadmium (Cd) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 8669667 |
| Chromium (Cr) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 8669667 |
| Cobalt (Co) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 8669667 |
| Copper (Cu) | ug | 91.4 | 63.3 | 77.3 | 92.5 | 5.0 | 8669667 |
| Iron (Fe) | ug | 163 | 75 | 139 | 135 | 50 | 8669667 |
| Lead (Pb) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 8669667 |
| Lithium (Li) | ug | <27 | <27 | <27 | <27 | 27 | 8669667 |
| Manganese (Mn) | ug | 4.6 | 2.7 | 3.6 | 4.1 | 1.0 | 8669667 |
| Nickel (Ni) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 8669667 |
| Selenium (Se) | ug | <10 | <10 | <10 | <10 | 10 | 8669667 |
| Sulphur (S) | ug | 524 | 256 | 441 | 590 | 25 | 8669667 |
| Vanadium (V) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 8669667 |
| Zinc (Zn) | ug | 8.3 | <5.0 | 6.2 | 10.4 | 5.0 | 8669667 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | VTJ479 | | |
|---|---|---|---|---|
| Sampling Date | | 2023/05/02 | | |
| COC Number | | n/a | | |
| | UNITS | H: VOL QUARTZ 22021321 BT MAY 2 | RDL | QC Batch |
| **Metals** | | | | |
| Arsenic (As) | ug | <6.0 | 6.0 | 8669667 |
| Cadmium (Cd) | ug | <2.0 | 2.0 | 8669667 |
| Chromium (Cr) | ug | <5.0 | 5.0 | 8669667 |
| Cobalt (Co) | ug | <2.0 | 2.0 | 8669667 |
| Copper (Cu) | ug | 89.0 | 5.0 | 8669667 |
| Iron (Fe) | ug | 89 | 50 | 8669667 |
| Lead (Pb) | ug | <3.0 | 3.0 | 8669667 |
| Lithium (Li) | ug | <27 | 27 | 8669667 |
| Manganese (Mn) | ug | 2.5 | 1.0 | 8669667 |
| Nickel (Ni) | ug | <3.0 | 3.0 | 8669667 |
| Selenium (Se) | ug | <10 | 10 | 8669667 |
| Sulphur (S) | ug | 334 | 25 | 8669667 |
| Vanadium (V) | ug | <5.0 | 5.0 | 8669667 |
| Zinc (Zn) | ug | <5.0 | 5.0 | 8669667 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## TEST SUMMARY

**Bureau Veritas ID:** VTJ475 **Collected:** 2023/04/07
**Sample ID:** H: VOL QUARTZ 22120842 BT APR 7 **Shipped:**
**Matrix:** Filter **Received:** 2023/05/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8674642 | 2023/05/19 | 2023/05/19 | Jaswinder Kaur |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8669667 | 2023/05/17 | 2023/05/19 | Medhat Nasr |
| Particulates on Filter (Method IO-3.1) | BAL | 8667088 | 2023/05/16 | 2023/05/16 | Nancy Dhir |

**Bureau Veritas ID:** VTJ476 **Collected:** 2023/04/13
**Sample ID:** H: VOL QUARTZ 22111429 BT APR 13 **Shipped:**
**Matrix:** Filter **Received:** 2023/05/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8674642 | 2023/05/19 | 2023/05/19 | Jaswinder Kaur |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8669667 | 2023/05/17 | 2023/05/19 | Medhat Nasr |
| Particulates on Filter (Method IO-3.1) | BAL | 8667088 | 2023/05/16 | 2023/05/16 | Nancy Dhir |

**Bureau Veritas ID:** VTJ477 **Collected:** 2023/04/19
**Sample ID:** H: VOL QUARTZ 22120840 BT APR 19 **Shipped:**
**Matrix:** Filter **Received:** 2023/05/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8674642 | 2023/05/19 | 2023/05/19 | Jaswinder Kaur |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8669667 | 2023/05/17 | 2023/05/19 | Medhat Nasr |
| Particulates on Filter (Method IO-3.1) | BAL | 8667088 | 2023/05/16 | 2023/05/16 | Nancy Dhir |

**Bureau Veritas ID:** VTJ477 Dup **Collected:** 2023/04/19
**Sample ID:** H: VOL QUARTZ 22120840 BT APR 19 **Shipped:**
**Matrix:** Filter **Received:** 2023/05/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8674642 | 2023/05/19 | 2023/05/19 | Jaswinder Kaur |

**Bureau Veritas ID:** VTJ478 **Collected:** 2023/04/26
**Sample ID:** H: VOL QUARTZ 22120841 BT APR 26 **Shipped:**
**Matrix:** Filter **Received:** 2023/05/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8674642 | 2023/05/19 | 2023/05/19 | Jaswinder Kaur |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8669667 | 2023/05/17 | 2023/05/19 | Medhat Nasr |
| Particulates on Filter (Method IO-3.1) | BAL | 8667088 | 2023/05/16 | 2023/05/16 | Nancy Dhir |

**Bureau Veritas ID:** VTJ479 **Collected:** 2023/05/02
**Sample ID:** H: VOL QUARTZ 22021321 BT MAY 2 **Shipped:**
**Matrix:** Filter **Received:** 2023/05/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8674642 | 2023/05/19 | 2023/05/19 | Jaswinder Kaur |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8669667 | 2023/05/17 | 2023/05/19 | Medhat Nasr |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3D0920
Report Date: 2023/05/24

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** VTJ479
**Sample ID:** H: VOL QUARTZ 22021321 BT MAY 2
**Matrix:** Filter

**Collected:** 2023/05/02
**Shipped:**
**Received:** 2023/05/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulates on Filter (Method IO-3.1) | BAL | 8667088 | 2023/05/16 | 2023/05/16 | Nancy Dhir |



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## GENERAL COMMENTS

**Results relate only to the items tested.**



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## QUALITY ASSURANCE REPORT



| | | | Matrix Spike | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8669667 | Arsenic (As) | 2023/05/19 | 103 | 75 - 125 | 103 | 85 - 115 | <6.0 | ug | NC (1) | 20 |
| 8669667 | Cadmium (Cd) | 2023/05/19 | 105 | 75 - 125 | 104 | 85 - 115 | <2.0 | ug | NC (1) | 20 |
| 8669667 | Chromium (Cr) | 2023/05/19 | 102 | 75 - 125 | 102 | 85 - 115 | <5.0 | ug | NC (1) | 20 |
| 8669667 | Cobalt (Co) | 2023/05/19 | 101 | 75 - 125 | 102 | 85 - 115 | <2.0 | ug | NC (1) | 20 |
| 8669667 | Copper (Cu) | 2023/05/19 | 98 | 75 - 125 | 102 | 85 - 115 | <5.0 | ug | 18 (1) | 20 |
| 8669667 | Iron (Fe) | 2023/05/19 | 98 | 75 - 125 | 100 | 85 - 115 | <50 | ug | 7.8 (1) | 20 |
| 8669667 | Lead (Pb) | 2023/05/19 | 102 | 75 - 125 | 102 | 85 - 115 | <3.0 | ug | NC (1) | 20 |
| 8669667 | Lithium (Li) | 2023/05/19 | | | | | <27 | ug | | |
| 8669667 | Manganese (Mn) | 2023/05/19 | 100 | 75 - 125 | 102 | 85 - 115 | <1.0 | ug | 13 (1) | 20 |
| 8669667 | Nickel (Ni) | 2023/05/19 | 101 | 75 - 125 | 102 | 85 - 115 | <3.0 | ug | NC (1) | 20 |
| 8669667 | Selenium (Se) | 2023/05/19 | 103 | 75 - 125 | 103 | 85 - 115 | <10 | ug | NC (1) | 20 |
| 8669667 | Sulphur (S) | 2023/05/19 | 101 | 75 - 125 | 101 | 85 - 115 | <25 | ug | 7.7 (1) | 20 |
| 8669667 | Vanadium (V) | 2023/05/19 | 97 | 75 - 125 | 100 | 85 - 115 | <5.0 | ug | NC (1) | 20 |
| 8669667 | Zinc (Zn) | 2023/05/19 | 103 | 75 - 125 | 103 | 85 - 115 | <5.0 | ug | NC (1) | 20 |
| 8674642 | Total Mercury (Hg) | 2023/05/19 | 97 (2) | 80 - 120 | 97 | 90 - 110 | <0.002 | ug | NC (3) | 20 |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Duplicate Parent ID

(2) Matrix Spike Parent ID [VTJ477-01]

(3) Duplicate Parent ID [VTJ477-01]



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

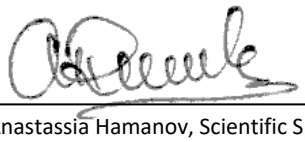
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3D0920
Report Date: 2023/05/24

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

09-May-23 09:05
Gina Baybayan
C3D0920

RPK AIR-RmTmp

CAM FCD-01302 /3

VERITAS www.bvlabs.com

ello Rd
ntario ,L5N 2L8
Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR

Page ____ of ____

**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM + CR

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening (Inner Diameter) | Dust Fall Opening (Outer Diameter) | Silica | PM $_{10}$ & 2.5 | Dustfall | $NO_2$ | $SO_2$ | VOC | TSP | Metals | Mercury | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W2200482 April 29 Tote | 24.03 | 16.7 | April 29 | 00:00 | | | | ✓ | | | | | | | | | | |
| 2204317 April 29 TD | 24.05 | 16.7 | April 29 | 00:00 | | | | ✓ | | | | | | | | | | |
| 2204322 April 26 TD | 24.05 | 16.7 | April 26 | 00:00 | | | | ✓ | | | | | | | | | | |
| 2204303 April 26 Tote | 24.05 | 16.7 | April 26 | 00:00 | | | | ✓ | | | | | | | | | | |
| 2204324 April 23 Tote | 24.05 | 16.7 | April 23 | 00:00 | | | | ✓ | | | | | | | | | | |
| 2204308 April 23 TD | 24.01 | 16.7 | April 23 | 00:00 | | | | ✓ | | | | | | | | | | |
| Hi Vol Quartz 22120842 BT Apr 7 | | | Apr 7 | | | | | | | | | | X | X | X | | | |
| Hi Vol Quartz 22111429 BT Apr 13 | | | Apr 13 | | | | | | | | | | X | X | X | | | |
| Hi Vol Quartz 22120840 BT Apr 19 | | | Apr 19 | | | | | | | | | | X | X | X | | | |
| Hi Vol Quartz 22120841 BT Apr 26 | | | Apr 26 | | | | | | | | | | X | X | X | | | |
| Hi Vol Quartz 22021321 BT May 2 | | | May 2 | | | | | | | | | | X | X | X | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Jade Browne

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com***

Client Signature:
Affiliation: Kinross
Date/Time: May 4, 2023

Received by: M / MUSTAN
Affiliation:
Date/Time: 2023/05/09 0905

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at*

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/05/24**
Report #: R7641277
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3D0920**
**Received: 2023/05/09, 09:05**

Sample Matrix: Filter
# Samples Received: 5

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | 5 | 2023/05/19 | 2023/05/19 | BRL SOP-00104 | EPA 7471B m |
| Total Metals on Hi-Vol Filter (6010Cmod) | 5 | 2023/05/17 | 2023/05/19 | CAM SOP-00408 | EPA 6010D m |
| Particulates on Filter (Method IO-3.1) | 5 | 2023/05/16 | 2023/05/16 | CAM SOP-00942 | Method IO-3.1 |

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

Encryption Key

Cristina (Maria) Bacchus
Project Manager
24 May 2023 14:29:58

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C3D0920
Report Date: 2023/05/24

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | VTJ475 | VTJ476 | VTJ477 | VTJ478 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/04/07 | 2023/04/13 | 2023/04/19 | 2023/04/26 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | H: VOL QUARTZ 22120842 BT APR 7 | H: VOL QUARTZ 22111429 BT APR 13 | H: VOL QUARTZ 22120840 BT APR 19 | H: VOL QUARTZ 22120841 BT APR 26 | RDL | QC Batch |
| Particulate Weight on Filter | mg | 6.7 | <5.0 | 9.5 | 7.7 | 5.0 | 8667088 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

| Bureau Veritas ID | | VTJ479 | | |
|---|---|---|---|---|
| Sampling Date | | 2023/05/02 | | |
| COC Number | | n/a | | |
| | UNITS | H: VOL QUARTZ 22021321 BT MAY 2 | RDL | QC Batch |
| Particulate Weight on Filter | mg | <5.0 | 5.0 | 8667088 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Bureau Veritas Job #: C3D0920
Report Date: 2023/05/24

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## MERCURY BY COLD VAPOUR AA (FILTER)

| Bureau Veritas ID | | VTJ475 | VTJ476 | VTJ477 | VTJ478 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/04/07 | 2023/04/13 | 2023/04/19 | 2023/04/26 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | H: VOL QUARTZ 22120842 BT APR 7 | H: VOL QUARTZ 22111429 BT APR 13 | H: VOL QUARTZ 22120840 BT APR 19 | H: VOL QUARTZ 22120841 BT APR 26 | RDL | QC Batch |
| **Metals** | | | | | | | |
| Total Mercury (Hg) | ug | <0.02 | <0.02 | <0.02 | <0.02 | 0.02 | 8674642 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

| Bureau Veritas ID | | VTJ479 | | |
|---|---|---|---|---|
| Sampling Date | | 2023/05/02 | | |
| COC Number | | n/a | | |
| | UNITS | H: VOL QUARTZ 22021321 BT MAY 2 | RDL | QC Batch |
| **Metals** | | | | |
| Total Mercury (Hg) | ug | <0.02 | 0.02 | 8674642 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Bureau Veritas Job #: C3D0920
Report Date: 2023/05/24

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | VTJ475 | VTJ476 | VTJ477 | VTJ478 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/04/07 | 2023/04/13 | 2023/04/19 | 2023/04/26 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | H: VOL QUARTZ 22120842 BT APR 7 | H: VOL QUARTZ 22111429 BT APR 13 | H: VOL QUARTZ 22120840 BT APR 19 | H: VOL QUARTZ 22120841 BT APR 26 | RDL | QC Batch |
| **Metals** | | | | | | | |
| Arsenic (As) | ug | <6.0 | <6.0 | <6.0 | <6.0 | 6.0 | 8669667 |
| Cadmium (Cd) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 8669667 |
| Chromium (Cr) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 8669667 |
| Cobalt (Co) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 8669667 |
| Copper (Cu) | ug | 91.4 | 63.3 | 77.3 | 92.5 | 5.0 | 8669667 |
| Iron (Fe) | ug | 163 | 75 | 139 | 135 | 50 | 8669667 |
| Lead (Pb) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 8669667 |
| Lithium (Li) | ug | <27 | <27 | <27 | <27 | 27 | 8669667 |
| Manganese (Mn) | ug | 4.6 | 2.7 | 3.6 | 4.1 | 1.0 | 8669667 |
| Nickel (Ni) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 8669667 |
| Selenium (Se) | ug | <10 | <10 | <10 | <10 | 10 | 8669667 |
| Sulphur (S) | ug | 524 | 256 | 441 | 590 | 25 | 8669667 |
| Vanadium (V) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 8669667 |
| Zinc (Zn) | ug | 8.3 | <5.0 | 6.2 | 10.4 | 5.0 | 8669667 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3D0920
Report Date: 2023/05/24

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | VTJ479 | | |
|---|---|---|---|---|
| Sampling Date | | 2023/05/02 | | |
| COC Number | | n/a | | |
| | UNITS | H: VOL QUARTZ 22021321 BT MAY 2 | RDL | QC Batch |
| **Metals** | | | | |
| Arsenic (As) | ug | <6.0 | 6.0 | 8669667 |
| Cadmium (Cd) | ug | <2.0 | 2.0 | 8669667 |
| Chromium (Cr) | ug | <5.0 | 5.0 | 8669667 |
| Cobalt (Co) | ug | <2.0 | 2.0 | 8669667 |
| Copper (Cu) | ug | 89.0 | 5.0 | 8669667 |
| Iron (Fe) | ug | 89 | 50 | 8669667 |
| Lead (Pb) | ug | <3.0 | 3.0 | 8669667 |
| Lithium (Li) | ug | <27 | 27 | 8669667 |
| Manganese (Mn) | ug | 2.5 | 1.0 | 8669667 |
| Nickel (Ni) | ug | <3.0 | 3.0 | 8669667 |
| Selenium (Se) | ug | <10 | 10 | 8669667 |
| Sulphur (S) | ug | 334 | 25 | 8669667 |
| Vanadium (V) | ug | <5.0 | 5.0 | 8669667 |
| Zinc (Zn) | ug | <5.0 | 5.0 | 8669667 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



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Bureau Veritas Job #: C3D0920
Report Date: 2023/05/24

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 8669667 | MEN | Matrix Spike | Arsenic (As) | 2023/05/19 | | 103 | % | 75 - 125 |
| | | | Cadmium (Cd) | 2023/05/19 | | 105 | % | 75 - 125 |
| | | | Chromium (Cr) | 2023/05/19 | | 102 | % | 75 - 125 |
| | | | Cobalt (Co) | 2023/05/19 | | 101 | % | 75 - 125 |
| | | | Copper (Cu) | 2023/05/19 | | 98 | % | 75 - 125 |
| | | | Iron (Fe) | 2023/05/19 | | 98 | % | 75 - 125 |
| | | | Lead (Pb) | 2023/05/19 | | 102 | % | 75 - 125 |
| | | | Manganese (Mn) | 2023/05/19 | | 100 | % | 75 - 125 |
| | | | Nickel (Ni) | 2023/05/19 | | 101 | % | 75 - 125 |
| | | | Selenium (Se) | 2023/05/19 | | 103 | % | 75 - 125 |
| | | | Sulphur (S) | 2023/05/19 | | 101 | % | 75 - 125 |
| | | | Vanadium (V) | 2023/05/19 | | 97 | % | 75 - 125 |
| | | | Zinc (Zn) | 2023/05/19 | | 103 | % | 75 - 125 |
| 8669667 | MEN | RPD | Arsenic (As) | 2023/05/19 | 1.6 | | % | 20 |
| | | | Cadmium (Cd) | 2023/05/19 | 0.85 | | % | 20 |
| | | | Chromium (Cr) | 2023/05/19 | 0.78 | | % | 20 |
| | | | Cobalt (Co) | 2023/05/19 | 0.69 | | % | 20 |
| | | | Copper (Cu) | 2023/05/19 | 1.2 | | % | 20 |
| | | | Iron (Fe) | 2023/05/19 | 1.6 | | % | 20 |
| | | | Lead (Pb) | 2023/05/19 | 0.97 | | % | 20 |
| | | | Manganese (Mn) | 2023/05/19 | 1.8 | | % | 20 |
| | | | Nickel (Ni) | 2023/05/19 | 0.99 | | % | 20 |
| | | | Selenium (Se) | 2023/05/19 | 0.77 | | % | 20 |
| | | | Sulphur (S) | 2023/05/19 | 1.8 | | % | 20 |
| | | | Vanadium (V) | 2023/05/19 | 2.1 | | % | 20 |
| | | | Zinc (Zn) | 2023/05/19 | 0.77 | | % | 20 |
| | | | Arsenic (As) | 2023/05/19 | 2.2 | | % | 20 |
| | | | Cadmium (Cd) | 2023/05/19 | 0.86 | | % | 20 |
| | | | Chromium (Cr) | 2023/05/19 | 1.3 | | % | 20 |
| | | | Cobalt (Co) | 2023/05/19 | 0.59 | | % | 20 |
| | | | Copper (Cu) | 2023/05/19 | 1.7 | | % | 20 |
| | | | Iron (Fe) | 2023/05/19 | 0.60 | | % | 20 |
| | | | Lead (Pb) | 2023/05/19 | 0.98 | | % | 20 |
| | | | Manganese (Mn) | 2023/05/19 | 0.098 | | % | 20 |
| | | | Nickel (Ni) | 2023/05/19 | 0.49 | | % | 20 |
| | | | Selenium (Se) | 2023/05/19 | 0.19 | | % | 20 |
| | | | Sulphur (S) | 2023/05/19 | 2.0 | | % | 20 |
| | | | Vanadium (V) | 2023/05/19 | 0.50 | | % | 20 |
| | | | Zinc (Zn) | 2023/05/19 | 1.2 | | % | 20 |
| | | | Arsenic (As) | 2023/05/19 | NC | | % | 20 |
| | | | Cadmium (Cd) | 2023/05/19 | NC | | % | 20 |
| | | | Chromium (Cr) | 2023/05/19 | NC | | % | 20 |
| | | | Cobalt (Co) | 2023/05/19 | NC | | % | 20 |
| | | | Copper (Cu) | 2023/05/19 | 18 | | % | 20 |
| | | | Iron (Fe) | 2023/05/19 | 7.8 | | % | 20 |
| | | | Lead (Pb) | 2023/05/19 | NC | | % | 20 |
| | | | Manganese (Mn) | 2023/05/19 | 13 | | % | 20 |
| | | | Nickel (Ni) | 2023/05/19 | NC | | % | 20 |
| | | | Selenium (Se) | 2023/05/19 | NC | | % | 20 |
| | | | Sulphur (S) | 2023/05/19 | 7.7 | | % | 20 |
| | | | Vanadium (V) | 2023/05/19 | NC | | % | 20 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Zinc (Zn) | 2023/05/19 | NC | | % | 20 |
| 8669667 | MEN | Spiked Blank | Arsenic (As) | 2023/05/19 | | 103 | % | 85 - 115 |
| | | | Cadmium (Cd) | 2023/05/19 | | 104 | % | 85 - 115 |
| | | | Chromium (Cr) | 2023/05/19 | | 102 | % | 85 - 115 |
| | | | Cobalt (Co) | 2023/05/19 | | 102 | % | 85 - 115 |
| | | | Copper (Cu) | 2023/05/19 | | 102 | % | 85 - 115 |
| | | | Iron (Fe) | 2023/05/19 | | 100 | % | 85 - 115 |
| | | | Lead (Pb) | 2023/05/19 | | 102 | % | 85 - 115 |
| | | | Manganese (Mn) | 2023/05/19 | | 102 | % | 85 - 115 |
| | | | Nickel (Ni) | 2023/05/19 | | 102 | % | 85 - 115 |
| | | | Selenium (Se) | 2023/05/19 | | 103 | % | 85 - 115 |
| | | | Sulphur (S) | 2023/05/19 | | 101 | % | 85 - 115 |
| | | | Vanadium (V) | 2023/05/19 | | 100 | % | 85 - 115 |
| | | | Zinc (Zn) | 2023/05/19 | | 103 | % | 85 - 115 |
| 8669667 | MEN | Method Blank | Arsenic (As) | 2023/05/19 | <6.0 | | ug | |
| | | | Cadmium (Cd) | 2023/05/19 | <2.0 | | ug | |
| | | | Chromium (Cr) | 2023/05/19 | <5.0 | | ug | |
| | | | Cobalt (Co) | 2023/05/19 | <2.0 | | ug | |
| | | | Copper (Cu) | 2023/05/19 | <5.0 | | ug | |
| | | | Iron (Fe) | 2023/05/19 | <50 | | ug | |
| | | | Lead (Pb) | 2023/05/19 | <3.0 | | ug | |
| | | | Lithium (Li) | 2023/05/19 | <27 | | ug | |
| | | | Manganese (Mn) | 2023/05/19 | <1.0 | | ug | |
| | | | Nickel (Ni) | 2023/05/19 | <3.0 | | ug | |
| | | | Selenium (Se) | 2023/05/19 | <10 | | ug | |
| | | | Sulphur (S) | 2023/05/19 | <25 | | ug | |
| | | | Vanadium (V) | 2023/05/19 | <5.0 | | ug | |
| | | | Zinc (Zn) | 2023/05/19 | <5.0 | | ug | |
| 8674642 | JWK | Matrix Spike [VTJ477-01] | Total Mercury (Hg) | 2023/05/19 | | 97 | % | 80 - 120 |
| 8674642 | JWK | RPD [VTJ477-01] | Total Mercury (Hg) | 2023/05/19 | 2.2 | | % | 20 |
| | | | Total Mercury (Hg) | 2023/05/19 | NC | | % | 20 |
| 8674642 | JWK | Spiked Blank | Total Mercury (Hg) | 2023/05/19 | | 97 | % | 90 - 110 |
| 8674642 | JWK | RPD | Total Mercury (Hg) | 2023/05/19 | 3.1 | | % | 20 |
| 8674642 | JWK | Method Blank | Total Mercury (Hg) | 2023/05/19 | <0.002 | | ug | |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



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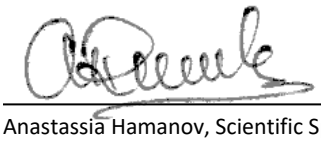
Bureau Veritas Job #: C3D0920
Report Date: 2023/05/24

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/06/23**
Report #: R7685334
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3G3772**
**Received: 2023/06/07, 09:12**

Sample Matrix: Filter
# Samples Received: 5

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | 5 | 2023/06/19 | 2023/06/20 | BRL SOP-00104 | EPA 7471B m |
| Total Metals on Hi-Vol Filter (6010Cmod) | 5 | 2023/06/19 | 2023/06/22 | CAM SOP-00408 | EPA 6010D m |
| Particulates on Filter (Method IO-3.1) | 5 | 2023/06/15 | 2023/06/14 | CAM SOP-00942 | Method IO-3.1 |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCCFP, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/06/23**
Report #: R7685334
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3G3772**
**Received: 2023/06/07, 09:12**

Encryption Key

Cristina (Maria) Bacchus
Project Manager
23 Jun 2023 09:39:13

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Bureau Veritas Job #: C3G3772
Report Date: 2023/06/23

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | WAJ929 | WAJ930 | WAJ931 | WAJ932 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/05/29 | 2023/05/23 | 2023/05/08 | 2023/05/14 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | 23021325 BELL TOWERS MAY 29 TSP | 23021326 BELL TOWERS MAY 23 TSP | 23021322 BELL TOWERS MAY 8 TSP | 23021323 BELL TOWERS MAY 14 TSP | RDL | QC Batch |
| Particulate Weight on Filter | mg | 51.2 | 22.1 | 10.9 | 14.2 | 5.0 | 8727539 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

| Bureau Veritas ID | | WAJ933 | | |
|---|---|---|---|---|
| Sampling Date | | 2023/05/17 | | |
| COC Number | | n/a | | |
| | UNITS | 23021324 BELL TOWERS MAY 17 TSP | RDL | QC Batch |
| Particulate Weight on Filter | mg | 24.7 | 5.0 | 8727539 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Bureau Veritas Job #: C3G3772
Report Date: 2023/06/23

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## MERCURY BY COLD VAPOUR AA (FILTER)

| Bureau Veritas ID | | WAJ929 | WAJ930 | WAJ931 | WAJ931 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/05/29 | 2023/05/23 | 2023/05/08 | 2023/05/08 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | 23021325 BELL TOWERS MAY 29 TSP | 23021326 BELL TOWERS MAY 23 TSP | 23021322 BELL TOWERS MAY 8 TSP | 23021322 BELL TOWERS MAY 8 TSP Lab-Dup | RDL | QC Batch |
| **Metals** | | | | | | | |
| Total Mercury (Hg) | ug | <0.02 | <0.02 | <0.02 | <0.02 | 0.02 | 8736019 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

| Bureau Veritas ID | | WAJ932 | WAJ933 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2023/05/14 | 2023/05/17 | | |
| COC Number | | n/a | n/a | | |
| | UNITS | 23021323 BELL TOWERS MAY 14 TSP | 23021324 BELL TOWERS MAY 17 TSP | RDL | QC Batch |
| **Metals** | | | | | |
| Total Mercury (Hg) | ug | <0.02 | <0.02 | 0.02 | 8736019 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Bureau Veritas Job #: C3G3772
Report Date: 2023/06/23

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | WAJ929 | WAJ930 | WAJ931 | WAJ932 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/05/29 | 2023/05/23 | 2023/05/08 | 2023/05/14 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | 23021325 BELL TOWERS MAY 29 TSP | 23021326 BELL TOWERS MAY 23 TSP | 23021322 BELL TOWERS MAY 8 TSP | 23021323 BELL TOWERS MAY 14 TSP | RDL | QC Batch |
| **Metals** | | | | | | | |
| Arsenic (As) | ug | <6.0 | <6.0 | <6.0 | <6.0 | 6.0 | 8735743 |
| Cadmium (Cd) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 8735743 |
| Chromium (Cr) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 8735743 |
| Cobalt (Co) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 8735743 |
| Copper (Cu) | ug | 78.5 | 80.4 | 127 | 88.3 | 5.0 | 8735743 |
| Iron (Fe) | ug | 661 | 169 | 159 | 137 | 50 | 8735743 |
| Lead (Pb) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 8735743 |
| Lithium (Li) | ug | <27 | <27 | <27 | <27 | 27 | 8735743 |
| Manganese (Mn) | ug | 22.1 | 8.3 | 3.7 | 8.1 | 1.0 | 8735743 |
| Nickel (Ni) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 8735743 |
| Selenium (Se) | ug | <10 | <10 | <10 | <10 | 10 | 8735743 |
| Sulphur (S) | ug | 743 | 480 | 516 | 394 | 25 | 8735743 |
| Vanadium (V) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 8735743 |
| Zinc (Zn) | ug | 19.3 | 11.3 | 7.5 | 7.2 | 5.0 | 8735743 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Bureau Veritas Job #: C3G3772
Report Date: 2023/06/23

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | WAJ933 | | |
|---|---|---|---|---|
| Sampling Date | | 2023/05/17 | | |
| COC Number | | n/a | | |
| | UNITS | 23021324 BELL TOWERS MAY 17 TSP | RDL | QC Batch |
| **Metals** | | | | |
| Arsenic (As) | ug | <6.0 | 6.0 | 8735743 |
| Cadmium (Cd) | ug | <2.0 | 2.0 | 8735743 |
| Chromium (Cr) | ug | <5.0 | 5.0 | 8735743 |
| Cobalt (Co) | ug | <2.0 | 2.0 | 8735743 |
| Copper (Cu) | ug | 90.5 | 5.0 | 8735743 |
| Iron (Fe) | ug | 288 | 50 | 8735743 |
| Lead (Pb) | ug | <3.0 | 3.0 | 8735743 |
| Lithium (Li) | ug | <27 | 27 | 8735743 |
| Manganese (Mn) | ug | 10.0 | 1.0 | 8735743 |
| Nickel (Ni) | ug | <3.0 | 3.0 | 8735743 |
| Selenium (Se) | ug | <10 | 10 | 8735743 |
| Sulphur (S) | ug | 489 | 25 | 8735743 |
| Vanadium (V) | ug | <5.0 | 5.0 | 8735743 |
| Zinc (Zn) | ug | 12.1 | 5.0 | 8735743 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## TEST SUMMARY

**Bureau Veritas ID:** WAJ929 **Collected:** 2023/05/29
**Sample ID:** 23021325 BELL TOWERS MAY 29 TSP **Shipped:**
**Matrix:** Filter **Received:** 2023/06/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8736019 | 2023/06/19 | 2023/06/20 | Jaswinder Kaur |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8735743 | 2023/06/19 | 2023/06/22 | Medhat Nasr |
| Particulates on Filter (Method IO-3.1) | BAL | 8727539 | 2023/06/15 | 2023/06/14 | Andrea Contreras Arenas |

**Bureau Veritas ID:** WAJ930 **Collected:** 2023/05/23
**Sample ID:** 23021326 BELL TOWERS MAY 23 TSP **Shipped:**
**Matrix:** Filter **Received:** 2023/06/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8736019 | 2023/06/19 | 2023/06/20 | Jaswinder Kaur |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8735743 | 2023/06/19 | 2023/06/22 | Medhat Nasr |
| Particulates on Filter (Method IO-3.1) | BAL | 8727539 | 2023/06/15 | 2023/06/14 | Andrea Contreras Arenas |

**Bureau Veritas ID:** WAJ931 **Collected:** 2023/05/08
**Sample ID:** 23021322 BELL TOWERS MAY 8 TSP **Shipped:**
**Matrix:** Filter **Received:** 2023/06/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8736019 | 2023/06/19 | 2023/06/20 | Jaswinder Kaur |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8735743 | 2023/06/19 | 2023/06/22 | Medhat Nasr |
| Particulates on Filter (Method IO-3.1) | BAL | 8727539 | 2023/06/15 | 2023/06/14 | Andrea Contreras Arenas |

**Bureau Veritas ID:** WAJ931 Dup **Collected:** 2023/05/08
**Sample ID:** 23021322 BELL TOWERS MAY 8 TSP **Shipped:**
**Matrix:** Filter **Received:** 2023/06/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8736019 | 2023/06/19 | 2023/06/20 | Jaswinder Kaur |

**Bureau Veritas ID:** WAJ932 **Collected:** 2023/05/14
**Sample ID:** 23021323 BELL TOWERS MAY 14 TSP **Shipped:**
**Matrix:** Filter **Received:** 2023/06/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8736019 | 2023/06/19 | 2023/06/20 | Jaswinder Kaur |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8735743 | 2023/06/19 | 2023/06/22 | Medhat Nasr |
| Particulates on Filter (Method IO-3.1) | BAL | 8727539 | 2023/06/15 | 2023/06/14 | Andrea Contreras Arenas |

**Bureau Veritas ID:** WAJ933 **Collected:** 2023/05/17
**Sample ID:** 23021324 BELL TOWERS MAY 17 TSP **Shipped:**
**Matrix:** Filter **Received:** 2023/06/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8736019 | 2023/06/19 | 2023/06/20 | Jaswinder Kaur |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3G3772
Report Date: 2023/06/23

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** WAJ933
**Sample ID:** 23021324 BELL TOWERS MAY 17 TSP
**Matrix:** Filter

**Collected:** 2023/05/17
**Shipped:**
**Received:** 2023/06/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8735743 | 2023/06/19 | 2023/06/22 | Medhat Nasr |
| Particulates on Filter (Method IO-3.1) | BAL | 8727539 | 2023/06/15 | 2023/06/14 | Andrea Contreras Arenas |



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## GENERAL COMMENTS

**Results relate only to the items tested.**



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## QUALITY ASSURANCE REPORT



| | | | Matrix Spike | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8735743 | Arsenic (As) | 2023/06/22 | 105 | 75 - 125 | 103 | 85 - 115 | <6.0 | ug | NC (1) | 20 |
| 8735743 | Cadmium (Cd) | 2023/06/22 | 105 | 75 - 125 | 104 | 85 - 115 | <2.0 | ug | NC (1) | 20 |
| 8735743 | Chromium (Cr) | 2023/06/22 | 106 | 75 - 125 | 103 | 85 - 115 | <5.0 | ug | NC (1) | 20 |
| 8735743 | Cobalt (Co) | 2023/06/22 | 101 | 75 - 125 | 101 | 85 - 115 | <2.0 | ug | 3.4 (1) | 20 |
| 8735743 | Copper (Cu) | 2023/06/22 | 103 | 75 - 125 | 102 | 85 - 115 | <5.0 | ug | 9.1 (1) | 20 |
| 8735743 | Iron (Fe) | 2023/06/22 | 113 | 75 - 125 | 102 | 85 - 115 | <50 | ug | 13 (1) | 20 |
| 8735743 | Lead (Pb) | 2023/06/22 | 101 | 75 - 125 | 102 | 85 - 115 | <3.0 | ug | 14 (1) | 20 |
| 8735743 | Lithium (Li) | 2023/06/22 | | | | | <27 | ug | | |
| 8735743 | Manganese (Mn) | 2023/06/22 | 104 | 75 - 125 | 103 | 85 - 115 | <1.0 | ug | 12 (1) | 20 |
| 8735743 | Nickel (Ni) | 2023/06/22 | 103 | 75 - 125 | 104 | 85 - 115 | <3.0 | ug | 13 (1) | 20 |
| 8735743 | Selenium (Se) | 2023/06/22 | 103 | 75 - 125 | 107 | 85 - 115 | <10 | ug | NC (1) | 20 |
| 8735743 | Sulphur (S) | 2023/06/22 | 109 | 75 - 125 | 103 | 85 - 115 | <25 | ug | 8.0 (1) | 20 |
| 8735743 | Vanadium (V) | 2023/06/22 | 102 | 75 - 125 | 100 | 85 - 115 | <5.0 | ug | 4.3 (1) | 20 |
| 8735743 | Zinc (Zn) | 2023/06/22 | 98 | 75 - 125 | 98 | 85 - 115 | <5.0 | ug | 15 (1) | 20 |
| 8736019 | Total Mercury (Hg) | 2023/06/20 | 118 (2) | 80 - 120 | 102 | 90 - 110 | <0.002 | ug | NC (4) | 20 |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Duplicate Parent ID

(2) Matrix Spike Parent ID [WAJ931-01]

(3) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

(4) Duplicate Parent ID [WAJ931-01]



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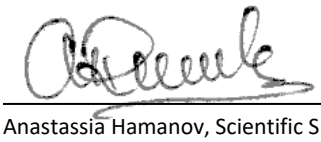
Bureau Veritas Job #: C3G3772
Report Date: 2023/06/23

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

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CAM FCD-01302 /3

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Mississauga Ontario ,L5N 2L8
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Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM + CR

**SECTION**

07-Jun-23 09:12
Gina Baybayan
C3G3772

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Run Time | Dust Fall Opening (Inner Diameter) | Dust Fall Opening (Outer Diameter) | TSP | PM 10 | Dustfall | PM 2.5 | Mercury | Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 22002484 Teardrop PM 10 May 8 | 24.05 | 16.7 | 8-May | | | | | x | | | | |
| 22002485 Teardrop PM 10 May 5 | 24.05 | 16.7 | 5-May | | | | | x | | | | |
| 22002496 Tote PM 2.5 May 5 | 24.05 | 16.7 | 5-May | | | | | | | x | | |
| 1415842 Teardrop PM 10 May 14 | 24.05 | 16.7 | 14-May | | | | | x | | | | |
| 1415844 Teardrop PM 10 May 11 | 24.05 | 16.7 | 11-May | | | | | x | | | | |
| 23021325 Bell Towers May 29 TSP | | | 29-May | 23:47 | | | x | | | | x | x |
| 23021326 Bell Towers May 23 TSP | | | 23-May | 22:82 | | | x | | | | x | x |
| 23021322 Bell Towers May 8 TSP | | | 8-May | 23:89 | | | x | | | | x | x |
| 23021323 Bell Towers May 14 TSP | | | 14-May | 23:10 | | | x | | | | x | x |
| 23021324 Bell Towers May 17 TSP | | | 17-May | 23:15 | | | x | | | | x | x |
| April Tote Dustfall | | | April | | | | | | x | | | |
| April Teardrop Dustfall | | | April | | | | | | x | | | |
| April Bell Towers Dustfall | | | April | | | | | | x | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Jade Browne

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; emily.meek@kinross.com; curtis.bloemberg@kinross.com; aaron.peloquin@kinross.com; airgroup@woodplc.com***

Client Signature:
Affiliation:
Date/Time:

Received by: SATTA BASRA
Affiliation:
Date/Time: 2023/06/07 09:12

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at*

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/07/25**
Report #: R7734481
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3K2186**
**Received: 2023/07/10, 09:00**

Sample Matrix: Filter
# Samples Received: 5

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | 5 | 2023/07/19 | 2023/07/21 | BRL SOP-00104 | EPA 7471B m |
| Total Metals on Hi-Vol Filter (6010Cmod) | 5 | 2023/07/19 | 2023/07/21 | CAM SOP-00408 | EPA 6010D m |
| Particulates on Filter (Method IO-3.1) | 5 | 2023/07/14 | 2023/07/11 | CAM SOP-00942 | Method IO-3.1 |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCCFP, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/07/25**
Report #: R7734481
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3K2186**
**Received: 2023/07/10, 09:00**

Encryption Key

Cristina (Maria) Bacchus
Project Manager
25 Jul 2023 17:45:17

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3K2186
Report Date: 2023/07/25

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | WIJ050 | WIJ051 | WIJ052 | WIJ053 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/06/04 | 2023/06/10 | 2023/06/16 | 2023/06/23 | | |
| | UNITS | JUNE 4 BELL TOWERS TSP 23031534 | JUNE 10 BELL TOWERS TSP 23031535 | JUNE 16 BELL TOWERS TSP 23031536 | JUNE 23 BELL TOWERS TSP 23031537 | RDL | QC Batch |
| Particulate Weight on Filter | mg | 18.5 | 6.4 | 46.9 | 7.7 | 5.0 | 8789884 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

| Bureau Veritas ID | | WIJ054 | | |
|---|---|---|---|---|
| Sampling Date | | 2023/06/29 | | |
| | UNITS | JUNE 29 BELL TOWERS TSP 23031538 | RDL | QC Batch |
| Particulate Weight on Filter | mg | 31.3 | 5.0 | 8789884 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Bureau Veritas Job #: C3K2186
Report Date: 2023/07/25

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## MERCURY BY COLD VAPOUR AA (FILTER)

| Bureau Veritas ID | | WIJ050 | WIJ051 | WIJ051 | WIJ052 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/06/04 | 2023/06/10 | 2023/06/10 | 2023/06/16 | | |
| | UNITS | JUNE 4 BELL TOWERS TSP 23031534 | JUNE 10 BELL TOWERS TSP 23031535 | JUNE 10 BELL TOWERS TSP 23031535 Lab-Dup | JUNE 16 BELL TOWERS TSP 23031536 | RDL | QC Batch |
| **Metals** | | | | | | | |
| Total Mercury (Hg) | ug | <0.02 | <0.02 | <0.02 | <0.02 | 0.02 | 8798030 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

| Bureau Veritas ID | | WIJ053 | WIJ054 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2023/06/23 | 2023/06/29 | | |
| | UNITS | JUNE 23 BELL TOWERS TSP 23031537 | JUNE 29 BELL TOWERS TSP 23031538 | RDL | QC Batch |
| **Metals** | | | | | |
| Total Mercury (Hg) | ug | <0.02 | <0.02 | 0.02 | 8798030 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3K2186
Report Date: 2023/07/25

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | WIJ050 | WIJ051 | WIJ052 | WIJ053 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/06/04 | 2023/06/10 | 2023/06/16 | 2023/06/23 | | |
| | UNITS | JUNE 4 BELL TOWERS TSP 23031534 | JUNE 10 BELL TOWERS TSP 23031535 | JUNE 16 BELL TOWERS TSP 23031536 | JUNE 23 BELL TOWERS TSP 23031537 | RDL | QC Batch |
| **Metals** | | | | | | | |
| Arsenic (As) | ug | <6.0 | <6.0 | <6.0 | <6.0 | 6.0 | 8797913 |
| Cadmium (Cd) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 8797913 |
| Chromium (Cr) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 8797913 |
| Cobalt (Co) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 8797913 |
| Copper (Cu) | ug | 116 | 160 | 178 | 102 | 5.0 | 8797913 |
| Iron (Fe) | ug | 105 | 61 | 201 | 98 | 50 | 8797913 |
| Lead (Pb) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 8797913 |
| Lithium (Li) | ug | <27 | <27 | <27 | <27 | 27 | 8797913 |
| Manganese (Mn) | ug | 4.1 | 3.6 | 29.9 | 4.3 | 1.0 | 8797913 |
| Nickel (Ni) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 8797913 |
| Selenium (Se) | ug | <10 | <10 | <10 | <10 | 10 | 8797913 |
| Sulphur (S) | ug | 751 | 296 | 512 | 336 | 25 | 8797913 |
| Vanadium (V) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 8797913 |
| Zinc (Zn) | ug | 18.9 | 11.5 | 18.0 | 7.3 | 5.0 | 8797913 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Bureau Veritas Job #: C3K2186
Report Date: 2023/07/25

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | WIJ054 | WIJ054 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2023/06/29 | 2023/06/29 | | |
| | UNITS | JUNE 29 BELL TOWERS TSP 23031538 | JUNE 29 BELL TOWERS TSP 23031538 Lab-Dup | RDL | QC Batch |
| **Metals** | | | | | |
| Arsenic (As) | ug | <6.0 | <6.0 | 6.0 | 8797913 |
| Cadmium (Cd) | ug | <2.0 | <2.0 | 2.0 | 8797913 |
| Chromium (Cr) | ug | <5.0 | <5.0 | 5.0 | 8797913 |
| Cobalt (Co) | ug | <2.0 | <2.0 | 2.0 | 8797913 |
| Copper (Cu) | ug | 86.1 | 86.7 | 5.0 | 8797913 |
| Iron (Fe) | ug | 238 | 250 | 50 | 8797913 |
| Lead (Pb) | ug | <3.0 | <3.0 | 3.0 | 8797913 |
| Lithium (Li) | ug | <27 | <27 | 27 | 8797913 |
| Manganese (Mn) | ug | 8.2 | 8.0 | 1.0 | 8797913 |
| Nickel (Ni) | ug | <3.0 | <3.0 | 3.0 | 8797913 |
| Selenium (Se) | ug | <10 | <10 | 10 | 8797913 |
| Sulphur (S) | ug | 698 | 720 | 25 | 8797913 |
| Vanadium (V) | ug | <5.0 | <5.0 | 5.0 | 8797913 |
| Zinc (Zn) | ug | 23.9 | 22.8 | 5.0 | 8797913 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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Bureau Veritas Job #: C3K2186
Report Date: 2023/07/25

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** WIJ050 **Collected:** 2023/06/04
**Sample ID:** JUNE 4 BELL TOWERS TSP 23031534 **Shipped:**
**Matrix:** Filter **Received:** 2023/07/10

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8798030 | 2023/07/19 | 2023/07/21 | Thuy Linh Nguyen |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8797913 | 2023/07/19 | 2023/07/21 | Medhat Nasr |
| Particulates on Filter (Method IO-3.1) | BAL | 8789884 | 2023/07/14 | 2023/07/11 | Andrea Contreras Arenas |

**Bureau Veritas ID:** WIJ051 **Collected:** 2023/06/10
**Sample ID:** JUNE 10 BELL TOWERS TSP 23031535 **Shipped:**
**Matrix:** Filter **Received:** 2023/07/10

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8798030 | 2023/07/19 | 2023/07/21 | Thuy Linh Nguyen |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8797913 | 2023/07/19 | 2023/07/21 | Medhat Nasr |
| Particulates on Filter (Method IO-3.1) | BAL | 8789884 | 2023/07/14 | 2023/07/11 | Andrea Contreras Arenas |

**Bureau Veritas ID:** WIJ051 Dup **Collected:** 2023/06/10
**Sample ID:** JUNE 10 BELL TOWERS TSP 23031535 **Shipped:**
**Matrix:** Filter **Received:** 2023/07/10

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8798030 | 2023/07/19 | 2023/07/21 | Thuy Linh Nguyen |

**Bureau Veritas ID:** WIJ052 **Collected:** 2023/06/16
**Sample ID:** JUNE 16 BELL TOWERS TSP 23031536 **Shipped:**
**Matrix:** Filter **Received:** 2023/07/10

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8798030 | 2023/07/19 | 2023/07/21 | Thuy Linh Nguyen |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8797913 | 2023/07/19 | 2023/07/21 | Medhat Nasr |
| Particulates on Filter (Method IO-3.1) | BAL | 8789884 | 2023/07/14 | 2023/07/11 | Andrea Contreras Arenas |

**Bureau Veritas ID:** WIJ053 **Collected:** 2023/06/23
**Sample ID:** JUNE 23 BELL TOWERS TSP 23031537 **Shipped:**
**Matrix:** Filter **Received:** 2023/07/10

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8798030 | 2023/07/19 | 2023/07/21 | Thuy Linh Nguyen |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8797913 | 2023/07/19 | 2023/07/21 | Medhat Nasr |
| Particulates on Filter (Method IO-3.1) | BAL | 8789884 | 2023/07/14 | 2023/07/11 | Andrea Contreras Arenas |

**Bureau Veritas ID:** WIJ054 **Collected:** 2023/06/29
**Sample ID:** JUNE 29 BELL TOWERS TSP 23031538 **Shipped:**
**Matrix:** Filter **Received:** 2023/07/10

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8798030 | 2023/07/19 | 2023/07/21 | Thuy Linh Nguyen |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3K2186
Report Date: 2023/07/25

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** WIJ054
**Sample ID:** JUNE 29 BELL TOWERS TSP 23031538
**Matrix:** Filter

**Collected:** 2023/06/29
**Shipped:**
**Received:** 2023/07/10

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8797913 | 2023/07/19 | 2023/07/21 | Medhat Nasr |
| Particulates on Filter (Method IO-3.1) | BAL | 8789884 | 2023/07/14 | 2023/07/11 | Andrea Contreras Arenas |

**Bureau Veritas ID:** WIJ054 Dup
**Sample ID:** JUNE 29 BELL TOWERS TSP 23031538
**Matrix:** Filter

**Collected:** 2023/06/29
**Shipped:**
**Received:** 2023/07/10

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8797913 | 2023/07/19 | 2023/07/21 | Medhat Nasr |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT



| | | | Matrix Spike | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8797913 | Arsenic (As) | 2023/07/21 | 101 (1) | 75 - 125 | 99 | 85 - 115 | <6.0 | ug | NC (3) | 20 |
| 8797913 | Cadmium (Cd) | 2023/07/21 | 104 (1) | 75 - 125 | 101 | 85 - 115 | <2.0 | ug | NC (3) | 20 |
| 8797913 | Chromium (Cr) | 2023/07/21 | 105 (1) | 75 - 125 | 99 | 85 - 115 | <5.0 | ug | NC (3) | 20 |
| 8797913 | Cobalt (Co) | 2023/07/21 | 99 (1) | 75 - 125 | 97 | 85 - 115 | <2.0 | ug | NC (3) | 20 |
| 8797913 | Copper (Cu) | 2023/07/21 | 103 (1) | 75 - 125 | 100 | 85 - 115 | <5.0 | ug | 0.68 (3) | 20 |
| 8797913 | Iron (Fe) | 2023/07/21 | 102 (1) | 75 - 125 | 101 | 85 - 115 | <50 | ug | 4.7 (3) | 20 |
| 8797913 | Lead (Pb) | 2023/07/21 | 98 (1) | 75 - 125 | 97 | 85 - 115 | <3.0 | ug | NC (3) | 20 |
| 8797913 | Lithium (Li) | 2023/07/21 | | | | | <27 | ug | NC (3) | 20 |
| 8797913 | Manganese (Mn) | 2023/07/21 | 100 (1) | 75 - 125 | 100 | 85 - 115 | <1.0 | ug | 2.8 (3) | 20 |
| 8797913 | Nickel (Ni) | 2023/07/21 | 103 (1) | 75 - 125 | 101 | 85 - 115 | <3.0 | ug | NC (3) | 20 |
| 8797913 | Selenium (Se) | 2023/07/21 | 106 (1) | 75 - 125 | 106 | 85 - 115 | <10 | ug | NC (3) | 20 |
| 8797913 | Sulphur (S) | 2023/07/21 | 103 (1) | 75 - 125 | 104 | 85 - 115 | <25 | ug | 3.1 (3) | 20 |
| 8797913 | Vanadium (V) | 2023/07/21 | 95 (1) | 75 - 125 | 96 | 85 - 115 | <5.0 | ug | NC (3) | 20 |
| 8797913 | Zinc (Zn) | 2023/07/21 | 95 (1) | 75 - 125 | 96 | 85 - 115 | <5.0 | ug | 4.8 (3) | 20 |
| 8798030 | Total Mercury (Hg) | 2023/07/21 | 104 (4) | 80 - 120 | 105 | 90 - 110 | <0.002 | ug | NC (5) | 20 |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Matrix Spike Parent ID [WIJ054-01]

(2) Duplicate Parent ID

(3) Duplicate Parent ID [WIJ054-01]

(4) Matrix Spike Parent ID [WIJ051-01]

(5) Duplicate Parent ID [WIJ051-01]



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Bureau Veritas Job #: C3K2186
Report Date: 2023/07/25

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

10-Jul-23 09:00

Gina Baybayan

C3K2186

AJH AIR-RmTmp

CAM FCD-01302 /3

...llo Rd
...ntario ,L5N 2L8
...om

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM + CB + EM

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening (Inner Diameter) | Dust Fall Opening (Outer Diameter) | Silica | PM 10 | PM 2.5 | Dustfall | TSP | Metals | Mercury | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| June Bell Towers Dustfall | | | June 1 - July 1 | | 5.5" | 6.5" | | | | X | | | | | | | |
| June Tote Road Dustfall | | | June 1 - July 1 | | 5.5" | 6.5" | | | | X | | | | | | | |
| June Teardrop Dustfall | | | June 1 - July 1 | | 5.5" | 6.5" | | | | X | | | | | | | |
| June 4 Bell Towers TSP 23031534 | | 40 CFM | | 0:00 | | | | | | | X | X | X | | | | |
| June 10 Bell Towers TSP 23031535 | | 40 CFM | | 0:00 | | | | | | | X | X | X | | | | |
| June 16 Bell Towers TSP 23031536 | | 40 CFM | | 0:00 | | | | | | | X | X | X | | | | |
| June 23 Bell Towers TSP 23031537 | | 40 CFM | | 0:00 | | | | | | | X | X | X | | | | |
| June 29 Bell Towers TSP 23031538 | | 40 CFM | | 0:00 | | | | | | | X | X | X | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2003.2023D.100
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Jade Browne

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com; emily.meek@kinross.com; aaron.peloquin@kinross.com; curtis.bloemberg@kinross.com***

Client Signature: [signature]
Affiliation: Kinross
Date/Time: July 4 7:00

Received by: [signature]
Affiliation:
Date/Time: 23/07/10 09:00

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions*

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/08/24**
Report #: R7779274
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3N7103**
**Received: 2023/08/08, 09:11**

Sample Matrix: Filter
# Samples Received: 5

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | 5 | 2023/08/21 | 2023/08/23 | BRL SOP-00104 | EPA 7471B m |
| Total Metals on Hi-Vol Filter (6010Cmod) | 5 | 2023/08/17 | 2023/08/21 | CAM SOP-00408 | EPA 6010D m |
| Particulates on Filter (Method IO-3.1) | 5 | 2023/08/15 | 2023/08/15 | CAM SOP-00942 | Method IO-3.1 |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCCFP, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/08/24**
Report #: R7779274
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3N7103**
**Received: 2023/08/08, 09:11**

Encryption Key

Cristina (Maria) Bacchus
Project Manager
24 Aug 2023 09:19:46

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3N7103
Report Date: 2023/08/24

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | WPS850 | WPS851 | WPS852 | WPS853 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/07/05 | 2023/07/11 | 2023/07/17 | 2023/07/23 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | JULY 5 TSP 23061216 BELL TOWERS | JULY 11 TSP 23061217 BELL TOWERS | JULY 17 TSP 23061218 BELL TOWERS | JULY 23 TSP 23061219 BELL TOWERS | RDL | QC Batch |
| Particulate Weight on Filter | mg | <5.0 | 12.0 | 9.7 | 7.7 | 5.0 | 8854333 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

| Bureau Veritas ID | | WPS854 | | |
|---|---|---|---|---|
| Sampling Date | | 2023/07/29 | | |
| COC Number | | n/a | | |
| | UNITS | JULY 29 TSP 23061221 BELL TOWERS | RDL | QC Batch |
| Particulate Weight on Filter | mg | 8.5 | 5.0 | 8854333 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3N7103
Report Date: 2023/08/24

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## MERCURY BY COLD VAPOUR AA (FILTER)

| Bureau Veritas ID | | WPS850 | WPS851 | WPS852 | WPS852 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/07/05 | 2023/07/11 | 2023/07/17 | 2023/07/17 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | JULY 5 TSP 23061216 BELL TOWERS | JULY 11 TSP 23061217 BELL TOWERS | JULY 17 TSP 23061218 BELL TOWERS | JULY 17 TSP 23061218 BELL TOWERS Lab-Dup | RDL | QC Batch |
| **Metals** | | | | | | | |
| Total Mercury (Hg) | ug | <0.02 | <0.02 | <0.02 | <0.02 | 0.02 | 8865763 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

| Bureau Veritas ID | | WPS853 | WPS854 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2023/07/23 | 2023/07/29 | | |
| COC Number | | n/a | n/a | | |
| | UNITS | JULY 23 TSP 23061219 BELL TOWERS | JULY 29 TSP 23061221 BELL TOWERS | RDL | QC Batch |
| **Metals** | | | | | |
| Total Mercury (Hg) | ug | <0.02 | <0.02 | 0.02 | 8865763 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3N7103
Report Date: 2023/08/24

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | WPS850 | WPS851 | WPS852 | WPS853 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/07/05 | 2023/07/11 | 2023/07/17 | 2023/07/23 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | JULY 5 TSP 23061216 BELL TOWERS | JULY 11 TSP 23061217 BELL TOWERS | JULY 17 TSP 23061218 BELL TOWERS | JULY 23 TSP 23061219 BELL TOWERS | RDL | QC Batch |
| **Metals** | | | | | | | |
| Arsenic (As) | ug | <6.0 | <6.0 | <6.0 | <6.0 | 6.0 | 8858837 |
| Cadmium (Cd) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 8858837 |
| Chromium (Cr) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 8858837 |
| Cobalt (Co) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 8858837 |
| Copper (Cu) | ug | 127 | 101 | 89.6 | 76.9 | 5.0 | 8858837 |
| Iron (Fe) | ug | 69 | <50 | <50 | <50 | 50 | 8858837 |
| Lead (Pb) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 8858837 |
| Lithium (Li) | ug | <27 | <27 | <27 | <27 | 27 | 8858837 |
| Manganese (Mn) | ug | 1.9 | 1.6 | 2.3 | 1.4 | 1.0 | 8858837 |
| Nickel (Ni) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 8858837 |
| Selenium (Se) | ug | <10 | <10 | <10 | <10 | 10 | 8858837 |
| Sulphur (S) | ug | 216 | 262 | 174 | 185 | 25 | 8858837 |
| Vanadium (V) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 8858837 |
| Zinc (Zn) | ug | 7.1 | 5.4 | 6.0 | 5.6 | 5.0 | 8858837 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3N7103
Report Date: 2023/08/24

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | WPS854 | | |
|---|---|---|---|---|
| Sampling Date | | 2023/07/29 | | |
| COC Number | | n/a | | |
| | UNITS | JULY 29 TSP 23061221 BELL TOWERS | RDL | QC Batch |
| **Metals** | | | | |
| Arsenic (As) | ug | <6.0 | 6.0 | 8858837 |
| Cadmium (Cd) | ug | <2.0 | 2.0 | 8858837 |
| Chromium (Cr) | ug | <5.0 | 5.0 | 8858837 |
| Cobalt (Co) | ug | <2.0 | 2.0 | 8858837 |
| Copper (Cu) | ug | 120 | 5.0 | 8858837 |
| Iron (Fe) | ug | <50 | 50 | 8858837 |
| Lead (Pb) | ug | <3.0 | 3.0 | 8858837 |
| Lithium (Li) | ug | <27 | 27 | 8858837 |
| Manganese (Mn) | ug | 1.4 | 1.0 | 8858837 |
| Nickel (Ni) | ug | <3.0 | 3.0 | 8858837 |
| Selenium (Se) | ug | <10 | 10 | 8858837 |
| Sulphur (S) | ug | 234 | 25 | 8858837 |
| Vanadium (V) | ug | <5.0 | 5.0 | 8858837 |
| Zinc (Zn) | ug | 7.7 | 5.0 | 8858837 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** WPS850 **Collected:** 2023/07/05
**Sample ID:** JULY 5 TSP 23061216 BELL TOWERS **Shipped:**
**Matrix:** Filter **Received:** 2023/08/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8865763 | 2023/08/21 | 2023/08/23 | Japneet Gill |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8858837 | 2023/08/17 | 2023/08/21 | Jolly John |
| Particulates on Filter (Method IO-3.1) | BAL | 8854333 | 2023/08/15 | 2023/08/15 | Andrea Contreras Arenas |

**Bureau Veritas ID:** WPS851 **Collected:** 2023/07/11
**Sample ID:** JULY 11 TSP 23061217 BELL TOWERS **Shipped:**
**Matrix:** Filter **Received:** 2023/08/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8865763 | 2023/08/21 | 2023/08/23 | Japneet Gill |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8858837 | 2023/08/17 | 2023/08/21 | Jolly John |
| Particulates on Filter (Method IO-3.1) | BAL | 8854333 | 2023/08/15 | 2023/08/15 | Andrea Contreras Arenas |

**Bureau Veritas ID:** WPS852 **Collected:** 2023/07/17
**Sample ID:** JULY 17 TSP 23061218 BELL TOWERS **Shipped:**
**Matrix:** Filter **Received:** 2023/08/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8865763 | 2023/08/21 | 2023/08/23 | Japneet Gill |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8858837 | 2023/08/17 | 2023/08/21 | Jolly John |
| Particulates on Filter (Method IO-3.1) | BAL | 8854333 | 2023/08/15 | 2023/08/15 | Andrea Contreras Arenas |

**Bureau Veritas ID:** WPS852 Dup **Collected:** 2023/07/17
**Sample ID:** JULY 17 TSP 23061218 BELL TOWERS **Shipped:**
**Matrix:** Filter **Received:** 2023/08/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8865763 | 2023/08/21 | 2023/08/23 | Japneet Gill |

**Bureau Veritas ID:** WPS853 **Collected:** 2023/07/23
**Sample ID:** JULY 23 TSP 23061219 BELL TOWERS **Shipped:**
**Matrix:** Filter **Received:** 2023/08/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8865763 | 2023/08/21 | 2023/08/23 | Japneet Gill |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8858837 | 2023/08/17 | 2023/08/21 | Jolly John |
| Particulates on Filter (Method IO-3.1) | BAL | 8854333 | 2023/08/15 | 2023/08/15 | Andrea Contreras Arenas |

**Bureau Veritas ID:** WPS854 **Collected:** 2023/07/29
**Sample ID:** JULY 29 TSP 23061221 BELL TOWERS **Shipped:**
**Matrix:** Filter **Received:** 2023/08/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8865763 | 2023/08/21 | 2023/08/23 | Japneet Gill |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3N7103
Report Date: 2023/08/24

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** WPS854
**Sample ID:** JULY 29 TSP 23061221 BELL TOWERS
**Matrix:** Filter

**Collected:** 2023/07/29
**Shipped:**
**Received:** 2023/08/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8858837 | 2023/08/17 | 2023/08/21 | Jolly John |
| Particulates on Filter (Method IO-3.1) | BAL | 8854333 | 2023/08/15 | 2023/08/15 | Andrea Contreras Arenas |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT



| | | | Matrix Spike | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8858837 | Arsenic (As) | 2023/08/21 | 95 | 75 - 125 | 96 | 85 - 115 | <6.0 | ug | 1.1 (1) | 20 |
| 8858837 | Cadmium (Cd) | 2023/08/21 | 96 | 75 - 125 | 97 | 85 - 115 | <2.0 | ug | 1.2 (1) | 20 |
| 8858837 | Chromium (Cr) | 2023/08/21 | 96 | 75 - 125 | 97 | 85 - 115 | <5.0 | ug | 1.0 (1) | 20 |
| 8858837 | Cobalt (Co) | 2023/08/21 | 94 | 75 - 125 | 95 | 85 - 115 | <2.0 | ug | 1.1 (1) | 20 |
| 8858837 | Copper (Cu) | 2023/08/21 | 110 | 75 - 125 | 101 | 85 - 115 | <5.0 | ug | 1.8 (1) | 20 |
| 8858837 | Iron (Fe) | 2023/08/21 | 102 | 75 - 125 | 98 | 85 - 115 | <50 | ug | 0.72 (1) | 20 |
| 8858837 | Lead (Pb) | 2023/08/21 | 93 | 75 - 125 | 94 | 85 - 115 | <3.0 | ug | 1.1 (1) | 20 |
| 8858837 | Lithium (Li) | 2023/08/21 | | | | | <27 | ug | | |
| 8858837 | Manganese (Mn) | 2023/08/21 | 100 | 75 - 125 | 100 | 85 - 115 | <1.0 | ug | 1.2 (1) | 20 |
| 8858837 | Nickel (Ni) | 2023/08/21 | 95 | 75 - 125 | 97 | 85 - 115 | <3.0 | ug | 1.2 (1) | 20 |
| 8858837 | Selenium (Se) | 2023/08/21 | 97 | 75 - 125 | 98 | 85 - 115 | <10 | ug | 0.72 (1) | 20 |
| 8858837 | Sulphur (S) | 2023/08/21 | 102 | 75 - 125 | 100 | 85 - 115 | <25 | ug | 2.1 (1) | 20 |
| 8858837 | Vanadium (V) | 2023/08/21 | 95 | 75 - 125 | 96 | 85 - 115 | <5.0 | ug | 0.52 (1) | 20 |
| 8858837 | Zinc (Zn) | 2023/08/21 | 95 | 75 - 125 | 97 | 85 - 115 | <5.0 | ug | 1.1 (1) | 20 |
| 8865763 | Total Mercury (Hg) | 2023/08/23 | 98 (2) | 80 - 120 | 100 | 90 - 110 | <0.002 | ug | NC (3) | 20 |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Duplicate Parent ID

(2) Matrix Spike Parent ID [WPS852-01]

(3) Duplicate Parent ID [WPS852-01]



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3N7103
Report Date: 2023/08/24

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

CAM FCD-01302 /3

BUREAU VERITAS

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Mississauga Ontario ,L5N 2L8
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:

**SECTION**

Sampled by: JM + CB + EM

**ANALYSIS REQUESTED**

08-Aug-23 09:11
Lori Dufour
C3N7103
AN4 AIR-RmTmp

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening (Inner Diameter) | Dust Fall Opening (Outer Diameter) | Silica | PM 10 | PM 2.5 | Dustfall | TSP | Metals | Mercury | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| July Bell Towers Dustfall | | | Jul 1 - Aug 1 | | 5.5" | 6.5" | | | | X | | | | | | | |
| July Teardrop Dustfall | | | Jul 1 - Aug 1 | | 5.5" | 6.5" | | | | X | | | | | | | |
| July Tote Road Dustfall | | | Jul 1 - Aug 1 | | 5.5" | 6.5" | | | | X | | | | | | | |
| July 5 TSP 23061216 Bell Towers | | 46 | 5-Jul | | | | | | | | X | X | X | | | | |
| July 11 TSP 23061217 Bell Towers | | 50 | 11-Jul | | | | | | | | X | X | X | | | | |
| July 17 TSP 23061218 Bell Towers | | 50 | 17-Jul | | | | | | | | X | X | X | | | | |
| July 23 TSP 23061219 Bell Towers | | 66 | 23-Jul | | | | | | | | X | X | X | | | | |
| July 29 TSP 23061221 Bell Towers | | 42 | 29-Jul | | | | | | | | X | X | X | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2003.2023D.100
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Jade Browne

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com; emily.meek@kinross.com; aaron.peloquin@kinross.com; curtis.bloemberg@kinross.com***

Client Signature:
Affiliation: Kinross
Date/Time: Aug 2 2023

Received by: SAMIRA BASIRA
Affiliation:
Date/Time: 2023/08/08 09:11

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions*

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/09/22**
Report #: R7826363
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3R5526**
**Received: 2023/09/08, 09:04**

Sample Matrix: Filter
# Samples Received: 5

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | 5 | 2023/09/21 | 2023/09/22 | BRL SOP-00104 | EPA 7471B m |
| Total Metals on Hi-Vol Filter (6010Cmod) | 5 | 2023/09/14 | 2023/09/15 | CAM SOP-00408 | EPA 6010D m |
| Particulates on Filter (Method IO-3.1) | 5 | 2023/09/13 | 2023/09/13 | CAM SOP-00942 | Method IO-3.1 |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCCFP, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/09/22**
Report #: R7826363
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3R5526**
**Received: 2023/09/08, 09:04**

Encryption Key

Cristina (Maria) Bacchus
Project Manager
22 Sep 2023 16:57:47

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3R5526
Report Date: 2023/09/22

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | WXX478 | WXX479 | WXX480 | WXX481 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/08/05 | 2023/08/10 | 2023/08/17 | 2023/08/22 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | AUGUST 4 TSP 23061220 BELL TOWERS | AUGUST 10 TSP 23051261 BELL TOWERS | AUGUST 16 TSP 23051262 BELL TOWERS | AUGUST 22 TSP 23051263 BELL TOWERS | RDL | QC Batch |
| Particulate Weight on Filter | mg | 34.9 | 19.1 | 59.6 | 36.3 | 5.0 | 8913915 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

| Bureau Veritas ID | | WXX482 | | |
|---|---|---|---|---|
| Sampling Date | | 2023/08/28 | | |
| COC Number | | n/a | | |
| | UNITS | AUGUST 28 TSP 23051264 BELL TOWERS | RDL | QC Batch |
| Particulate Weight on Filter | mg | 25.3 | 5.0 | 8913915 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3R5526
Report Date: 2023/09/22

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## MERCURY BY COLD VAPOUR AA (FILTER)

| Bureau Veritas ID | | WXX478 | WXX479 | WXX480 | WXX480 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/08/05 | 2023/08/10 | 2023/08/17 | 2023/08/17 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | AUGUST 4 TSP 23061220 BELL TOWERS | AUGUST 10 TSP 23051261 BELL TOWERS | AUGUST 16 TSP 23051262 BELL TOWERS | AUGUST 16 TSP 23051262 BELL TOWERS Lab-Dup | RDL | QC Batch |
| **Metals** | | | | | | | |
| Total Mercury (Hg) | ug | <0.02 | <0.02 | <0.02 | <0.02 | 0.02 | 8932135 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

| Bureau Veritas ID | | WXX481 | WXX482 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2023/08/22 | 2023/08/28 | | |
| COC Number | | n/a | n/a | | |
| | UNITS | AUGUST 22 TSP 23051263 BELL TOWERS | AUGUST 28 TSP 23051264 BELL TOWERS | RDL | QC Batch |
| **Metals** | | | | | |
| Total Mercury (Hg) | ug | <0.02 | <0.02 | 0.02 | 8932135 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3R5526
Report Date: 2023/09/22

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | WXX478 | WXX479 | WXX480 | WXX481 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/08/05 | 2023/08/10 | 2023/08/17 | 2023/08/22 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | AUGUST 4 TSP 23061220 BELL TOWERS | AUGUST 10 TSP 23051261 BELL TOWERS | AUGUST 16 TSP 23051262 BELL TOWERS | AUGUST 22 TSP 23051263 BELL TOWERS | RDL | QC Batch |
| **Metals** | | | | | | | |
| Arsenic (As) | ug | <6.0 | <6.0 | <6.0 | <6.0 | 6.0 | 8917105 |
| Cadmium (Cd) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 8917105 |
| Chromium (Cr) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 8917105 |
| Cobalt (Co) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 8917105 |
| Copper (Cu) | ug | 86.9 | 93.3 | 82.8 | 128 | 5.0 | 8917105 |
| Iron (Fe) | ug | 105 | 84 | <50 | 124 | 50 | 8917105 |
| Lead (Pb) | ug | 6.3 | <3.0 | <3.0 | <3.0 | 3.0 | 8917105 |
| Lithium (Li) | ug | <27 | <27 | <27 | <27 | 27 | 8917105 |
| Manganese (Mn) | ug | 7.7 | 1.6 | 3.0 | 6.3 | 1.0 | 8917105 |
| Nickel (Ni) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 8917105 |
| Selenium (Se) | ug | <10 | <10 | <10 | <10 | 10 | 8917105 |
| Sulphur (S) | ug | 594 | 269 | 542 | 479 | 25 | 8917105 |
| Vanadium (V) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 8917105 |
| Zinc (Zn) | ug | 11.6 | 7.0 | 18.1 | 9.5 | 5.0 | 8917105 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3R5526
Report Date: 2023/09/22

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | WXX482 | | |
|---|---|---|---|---|
| Sampling Date | | 2023/08/28 | | |
| COC Number | | n/a | | |
| | UNITS | AUGUST 28 TSP 23051264 BELL TOWERS | RDL | QC Batch |
| **Metals** | | | | |
| Arsenic (As) | ug | <6.0 | 6.0 | 8917105 |
| Cadmium (Cd) | ug | <2.0 | 2.0 | 8917105 |
| Chromium (Cr) | ug | <5.0 | 5.0 | 8917105 |
| Cobalt (Co) | ug | <2.0 | 2.0 | 8917105 |
| Copper (Cu) | ug | 90.2 | 5.0 | 8917105 |
| Iron (Fe) | ug | <50 | 50 | 8917105 |
| Lead (Pb) | ug | <3.0 | 3.0 | 8917105 |
| Lithium (Li) | ug | <27 | 27 | 8917105 |
| Manganese (Mn) | ug | 2.6 | 1.0 | 8917105 |
| Nickel (Ni) | ug | <3.0 | 3.0 | 8917105 |
| Selenium (Se) | ug | <10 | 10 | 8917105 |
| Sulphur (S) | ug | 259 | 25 | 8917105 |
| Vanadium (V) | ug | <5.0 | 5.0 | 8917105 |
| Zinc (Zn) | ug | 12.6 | 5.0 | 8917105 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## TEST SUMMARY

**Bureau Veritas ID:** WXX478 **Collected:** 2023/08/05
**Sample ID:** AUGUST 4 TSP 23061220 BELL TOWERS **Shipped:**
**Matrix:** Filter **Received:** 2023/09/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8932135 | 2023/09/21 | 2023/09/22 | Japneet Gill |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8917105 | 2023/09/14 | 2023/09/15 | Medhat Nasr |
| Particulates on Filter (Method IO-3.1) | BAL | 8913915 | 2023/09/13 | 2023/09/13 | Andrea Contreras Arenas |

**Bureau Veritas ID:** WXX479 **Collected:** 2023/08/10
**Sample ID:** AUGUST 10 TSP 23051261 BELL TOWERS **Shipped:**
**Matrix:** Filter **Received:** 2023/09/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8932135 | 2023/09/21 | 2023/09/22 | Japneet Gill |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8917105 | 2023/09/14 | 2023/09/15 | Medhat Nasr |
| Particulates on Filter (Method IO-3.1) | BAL | 8913915 | 2023/09/13 | 2023/09/13 | Andrea Contreras Arenas |

**Bureau Veritas ID:** WXX480 **Collected:** 2023/08/17
**Sample ID:** AUGUST 16 TSP 23051262 BELL TOWERS **Shipped:**
**Matrix:** Filter **Received:** 2023/09/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8932135 | 2023/09/21 | 2023/09/22 | Japneet Gill |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8917105 | 2023/09/14 | 2023/09/15 | Medhat Nasr |
| Particulates on Filter (Method IO-3.1) | BAL | 8913915 | 2023/09/13 | 2023/09/13 | Andrea Contreras Arenas |

**Bureau Veritas ID:** WXX480 Dup **Collected:** 2023/08/17
**Sample ID:** AUGUST 16 TSP 23051262 BELL TOWERS **Shipped:**
**Matrix:** Filter **Received:** 2023/09/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8932135 | 2023/09/21 | 2023/09/22 | Japneet Gill |

**Bureau Veritas ID:** WXX481 **Collected:** 2023/08/22
**Sample ID:** AUGUST 22 TSP 23051263 BELL TOWERS **Shipped:**
**Matrix:** Filter **Received:** 2023/09/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8932135 | 2023/09/21 | 2023/09/22 | Japneet Gill |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8917105 | 2023/09/14 | 2023/09/15 | Medhat Nasr |
| Particulates on Filter (Method IO-3.1) | BAL | 8913915 | 2023/09/13 | 2023/09/13 | Andrea Contreras Arenas |

**Bureau Veritas ID:** WXX482 **Collected:** 2023/08/28
**Sample ID:** AUGUST 28 TSP 23051264 BELL TOWERS **Shipped:**
**Matrix:** Filter **Received:** 2023/09/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8932135 | 2023/09/21 | 2023/09/22 | Japneet Gill |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3R5526
Report Date: 2023/09/22

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** WXX482
**Sample ID:** AUGUST 28 TSP 23051264 BELL TOWERS
**Matrix:** Filter

**Collected:** 2023/08/28
**Shipped:**
**Received:** 2023/09/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8917105 | 2023/09/14 | 2023/09/15 | Medhat Nasr |
| Particulates on Filter (Method IO-3.1) | BAL | 8913915 | 2023/09/13 | 2023/09/13 | Andrea Contreras Arenas |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

| | |
|---|---|
| Package 1 | 22.0°C |

**Results relate only to the items tested.**



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## QUALITY ASSURANCE REPORT



| | | | Matrix Spike | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8917105 | Arsenic (As) | 2023/09/15 | 100 | 75 - 125 | 102 | 85 - 115 | <6.0 | ug | 0.20 (1) | 20 |
| 8917105 | Cadmium (Cd) | 2023/09/15 | 104 | 75 - 125 | 103 | 85 - 115 | <2.0 | ug | 0.78 (1) | 20 |
| 8917105 | Chromium (Cr) | 2023/09/15 | 109 | 75 - 125 | 106 | 85 - 115 | <5.0 | ug | 0.95 (1) | 20 |
| 8917105 | Cobalt (Co) | 2023/09/15 | 98 | 75 - 125 | 99 | 85 - 115 | <2.0 | ug | 0.92 (1) | 20 |
| 8917105 | Copper (Cu) | 2023/09/15 | 100 | 75 - 125 | 104 | 85 - 115 | <5.0 | ug | 1.4 (1) | 20 |
| 8917105 | Iron (Fe) | 2023/09/15 | 102 | 75 - 125 | 101 | 85 - 115 | <50 | ug | 0.69 (1) | 20 |
| 8917105 | Lead (Pb) | 2023/09/15 | 99 | 75 - 125 | 98 | 85 - 115 | <3.0 | ug | 1.5 (1) | 20 |
| 8917105 | Lithium (Li) | 2023/09/15 | | | | | <27 | ug | | |
| 8917105 | Manganese (Mn) | 2023/09/15 | 99 | 75 - 125 | 100 | 85 - 115 | <1.0 | ug | 1.0 (1) | 20 |
| 8917105 | Nickel (Ni) | 2023/09/15 | 101 | 75 - 125 | 100 | 85 - 115 | <3.0 | ug | 0.20 (1) | 20 |
| 8917105 | Selenium (Se) | 2023/09/15 | 105 | 75 - 125 | 105 | 85 - 115 | <10 | ug | 0.96 (1) | 20 |
| 8917105 | Sulphur (S) | 2023/09/15 | 108 | 75 - 125 | 103 | 85 - 115 | <25 | ug | 0.29 (1) | 20 |
| 8917105 | Vanadium (V) | 2023/09/15 | 98 | 75 - 125 | 101 | 85 - 115 | <5.0 | ug | 2.1 (1) | 20 |
| 8917105 | Zinc (Zn) | 2023/09/15 | 97 | 75 - 125 | 98 | 85 - 115 | <5.0 | ug | 0.51 (1) | 20 |
| 8932135 | Total Mercury (Hg) | 2023/09/22 | 90 (2) | 80 - 120 | 98 | 90 - 110 | <0.002 | ug | NC (3) | 20 |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Duplicate Parent ID

(2) Matrix Spike Parent ID [WXX480-01]

(3) Duplicate Parent ID [WXX480-01]



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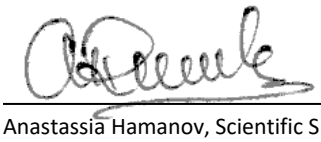
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3R5526
Report Date: 2023/09/22

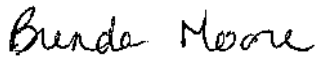
WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist



Brenda Moore, Team Lead, Inorganic

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08-Sep-23 09:04
Cristina (Maria) Bacchus

C3R5526

AK0 AIR-RmTmp

CAM FCD-01302 /3

obello Rd
a Ontario ,L5N 2L8
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM + CB + EM

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening (Inner Diameter) | Dust Fall Opening (Outer Diameter) | Silica | PM 10 | PM 2.5 | Dustfall | TSP | Metals | Mercury | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| July Bell Towers Dustfall | | | Aug 1 - Sep 1 | | 5.5" | 6.5" | | | | X | | | | | | | |
| July Teardrop Dustfall | | | Aug 1 - Sep 1 | | 5.5" | 6.5" | | | | X | | | | | | | |
| July Tote Road Dustfall | | | Aug 1 - Sep 1 | | 5.5" | 6.5" | | | | X | | | | | | | |
| August 4 TSP 23061220 Bell Towers | | 43 | 5-Aug | | | | | | | | X | X | X | | | | |
| August 10 TSP 23051261 Bell Towers | | 42 | 10-Aug | | | | | | | | X | X | X | | | | |
| August 16 TSP 23051262 Bell Towers | | 43 | 17-Aug | | | | | | | | X | X | X | | | | |
| August 22 TSP 23051263 Bell Towers | | 42 | 22-Aug | | | | | | | | X | X | X | | | | |
| August 28 TSP 23051264 Bell Towers | | 42 | 28-Aug | | | | | | | | X | X | X | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2003.2023D.100
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Jade Browne

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com; emily.meek@kinross.com; aaron.peloquin@kinross.com; curtis.bloemberg@kinross.com***

Client Signature:
Affiliation:
Date/Time:

Received by:
Affiliation:
Date/Time: 08/09/23 09:04

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions*

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/09/22**
Report #: R7826363
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3R5526**
**Received: 2023/09/08, 09:04**

Sample Matrix: Filter
# Samples Received: 5

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | 5 | 2023/09/21 | 2023/09/22 | BRL SOP-00104 | EPA 7471B m |
| Total Metals on Hi-Vol Filter (6010Cmod) | 5 | 2023/09/14 | 2023/09/15 | CAM SOP-00408 | EPA 6010D m |
| Particulates on Filter (Method IO-3.1) | 5 | 2023/09/13 | 2023/09/13 | CAM SOP-00942 | Method IO-3.1 |

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

Encryption Key

Cristina (Maria) Bacchus
Project Manager
22 Sep 2023 16:57:49

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C3R5526
Report Date: 2023/09/22

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | WXX478 | WXX479 | WXX480 | WXX481 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/08/05 | 2023/08/10 | 2023/08/17 | 2023/08/22 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | AUGUST 4 TSP 23061220 BELL TOWERS | AUGUST 10 TSP 23051261 BELL TOWERS | AUGUST 16 TSP 23051262 BELL TOWERS | AUGUST 22 TSP 23051263 BELL TOWERS | RDL | QC Batch |
| Particulate Weight on Filter | mg | 34.9 | 19.1 | 59.6 | 36.3 | 5.0 | 8913915 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

| Bureau Veritas ID | | WXX482 | | |
|---|---|---|---|---|
| Sampling Date | | 2023/08/28 | | |
| COC Number | | n/a | | |
| | UNITS | AUGUST 28 TSP 23051264 BELL TOWERS | RDL | QC Batch |
| Particulate Weight on Filter | mg | 25.3 | 5.0 | 8913915 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Bureau Veritas Job #: C3R5526
Report Date: 2023/09/22

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## MERCURY BY COLD VAPOUR AA (FILTER)

| Bureau Veritas ID | | WXX478 | WXX479 | WXX480 | WXX481 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/08/05 | 2023/08/10 | 2023/08/17 | 2023/08/22 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | AUGUST 4 TSP 23061220 BELL TOWERS | AUGUST 10 TSP 23051261 BELL TOWERS | AUGUST 16 TSP 23051262 BELL TOWERS | AUGUST 22 TSP 23051263 BELL TOWERS | RDL | QC Batch |
| **Metals** | | | | | | | |
| Total Mercury (Hg) | ug | <0.02 | <0.02 | <0.02 | <0.02 | 0.02 | 8932135 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

| Bureau Veritas ID | | WXX482 | | |
|---|---|---|---|---|
| Sampling Date | | 2023/08/28 | | |
| COC Number | | n/a | | |
| | UNITS | AUGUST 28 TSP 23051264 BELL TOWERS | RDL | QC Batch |
| **Metals** | | | | |
| Total Mercury (Hg) | ug | <0.02 | 0.02 | 8932135 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Bureau Veritas Job #: C3R5526
Report Date: 2023/09/22

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | WXX478 | WXX479 | WXX480 | WXX481 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/08/05 | 2023/08/10 | 2023/08/17 | 2023/08/22 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | AUGUST 4 TSP 23061220 BELL TOWERS | AUGUST 10 TSP 23051261 BELL TOWERS | AUGUST 16 TSP 23051262 BELL TOWERS | AUGUST 22 TSP 23051263 BELL TOWERS | RDL | QC Batch |
| **Metals** | | | | | | | |
| Arsenic (As) | ug | <6.0 | <6.0 | <6.0 | <6.0 | 6.0 | 8917105 |
| Cadmium (Cd) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 8917105 |
| Chromium (Cr) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 8917105 |
| Cobalt (Co) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 8917105 |
| Copper (Cu) | ug | 86.9 | 93.3 | 82.8 | 128 | 5.0 | 8917105 |
| Iron (Fe) | ug | 105 | 84 | <50 | 124 | 50 | 8917105 |
| Lead (Pb) | ug | 6.3 | <3.0 | <3.0 | <3.0 | 3.0 | 8917105 |
| Lithium (Li) | ug | <27 | <27 | <27 | <27 | 27 | 8917105 |
| Manganese (Mn) | ug | 7.7 | 1.6 | 3.0 | 6.3 | 1.0 | 8917105 |
| Nickel (Ni) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 8917105 |
| Selenium (Se) | ug | <10 | <10 | <10 | <10 | 10 | 8917105 |
| Sulphur (S) | ug | 594 | 269 | 542 | 479 | 25 | 8917105 |
| Vanadium (V) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 8917105 |
| Zinc (Zn) | ug | 11.6 | 7.0 | 18.1 | 9.5 | 5.0 | 8917105 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Bureau Veritas Job #: C3R5526
Report Date: 2023/09/22

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | WXX482 | | |
|---|---|---|---|---|
| Sampling Date | | 2023/08/28 | | |
| COC Number | | n/a | | |
| | UNITS | AUGUST 28 TSP 23051264 BELL TOWERS | RDL | QC Batch |
| **Metals** | | | | |
| Arsenic (As) | ug | <6.0 | 6.0 | 8917105 |
| Cadmium (Cd) | ug | <2.0 | 2.0 | 8917105 |
| Chromium (Cr) | ug | <5.0 | 5.0 | 8917105 |
| Cobalt (Co) | ug | <2.0 | 2.0 | 8917105 |
| Copper (Cu) | ug | 90.2 | 5.0 | 8917105 |
| Iron (Fe) | ug | <50 | 50 | 8917105 |
| Lead (Pb) | ug | <3.0 | 3.0 | 8917105 |
| Lithium (Li) | ug | <27 | 27 | 8917105 |
| Manganese (Mn) | ug | 2.6 | 1.0 | 8917105 |
| Nickel (Ni) | ug | <3.0 | 3.0 | 8917105 |
| Selenium (Se) | ug | <10 | 10 | 8917105 |
| Sulphur (S) | ug | 259 | 25 | 8917105 |
| Vanadium (V) | ug | <5.0 | 5.0 | 8917105 |
| Zinc (Zn) | ug | 12.6 | 5.0 | 8917105 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



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Bureau Veritas Job #: C3R5526
Report Date: 2023/09/22

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 8917105 | MEN | Matrix Spike | Arsenic (As) | 2023/09/15 | | 100 | % | 75 - 125 |
| | | | Cadmium (Cd) | 2023/09/15 | | 104 | % | 75 - 125 |
| | | | Chromium (Cr) | 2023/09/15 | | 109 | % | 75 - 125 |
| | | | Cobalt (Co) | 2023/09/15 | | 98 | % | 75 - 125 |
| | | | Copper (Cu) | 2023/09/15 | | 100 | % | 75 - 125 |
| | | | Iron (Fe) | 2023/09/15 | | 102 | % | 75 - 125 |
| | | | Lead (Pb) | 2023/09/15 | | 99 | % | 75 - 125 |
| | | | Manganese (Mn) | 2023/09/15 | | 99 | % | 75 - 125 |
| | | | Nickel (Ni) | 2023/09/15 | | 101 | % | 75 - 125 |
| | | | Selenium (Se) | 2023/09/15 | | 105 | % | 75 - 125 |
| | | | Sulphur (S) | 2023/09/15 | | 108 | % | 75 - 125 |
| | | | Vanadium (V) | 2023/09/15 | | 98 | % | 75 - 125 |
| | | | Zinc (Zn) | 2023/09/15 | | 97 | % | 75 - 125 |
| 8917105 | MEN | RPD | Arsenic (As) | 2023/09/15 | 0.70 | | % | 20 |
| | | | Cadmium (Cd) | 2023/09/15 | 0.19 | | % | 20 |
| | | | Chromium (Cr) | 2023/09/15 | 0.18 | | % | 20 |
| | | | Cobalt (Co) | 2023/09/15 | 0.20 | | % | 20 |
| | | | Copper (Cu) | 2023/09/15 | 0.20 | | % | 20 |
| | | | Iron (Fe) | 2023/09/15 | 0.69 | | % | 20 |
| | | | Lead (Pb) | 2023/09/15 | 0.41 | | % | 20 |
| | | | Manganese (Mn) | 2023/09/15 | 0.20 | | % | 20 |
| | | | Nickel (Ni) | 2023/09/15 | 0.60 | | % | 20 |
| | | | Selenium (Se) | 2023/09/15 | 1.5 | | % | 20 |
| | | | Sulphur (S) | 2023/09/15 | 3.0 | | % | 20 |
| | | | Vanadium (V) | 2023/09/15 | 1.6 | | % | 20 |
| | | | Zinc (Zn) | 2023/09/15 | 0.21 | | % | 20 |
| | | | Arsenic (As) | 2023/09/15 | 0.20 | | % | 20 |
| | | | Cadmium (Cd) | 2023/09/15 | 0.78 | | % | 20 |
| | | | Chromium (Cr) | 2023/09/15 | 0.95 | | % | 20 |
| | | | Cobalt (Co) | 2023/09/15 | 0.92 | | % | 20 |
| | | | Copper (Cu) | 2023/09/15 | 1.4 | | % | 20 |
| | | | Iron (Fe) | 2023/09/15 | 0.69 | | % | 20 |
| | | | Lead (Pb) | 2023/09/15 | 1.5 | | % | 20 |
| | | | Manganese (Mn) | 2023/09/15 | 1.0 | | % | 20 |
| | | | Nickel (Ni) | 2023/09/15 | 0.20 | | % | 20 |
| | | | Selenium (Se) | 2023/09/15 | 0.96 | | % | 20 |
| | | | Sulphur (S) | 2023/09/15 | 0.29 | | % | 20 |
| | | | Vanadium (V) | 2023/09/15 | 2.1 | | % | 20 |
| | | | Zinc (Zn) | 2023/09/15 | 0.51 | | % | 20 |
| 8917105 | MEN | Spiked Blank | Arsenic (As) | 2023/09/15 | | 102 | % | 85 - 115 |
| | | | Cadmium (Cd) | 2023/09/15 | | 103 | % | 85 - 115 |
| | | | Chromium (Cr) | 2023/09/15 | | 106 | % | 85 - 115 |
| | | | Cobalt (Co) | 2023/09/15 | | 99 | % | 85 - 115 |
| | | | Copper (Cu) | 2023/09/15 | | 104 | % | 85 - 115 |
| | | | Iron (Fe) | 2023/09/15 | | 101 | % | 85 - 115 |
| | | | Lead (Pb) | 2023/09/15 | | 98 | % | 85 - 115 |
| | | | Manganese (Mn) | 2023/09/15 | | 100 | % | 85 - 115 |
| | | | Nickel (Ni) | 2023/09/15 | | 100 | % | 85 - 115 |
| | | | Selenium (Se) | 2023/09/15 | | 105 | % | 85 - 115 |
| | | | Sulphur (S) | 2023/09/15 | | 103 | % | 85 - 115 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Vanadium (V) | 2023/09/15 | | 101 | % | 85 - 115 |
| | | | Zinc (Zn) | 2023/09/15 | | 98 | % | 85 - 115 |
| 8917105 | MEN | Method Blank | Arsenic (As) | 2023/09/15 | <6.0 | | ug | |
| | | | Cadmium (Cd) | 2023/09/15 | <2.0 | | ug | |
| | | | Chromium (Cr) | 2023/09/15 | <5.0 | | ug | |
| | | | Cobalt (Co) | 2023/09/15 | <2.0 | | ug | |
| | | | Copper (Cu) | 2023/09/15 | <5.0 | | ug | |
| | | | Iron (Fe) | 2023/09/15 | <50 | | ug | |
| | | | Lead (Pb) | 2023/09/15 | <3.0 | | ug | |
| | | | Lithium (Li) | 2023/09/15 | <27 | | ug | |
| | | | Manganese (Mn) | 2023/09/15 | <1.0 | | ug | |
| | | | Nickel (Ni) | 2023/09/15 | <3.0 | | ug | |
| | | | Selenium (Se) | 2023/09/15 | <10 | | ug | |
| | | | Sulphur (S) | 2023/09/15 | <25 | | ug | |
| | | | Vanadium (V) | 2023/09/15 | <5.0 | | ug | |
| | | | Zinc (Zn) | 2023/09/15 | <5.0 | | ug | |
| 8932135 | JGC | Matrix Spike [WXX480-01] | Total Mercury (Hg) | 2023/09/22 | | 90 | % | 80 - 120 |
| 8932135 | JGC | RPD [WXX480-01] | Total Mercury (Hg) | 2023/09/22 | 0.67 | | % | 20 |
| | | | Total Mercury (Hg) | 2023/09/22 | NC | | % | 20 |
| 8932135 | JGC | Spiked Blank | Total Mercury (Hg) | 2023/09/22 | | 98 | % | 90 - 110 |
| 8932135 | JGC | RPD | Total Mercury (Hg) | 2023/09/22 | 5.2 | | % | 20 |
| 8932135 | JGC | Method Blank | Total Mercury (Hg) | 2023/09/22 | <0.002 | | ug | |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



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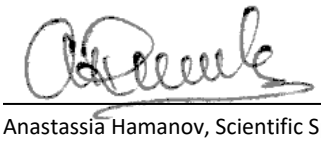
Bureau Veritas Job #: C3R5526
Report Date: 2023/09/22

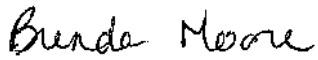
WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist



Brenda Moore, Team Lead, Inorganic

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/10/06**
Report #: R7849337
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3U1762**
**Received: 2023/09/28, 09:15**

Sample Matrix: Filter
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Particulates on Filter (Method IO-3.1) | 3 | 2023/10/06 | 2023/10/05 | CAM SOP-00942 | Method IO-3.1 |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCCFP, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/10/06**
Report #: R7849337
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3U1762**
**Received: 2023/09/28, 09:15**

Encryption Key

Jade Browne
Project Manager Assistant - Air
06 Oct 2023 17:28:30

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Bureau Veritas Job #: C3U1762
Report Date: 2023/10/06

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | XDI547 | XDI548 | XDI549 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2023/09/21 | 2023/09/15 | 2023/09/03 | | |
| COC Number | | n/a | n/a | n/a | | |
| | UNITS | BELL TOWERS TSP 23041350 | BELL TOWERS TSP 23071644 BLANK | BELL TOWERS TSP 23051265 | RDL | QC Batch |
| | | | | | | |
| Particulate Weight on Filter | mg | 51.0 | <5.0 | 120 | 5.0 | 8966680 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3U1762
Report Date: 2023/10/06

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** XDI547 **Collected:** 2023/09/21
**Sample ID:** BELL TOWERS TSP 23041350 **Shipped:**
**Matrix:** Filter **Received:** 2023/09/28

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulates on Filter (Method IO-3.1) | BAL | 8966680 | 2023/10/06 | 2023/10/05 | Andrea Contreras Arenas |

**Bureau Veritas ID:** XDI548 **Collected:** 2023/09/15
**Sample ID:** BELL TOWERS TSP 23071644 BLANK **Shipped:**
**Matrix:** Filter **Received:** 2023/09/28

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulates on Filter (Method IO-3.1) | BAL | 8966680 | 2023/10/06 | 2023/10/05 | Andrea Contreras Arenas |

**Bureau Veritas ID:** XDI549 **Collected:** 2023/09/03
**Sample ID:** BELL TOWERS TSP 23051265 **Shipped:**
**Matrix:** Filter **Received:** 2023/09/28

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Particulates on Filter (Method IO-3.1) | BAL | 8966680 | 2023/10/06 | 2023/10/05 | Andrea Contreras Arenas |



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



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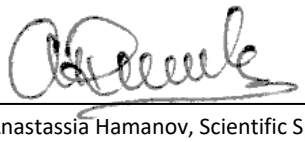
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3U1762
Report Date: 2023/10/06

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

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AIR

CAM FCD-01302 /3

BUREAU VERITAS
6740 Campobello Rd
Mississauga Ontario ,L5N 2L8
www.bvlabs.com
Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

## CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM + CB + EM + AP

**SECTION**

28-Sep-23 09:15
Jade Browne
C3U1762
WP AIR-RmTmp

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening (Inner Diameter) | Dust Fall Opening (Outer Diameter) | Silica | PM 10 | PM 2.5 | Dustfall | TSP |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Bell Towers TSP 23041350 | | 40 | Sep 21 2023 | | | | | | | | X |
| Bell Towers TSP 23071644 Blank | | 0 | Sep 15 2023 | | | | | | | | X |
| Bell Towers TSP 23051265 | | 42 | Sep 3 2023 | | | | | | | | X |
| Tote PM 2.5 23758129 | 24.02 | 16.7 | Sep 9 2023 | | | | | | X | | |
| Tote PM 2.5 23758131 | 24.01 | 16.7 | Sep 3 2023 | | | | | | X | | |
| Tote PM 2.5 23758092 | 24.03 | 16.7 | Sep 15 2023 | | | | | | X | | |
| Tote PM 2.5 23758096 | 24.02 | 16.7 | Sep 21 2023 | | | | | | X | | |
| Teardrop 47mm PVC 23032005 | 24.05 | 16.7 | Sep 3 2023 | | | | X | X | | | |
| Teardrop PM 10 23758090 | 24.05 | 16.7 | Sep 9 2023 | | | | | X | | | |
| Teardrop PM 10 23758088 | 24.05 | 16.7 | Sep 15 2023 | | | | | X | | | |
| Teardrop PM 10 23758095 | 24.05 | 16.7 | Sep 21 2023 | | | | | X | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2003.2023D.100
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Jade Browne

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com; emily.meek@kinross.com; aaron.peloquin@kinross.com; curtis.bloemberg@kinross.com***

Client Signature:
Affiliation:
Date/Time:

Received by: ANERI
Affiliation: ANERI
Date/Time: 2023/09/28 09:15

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions*

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/10/06**
Report #: R7849337
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3U1762**
**Received: 2023/09/28, 09:15**

Sample Matrix: Filter
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Particulates on Filter (Method IO-3.1) | 3 | 2023/10/06 | 2023/10/05 | CAM SOP-00942 | Method IO-3.1 |

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

Encryption Key

Jade Browne
Project Manager Assistant - Air
06 Oct 2023 17:28:31

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Bureau Veritas Job #: C3U1762
Report Date: 2023/10/06

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | XDI547 | XDI548 | XDI549 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2023/09/21 | 2023/09/15 | 2023/09/03 | | |
| COC Number | | n/a | n/a | n/a | | |
| | UNITS | BELL TOWERS TSP 23041350 | BELL TOWERS TSP 23071644 BLANK | BELL TOWERS TSP 23051265 | RDL | QC Batch |
| | | | | | | |
| Particulate Weight on Filter | mg | 51.0 | <5.0 | 120 | 5.0 | 8966680 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3U1762
Report Date: 2023/10/06

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

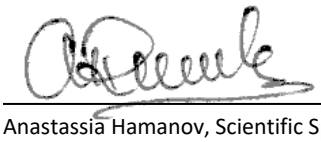
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3U1762
Report Date: 2023/10/06

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

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Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/10/25**
Report #: R7877688
Version: 2 - Revision

# CERTIFICATE OF ANALYSIS – REVISED REPORT

**BUREAU VERITAS JOB #: C3U1762**
**Received: 2023/09/28, 09:15**

Sample Matrix: Filter
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | 3 | 2023/10/18 | 2023/10/23 | BRL SOP-00104 | EPA 7471B m |
| Total Metals on Hi-Vol Filter (6010Cmod) | 3 | 2023/10/11 | 2023/10/13 | CAM SOP-00408 | EPA 6010D m |
| Particulates on Filter (Method IO-3.1) | 3 | 2023/10/06 | 2023/10/05 | CAM SOP-00942 | Method IO-3.1 |

**Remarks:**

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All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

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Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/10/25**
Report #: R7877688
Version: 2 - Revision

# CERTIFICATE OF ANALYSIS – REVISED REPORT

**BUREAU VERITAS JOB #: C3U1762**
**Received: 2023/09/28, 09:15**

Encryption Key

Jade Browne
Project Manager Assistant - Air
25 Oct 2023 10:14:17

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Bureau Veritas Job #: C3U1762
Report Date: 2023/10/25

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | XDI547 | XDI548 | XDI549 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2023/09/21 | 2023/09/15 | 2023/09/03 | | |
| COC Number | | n/a | n/a | n/a | | |
| | UNITS | BELL TOWERS TSP 23041350 | BELL TOWERS TSP 23071644 BLANK | BELL TOWERS TSP 23051265 | RDL | QC Batch |
| | | | | | | |
| Particulate Weight on Filter | mg | 51.0 | <5.0 | 120 | 5.0 | 8966680 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3U1762
Report Date: 2023/10/25

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## MERCURY BY COLD VAPOUR AA (FILTER)

| Bureau Veritas ID | | XDI547 | XDI548 | XDI549 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2023/09/21 | 2023/09/15 | 2023/09/03 | | |
| COC Number | | n/a | n/a | n/a | | |
| | UNITS | BELL TOWERS TSP 23041350 | BELL TOWERS TSP 23071644 BLANK | BELL TOWERS TSP 23051265 | RDL | QC Batch |
| **Metals** | | | | | | |
| Total Mercury (Hg) | ug | <0.02 | <0.02 | <0.02 | 0.02 | 8989122 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Bureau Veritas Job #: C3U1762
Report Date: 2023/10/25

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | XDI547 | XDI548 | XDI549 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2023/09/21 | 2023/09/15 | 2023/09/03 | | |
| COC Number | | n/a | n/a | n/a | | |
| | UNITS | BELL TOWERS TSP 23041350 | BELL TOWERS TSP 23071644 BLANK | BELL TOWERS TSP 23051265 | RDL | QC Batch |
| **Metals** | | | | | | |
| Arsenic (As) | ug | <6.0 | <6.0 | <6.0 | 6.0 | 8972449 |
| Cadmium (Cd) | ug | <2.0 | <2.0 | <2.0 | 2.0 | 8972449 |
| Chromium (Cr) | ug | <5.0 | <5.0 | <5.0 | 5.0 | 8972449 |
| Cobalt (Co) | ug | <2.0 | <2.0 | <2.0 | 2.0 | 8972449 |
| Copper (Cu) | ug | 110 | <5.0 | 99.9 | 5.0 | 8972449 |
| Iron (Fe) | ug | 118 | <50 | 375 | 50 | 8972449 |
| Lead (Pb) | ug | <3.0 | <3.0 | <3.0 | 3.0 | 8972449 |
| Lithium (Li) | ug | <27 | <27 | <27 | 27 | 8972449 |
| Manganese (Mn) | ug | 6.7 | <1.0 | 55.2 | 1.0 | 8972449 |
| Nickel (Ni) | ug | <3.0 | <3.0 | <3.0 | 3.0 | 8972449 |
| Selenium (Se) | ug | <10 | <10 | <10 | 10 | 8972449 |
| Sulphur (S) | ug | 510 | 77 | 963 | 25 | 8972449 |
| Vanadium (V) | ug | <5.0 | <5.0 | <5.0 | 5.0 | 8972449 |
| Zinc (Zn) | ug | 15.6 | 13.1 | 42.0 | 5.0 | 8972449 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3U1762
Report Date: 2023/10/25

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** XDI547 **Collected:** 2023/09/21
**Sample ID:** BELL TOWERS TSP 23041350 **Shipped:**
**Matrix:** Filter **Received:** 2023/09/28

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8989122 | 2023/10/18 | 2023/10/23 | Gagandeep Rai |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8972449 | 2023/10/11 | 2023/10/13 | Jolly John |
| Particulates on Filter (Method IO-3.1) | BAL | 8966680 | 2023/10/06 | 2023/10/05 | Andrea Contreras Arenas |

**Bureau Veritas ID:** XDI548 **Collected:** 2023/09/15
**Sample ID:** BELL TOWERS TSP 23071644 BLANK **Shipped:**
**Matrix:** Filter **Received:** 2023/09/28

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8989122 | 2023/10/18 | 2023/10/23 | Gagandeep Rai |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8972449 | 2023/10/11 | 2023/10/13 | Jolly John |
| Particulates on Filter (Method IO-3.1) | BAL | 8966680 | 2023/10/06 | 2023/10/05 | Andrea Contreras Arenas |

**Bureau Veritas ID:** XDI549 **Collected:** 2023/09/03
**Sample ID:** BELL TOWERS TSP 23051265 **Shipped:**
**Matrix:** Filter **Received:** 2023/09/28

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 8989122 | 2023/10/18 | 2023/10/23 | Gagandeep Rai |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 8972449 | 2023/10/11 | 2023/10/13 | Jolly John |
| Particulates on Filter (Method IO-3.1) | BAL | 8966680 | 2023/10/06 | 2023/10/05 | Andrea Contreras Arenas |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT



| | | | Matrix Spike | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8972449 | Arsenic (As) | 2023/10/13 | 108 | 75 - 125 | 105 | 85 - 115 | <6.0 | ug | NC (1) | 20 |
| 8972449 | Cadmium (Cd) | 2023/10/13 | 107 | 75 - 125 | 105 | 85 - 115 | <2.0 | ug | NC (1) | 20 |
| 8972449 | Chromium (Cr) | 2023/10/13 | 113 | 75 - 125 | 108 | 85 - 115 | <5.0 | ug | 1.9 (1) | 20 |
| 8972449 | Cobalt (Co) | 2023/10/13 | 104 | 75 - 125 | 104 | 85 - 115 | <2.0 | ug | NC (1) | 20 |
| 8972449 | Copper (Cu) | 2023/10/13 | 95 | 75 - 125 | 97 | 85 - 115 | <5.0 | ug | 2.5 (1) | 20 |
| 8972449 | Iron (Fe) | 2023/10/13 | 101 | 75 - 125 | 98 | 85 - 115 | <50 | ug | 1.3 (1) | 20 |
| 8972449 | Lead (Pb) | 2023/10/13 | 101 | 75 - 125 | 102 | 85 - 115 | <3.0 | ug | 7.3 (1) | 20 |
| 8972449 | Lithium (Li) | 2023/10/13 | | | | | <27 | ug | | |
| 8972449 | Manganese (Mn) | 2023/10/13 | 107 | 75 - 125 | 100 | 85 - 115 | <1.0 | ug | 0.59 (1) | 20 |
| 8972449 | Nickel (Ni) | 2023/10/13 | 99 | 75 - 125 | 103 | 85 - 115 | <3.0 | ug | NC (1) | 20 |
| 8972449 | Selenium (Se) | 2023/10/13 | 105 | 75 - 125 | 102 | 85 - 115 | <10 | ug | 2.0 (1) | 20 |
| 8972449 | Sulphur (S) | 2023/10/13 | 113 | 75 - 125 | 105 | 85 - 115 | <25 | ug | 0.77 (1) | 20 |
| 8972449 | Vanadium (V) | 2023/10/13 | 105 | 75 - 125 | 100 | 85 - 115 | <5.0 | ug | 2.2 (1) | 20 |
| 8972449 | Zinc (Zn) | 2023/10/13 | 100 | 75 - 125 | 102 | 85 - 115 | <5.0 | ug | 0.45 (1) | 20 |
| 8989122 | Total Mercury (Hg) | 2023/10/23 | 101 | 80 - 120 | 103 | 90 - 110 | <0.02 | ug | 4.4 (1) | 20 |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Duplicate Parent ID



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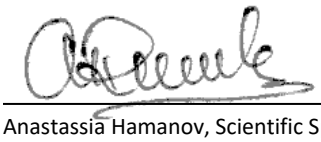
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3U1762
Report Date: 2023/10/25

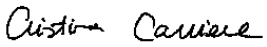
WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist



Cristina Carriere, Senior Scientific Specialist

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

# AIR

BUREAU VERITAS

6740 Campobello Rd
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www.bvlabs.com

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Phone: (905) 817-5700
Fax: (905) 817-5777

CAM FCD-01302 /3

## CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM + CB + EM + AP

**SECTION**

28-Sep-23 09:15
Jade Browne
C3U1762
WP AIR-RmTmp

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening (Inner Diameter) | Dust Fall Opening (Outer Diameter) | Silica | PM 10 | PM 2.5 | Dustfall | TSP |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Bell Towers TSP 23041350 | | 40 | Sep 21 2023 | | | | | | | | X |
| Bell Towers TSP 23071644 Blank | | 0 | Sep 15 2023 | | | | | | | | X |
| Bell Towers TSP 23051265 | | 42 | Sep 3 2023 | | | | | | | | X |
| Tote PM 2.5 23758129 | 24.02 | 16.7 | Sep 9 2023 | | | | | | X | | |
| Tote PM 2.5 23758131 | 24.01 | 16.7 | Sep 3 2023 | | | | | | X | | |
| Tote PM 2.5 23758092 | 24.03 | 16.7 | Sep 15 2023 | | | | | | X | | |
| Tote PM 2.5 23758096 | 24.02 | 16.7 | Sep 21 2023 | | | | | | X | | |
| Teardrop 47mm PVC 23032005 | 24.05 | 16.7 | Sep 3 2023 | | | | X | X | | | |
| Teardrop PM 10 23758090 | 24.05 | 16.7 | Sep 9 2023 | | | | | X | | | |
| Teardrop PM 10 23758088 | 24.05 | 16.7 | Sep 15 2023 | | | | | X | | | |
| Teardrop PM 10 23758095 | 24.05 | 16.7 | Sep 21 2023 | | | | | X | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2003.2023D.100
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Jade Browne

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com; emily.meek@kinross.com; aaron.peloquin@kinross.com; curtis.bloemberg@kinross.com***

Client Signature:
Affiliation:
Date/Time:

Received by: ANERI
Affiliation: ANERI
Date/Time: 2023/09/28 09:15

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions*

Your P.O. #: EICAC026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/04/19**
Report #: R8115333
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4A0959**
**Received: 2024/04/05, 09:00**

Sample Matrix: Filter
# Samples Received: 5

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | 5 | 2024/04/17 | 2024/04/17 | BRL SOP-00104 | EPA 7471B m |
| Total Metals on Hi-Vol Filter (6010Cmod) | 5 | 2024/04/16 | 2024/04/17 | CAM SOP-00408 | EPA 6010D m |
| Particulates on Filter (Method IO-3.1) | 5 | 2024/04/11 | 2024/04/11 | CAM SOP-00942 | Method IO-3.1 |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: EICAC026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/04/19**
Report #: R8115333
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4A0959**
**Received: 2024/04/05, 09:00**

Encryption Key

Jade Browne
Project Manager Assistant - Air
19 Apr 2024 18:08:09

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C4A0959
Report Date: 2024/04/19

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | YUZ265 | YUZ266 | YUZ267 | YUZ268 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/03/07 | 2024/03/13 | 2024/03/19 | 2024/03/25 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | MARCH 7TH TSP BELL TOWERS | MARCH 13TH TSP BELL TOWERS | MARCH 19TH TSP BELL TOWERS | MARCH 25TH TSP BELL TOWERS | RDL | QC Batch |
| Particulate Weight on Filter | mg | 5.8 | <5.0 | 9.4 | <5.0 | 5.0 | 9328585 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

| Bureau Veritas ID | | YUZ269 | | |
|---|---|---|---|---|
| Sampling Date | | 2024/03/31 | | |
| COC Number | | n/a | | |
| | UNITS | MARCH 31ST TSP BELL TOWERS | RDL | QC Batch |
| Particulate Weight on Filter | mg | <5.0 | 5.0 | 9328585 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4A0959
Report Date: 2024/04/19

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## MERCURY BY COLD VAPOUR AA (FILTER)

| Bureau Veritas ID | | YUZ265 | YUZ266 | YUZ267 | YUZ268 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/03/07 | 2024/03/13 | 2024/03/19 | 2024/03/25 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | MARCH 7TH TSP BELL TOWERS | MARCH 13TH TSP BELL TOWERS | MARCH 19TH TSP BELL TOWERS | MARCH 25TH TSP BELL TOWERS | RDL | QC Batch |
| **Metals** | | | | | | | |
| Total Mercury (Hg) | ug | <0.02 | <0.02 | <0.02 | <0.02 | 0.02 | 9338969 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

| Bureau Veritas ID | | YUZ269 | | |
|---|---|---|---|---|
| Sampling Date | | 2024/03/31 | | |
| COC Number | | n/a | | |
| | UNITS | MARCH 31ST TSP BELL TOWERS | RDL | QC Batch |
| **Metals** | | | | |
| Total Mercury (Hg) | ug | <0.02 | 0.02 | 9338969 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4A0959
Report Date: 2024/04/19

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | YUZ265 | YUZ266 | YUZ266 | YUZ267 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/03/07 | 2024/03/13 | 2024/03/13 | 2024/03/19 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | MARCH 7TH TSP BELL TOWERS | MARCH 13TH TSP BELL TOWERS | MARCH 13TH TSP BELL TOWERS Lab-Dup | MARCH 19TH TSP BELL TOWERS | RDL | QC Batch |
| **Metals** | | | | | | | |
| Arsenic (As) | ug | <6.0 | <6.0 | <6.0 | <6.0 | 6.0 | 9335925 |
| Cadmium (Cd) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 9335925 |
| Chromium (Cr) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 9335925 |
| Cobalt (Co) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 9335925 |
| Copper (Cu) | ug | 47.5 | 162 | 174 | 113 | 5.0 | 9335925 |
| Iron (Fe) | ug | 91 | <50 | <50 | 102 | 50 | 9335925 |
| Lead (Pb) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 9335925 |
| Lithium (Li) | ug | <27 | <27 | <27 | <27 | 27 | 9335925 |
| Manganese (Mn) | ug | 3.5 | 1.3 | 1.6 | 3.7 | 1.0 | 9335925 |
| Nickel (Ni) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 9335925 |
| Selenium (Se) | ug | <10 | <10 | <10 | <10 | 10 | 9335925 |
| Sulphur (S) | ug | 448 | 321 | 337 | 415 | 25 | 9335925 |
| Vanadium (V) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 9335925 |
| Zinc (Zn) | ug | 14.2 | 24.1 | 23.3 | 11.8 | 5.0 | 9335925 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4A0959
Report Date: 2024/04/19

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | YUZ268 | YUZ269 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2024/03/25 | 2024/03/31 | | |
| COC Number | | n/a | n/a | | |
| | UNITS | MARCH 25TH TSP BELL TOWERS | MARCH 31ST TSP BELL TOWERS | RDL | QC Batch |
| **Metals** | | | | | |
| Arsenic (As) | ug | <6.0 | <6.0 | 6.0 | 9335925 |
| Cadmium (Cd) | ug | <2.0 | <2.0 | 2.0 | 9335925 |
| Chromium (Cr) | ug | <5.0 | <5.0 | 5.0 | 9335925 |
| Cobalt (Co) | ug | <2.0 | <2.0 | 2.0 | 9335925 |
| Copper (Cu) | ug | 111 | 95.7 | 5.0 | 9335925 |
| Iron (Fe) | ug | 79 | 53 | 50 | 9335925 |
| Lead (Pb) | ug | <3.0 | <3.0 | 3.0 | 9335925 |
| Lithium (Li) | ug | <27 | <27 | 27 | 9335925 |
| Manganese (Mn) | ug | 2.6 | 2.7 | 1.0 | 9335925 |
| Nickel (Ni) | ug | <3.0 | 16.7 | 3.0 | 9335925 |
| Selenium (Se) | ug | <10 | <10 | 10 | 9335925 |
| Sulphur (S) | ug | 818 | 468 | 25 | 9335925 |
| Vanadium (V) | ug | <5.0 | <5.0 | 5.0 | 9335925 |
| Zinc (Zn) | ug | 10.1 | 15.0 | 5.0 | 9335925 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4A0959
Report Date: 2024/04/19

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** YUZ265 **Collected:** 2024/03/07
**Sample ID:** MARCH 7TH TSP BELL TOWERS **Shipped:**
**Matrix:** Filter **Received:** 2024/04/05

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9338969 | 2024/04/17 | 2024/04/17 | Gagandeep Rai |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 9335925 | 2024/04/16 | 2024/04/17 | Japneet Gill |
| Particulates on Filter (Method IO-3.1) | BAL | 9328585 | 2024/04/11 | 2024/04/11 | Ka Man Chan |

**Bureau Veritas ID:** YUZ266 **Collected:** 2024/03/13
**Sample ID:** MARCH 13TH TSP BELL TOWERS **Shipped:**
**Matrix:** Filter **Received:** 2024/04/05

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9338969 | 2024/04/17 | 2024/04/17 | Gagandeep Rai |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 9335925 | 2024/04/16 | 2024/04/17 | Japneet Gill |
| Particulates on Filter (Method IO-3.1) | BAL | 9328585 | 2024/04/11 | 2024/04/11 | Ka Man Chan |

**Bureau Veritas ID:** YUZ266 Dup **Collected:** 2024/03/13
**Sample ID:** MARCH 13TH TSP BELL TOWERS **Shipped:**
**Matrix:** Filter **Received:** 2024/04/05

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 9335925 | 2024/04/16 | 2024/04/17 | Japneet Gill |

**Bureau Veritas ID:** YUZ267 **Collected:** 2024/03/19
**Sample ID:** MARCH 19TH TSP BELL TOWERS **Shipped:**
**Matrix:** Filter **Received:** 2024/04/05

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9338969 | 2024/04/17 | 2024/04/17 | Gagandeep Rai |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 9335925 | 2024/04/16 | 2024/04/17 | Japneet Gill |
| Particulates on Filter (Method IO-3.1) | BAL | 9328585 | 2024/04/11 | 2024/04/11 | Ka Man Chan |

**Bureau Veritas ID:** YUZ268 **Collected:** 2024/03/25
**Sample ID:** MARCH 25TH TSP BELL TOWERS **Shipped:**
**Matrix:** Filter **Received:** 2024/04/05

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9338969 | 2024/04/17 | 2024/04/17 | Gagandeep Rai |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 9335925 | 2024/04/16 | 2024/04/17 | Japneet Gill |
| Particulates on Filter (Method IO-3.1) | BAL | 9328585 | 2024/04/11 | 2024/04/11 | Ka Man Chan |

**Bureau Veritas ID:** YUZ269 **Collected:** 2024/03/31
**Sample ID:** MARCH 31ST TSP BELL TOWERS **Shipped:**
**Matrix:** Filter **Received:** 2024/04/05

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9338969 | 2024/04/17 | 2024/04/17 | Gagandeep Rai |



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4A0959
Report Date: 2024/04/19

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** YUZ269
**Sample ID:** MARCH 31ST TSP BELL TOWERS
**Matrix:** Filter

**Collected:** 2024/03/31
**Shipped:**
**Received:** 2024/04/05

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 9335925 | 2024/04/16 | 2024/04/17 | Japneet Gill |
| Particulates on Filter (Method IO-3.1) | BAL | 9328585 | 2024/04/11 | 2024/04/11 | Ka Man Chan |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

| | |
|---|---|
| Package 1 | 13.3°C |

Sample YUZ266 [MARCH 13TH TSP BELL TOWERS] : FT Filter torn
LFT Loose filter material

Sample YUZ267 [MARCH 19TH TSP BELL TOWERS] : NPF Filter not properly folded

**Results relate only to the items tested.**



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## QUALITY ASSURANCE REPORT



| | | | Matrix Spike | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 9335925 | Arsenic (As) | 2024/04/17 | 104 (1) | 75 - 125 | 102 | 85 - 115 | <6.0 | ug | NC (3) | 20 |
| 9335925 | Cadmium (Cd) | 2024/04/17 | 104 (1) | 75 - 125 | 103 | 85 - 115 | <2.0 | ug | NC (3) | 20 |
| 9335925 | Chromium (Cr) | 2024/04/17 | 104 (1) | 75 - 125 | 103 | 85 - 115 | <5.0 | ug | NC (3) | 20 |
| 9335925 | Cobalt (Co) | 2024/04/17 | 102 (1) | 75 - 125 | 101 | 85 - 115 | <2.0 | ug | NC (3) | 20 |
| 9335925 | Copper (Cu) | 2024/04/17 | 105 (1) | 75 - 125 | 101 | 85 - 115 | <5.0 | ug | 7.1 (3) | 20 |
| 9335925 | Iron (Fe) | 2024/04/17 | 102 (1) | 75 - 125 | 100 | 85 - 115 | <50 | ug | NC (3) | 20 |
| 9335925 | Lead (Pb) | 2024/04/17 | 101 (1) | 75 - 125 | 100 | 85 - 115 | <3.0 | ug | NC (3) | 20 |
| 9335925 | Lithium (Li) | 2024/04/17 | | | | | <27 | ug | NC (3) | 20 |
| 9335925 | Manganese (Mn) | 2024/04/17 | 103 (1) | 75 - 125 | 101 | 85 - 115 | <1.0 | ug | NC (3) | 20 |
| 9335925 | Nickel (Ni) | 2024/04/17 | 102 (1) | 75 - 125 | 101 | 85 - 115 | <3.0 | ug | NC (3) | 20 |
| 9335925 | Selenium (Se) | 2024/04/17 | 107 (1) | 75 - 125 | 104 | 85 - 115 | <10 | ug | NC (3) | 20 |
| 9335925 | Sulphur (S) | 2024/04/17 | 113 (1) | 75 - 125 | 102 | 85 - 115 | <25 | ug | 5.0 (3) | 20 |
| 9335925 | Vanadium (V) | 2024/04/17 | 100 (1) | 75 - 125 | 99 | 85 - 115 | <5.0 | ug | NC (3) | 20 |
| 9335925 | Zinc (Zn) | 2024/04/17 | 100 (1) | 75 - 125 | 99 | 85 - 115 | <5.0 | ug | 3.4 (3) | 20 |
| 9338969 | Total Mercury (Hg) | 2024/04/17 | 103 | 80 - 120 | 102 | 90 - 110 | <0.002 | ug | 7.4 (2) | 20 |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Matrix Spike Parent ID [YUZ266-01]

(2) Duplicate Parent ID

(3) Duplicate Parent ID [YUZ266-01]



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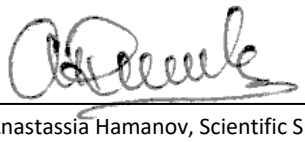
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4A0959
Report Date: 2024/04/19

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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ATP

BUREAU VERITAS
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Phone: (905) 817-5700
Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR

CAM FCD-01302 /3

Page 1 of 1

**CLIENT INFORMATION**

Company Name: Kinross / WSP E&I Canada
Project Manager: Ryan Fletcher
e-mail: See comments below for email list
Address: 19 Young Street, Red Lake, ON, CA, P0V 2M0
Phone: 1 647-283-4638 Fax:
Sampled by: JM + CB + EM + AP

**SECTION**

**ANALYSIS REQUESTED**

05-Apr-24 09:00
Gina Baybayan
C4A0959

RUK AIR-RmTmp

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Run Time | Dust Fall Opening (Inner Diameter) | Dust Fall Opening (Outer Diameter) | Silica | PM 10 | PM 2.5 | Dustfall | TSP | Metals | Mercury |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| March Bell Towers Dustfall | | | Mar 2 - April 1 | 30 Days | 5.5" | 6.5" | | | | X | | X | |
| March Teardrop Dustfall | | | Mar 2 - April 1 | 30 Days | 5.5" | 6.5" | | | | X | | X | |
| March Tote Road Dustfall | | | Mar 2 - April 1 | 30 Days | 5.5" | 6.5" | | | | X | | X | |
| March 7th TSP Bell Towers | | N/A | 7-Mar | 23.59 | | | | | | | X | X | X |
| March 13th TSP Bell Towers | | 44 | 13-Mar | 24.33 | | | | | | | X | X | X |
| March 19th TSP Bell Towers | | 44 | 19-Mar | 22.92 | | | | | | | X | X | X |
| March 25th TSP Bell Towers | | N/A | 25-Mar | 22.92 | | | | | | | X | X | X |
| March 31st TSP Bell Towers | | 44 | 31-Mar | 22.6 | | | | | | | X | X | X |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2303.2023D.100
Name: Kinross Project
PO #: EICAC026300307
BV Quote #:
BV Contact: Jade Browne

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; ryan.fletcher@wsp.com; airgroup@woodplc.com; emily.meek@kinross.com; aaron.peloquin@kinross.com; curtis.bloemberg@kinross.com***

Client Signature: CB
Affiliation: Kinross
Date/Time: 4/2/2024

Received by: SUCHIT SALVAN
Affiliation:
Date/Time: 2024/04/05 09:00

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions*

M / 14 / 13

Your P.O. #: EICAC026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/06/21**
Report #: R8201728
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4H2394**
**Received: 2024/06/06, 11:00**

Sample Matrix: Filter
# Samples Received: 5

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | 5 | 2024/06/19 | 2024/06/21 | BRL SOP-00104 | EPA 7471B m |
| Total Metals on Hi-Vol Filter (6010Cmod) | 5 | 2024/06/18 | 2024/06/19 | CAM SOP-00408 | EPA 6010D m |
| Particulates on Filter (Method IO-3.1) | 5 | 2024/06/12 | 2024/06/12 | CAM SOP-00942 | Method IO-3.1 |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: EICAC026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/06/21**
Report #: R8201728
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4H2394**
**Received: 2024/06/06, 11:00**

Encryption Key

Cristina (Maria) Bacchus
Project Manager
21 Jun 2024 17:36:40

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C4H2394
Report Date: 2024/06/21

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | ZJT940 | ZJT941 | ZJT942 | ZJT943 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/05/06 | 2024/05/12 | 2024/05/18 | 2024/05/24 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | HI VOL QUARTZ 24020151 BELL TOWERS | HI VOL QUARTZ 24022390 BELL TOWERS | HI VOL QUARTZ 24022391 BELL TOWERS-2024/05/18 | HI VOL QUARTZ 24022391 BELL TOWERS-2024/05/24 | RDL | QC Batch |
| Particulate Weight on Filter | mg | 7.4 | 51.5 | 44.3 | 28.3 | 5.0 | 9450658 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

| Bureau Veritas ID | | ZJT944 | | |
|---|---|---|---|---|
| Sampling Date | | 2024/05/30 | | |
| COC Number | | n/a | | |
| | UNITS | HI VOL QUARTZ 24012988 BELL TOWERS | RDL | QC Batch |
| Particulate Weight on Filter | mg | 40.1 | 5.0 | 9450658 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4H2394
Report Date: 2024/06/21

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## MERCURY BY COLD VAPOUR AA (FILTER)

| Bureau Veritas ID | | ZJT940 | ZJT940 | ZJT941 | ZJT942 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/05/06 | 2024/05/06 | 2024/05/12 | 2024/05/18 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | HI VOL QUARTZ 24020151 BELL TOWERS | HI VOL QUARTZ 24020151 BELL TOWERS Lab-Dup | HI VOL QUARTZ 24022390 BELL TOWERS | HI VOL QUARTZ 24022391 BELL TOWERS-2024/05/18 | RDL | QC Batch |
| **Metals** | | | | | | | |
| Total Mercury (Hg) | ug | <0.02 | <0.02 | <0.02 | <0.02 | 0.02 | 9464603 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

| Bureau Veritas ID | | ZJT943 | ZJT944 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2024/05/24 | 2024/05/30 | | |
| COC Number | | n/a | n/a | | |
| | UNITS | HI VOL QUARTZ 24022391 BELL TOWERS-2024/05/24 | HI VOL QUARTZ 24012988 BELL TOWERS | RDL | QC Batch |
| **Metals** | | | | | |
| Total Mercury (Hg) | ug | <0.02 | <0.02 | 0.02 | 9464603 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4H2394
Report Date: 2024/06/21

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | ZJT940 | ZJT941 | ZJT942 | ZJT943 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/05/06 | 2024/05/12 | 2024/05/18 | 2024/05/24 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | HI VOL QUARTZ 24020151 BELL TOWERS | HI VOL QUARTZ 24022390 BELL TOWERS | HI VOL QUARTZ 24022391 BELL TOWERS-2024/05/18 | HI VOL QUARTZ 24022391 BELL TOWERS-2024/05/24 | RDL | QC Batch |
| **Metals** | | | | | | | |
| Arsenic (As) | ug | <6.0 | <6.0 | <6.0 | <6.0 | 6.0 | 9461697 |
| Cadmium (Cd) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 9461697 |
| Chromium (Cr) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 9461697 |
| Cobalt (Co) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 9461697 |
| Copper (Cu) | ug | 76.4 | 78.8 | 67.0 | 107 | 5.0 | 9461697 |
| Iron (Fe) | ug | 113 | 158 | 64 | 54 | 50 | 9461697 |
| Lead (Pb) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 9461697 |
| Lithium (Li) | ug | <27 | <27 | <27 | <27 | 27 | 9461697 |
| Manganese (Mn) | ug | 3.0 | 35.3 | 6.5 | 3.4 | 1.0 | 9461697 |
| Nickel (Ni) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 9461697 |
| Selenium (Se) | ug | <10 | <10 | <10 | <10 | 10 | 9461697 |
| Sulphur (S) | ug | 260 | 540 | 347 | 334 | 25 | 9461697 |
| Vanadium (V) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 9461697 |
| Zinc (Zn) | ug | 8.6 | 36.5 | 8.9 | 38.7 | 5.0 | 9461697 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4H2394
Report Date: 2024/06/21

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## ELEMENTS BY ICP-AES (FILTER)

| **Bureau Veritas ID** | | ZJT944 | | |
|---|---|---|---|---|
| **Sampling Date** | | 2024/05/30 | | |
| **COC Number** | | n/a | | |
| | **UNITS** | **HI VOL QUARTZ 24012988 BELL TOWERS** | **RDL** | **QC Batch** |
| **Metals** | | | | |
| Arsenic (As) | ug | <6.0 | 6.0 | 9461697 |
| Cadmium (Cd) | ug | <2.0 | 2.0 | 9461697 |
| Chromium (Cr) | ug | <5.0 | 5.0 | 9461697 |
| Cobalt (Co) | ug | <2.0 | 2.0 | 9461697 |
| Copper (Cu) | ug | 66.4 | 5.0 | 9461697 |
| Iron (Fe) | ug | 213 | 50 | 9461697 |
| Lead (Pb) | ug | <3.0 | 3.0 | 9461697 |
| Lithium (Li) | ug | <27 | 27 | 9461697 |
| Manganese (Mn) | ug | 8.6 | 1.0 | 9461697 |
| Nickel (Ni) | ug | <3.0 | 3.0 | 9461697 |
| Selenium (Se) | ug | <10 | 10 | 9461697 |
| Sulphur (S) | ug | 284 | 25 | 9461697 |
| Vanadium (V) | ug | <5.0 | 5.0 | 9461697 |
| Zinc (Zn) | ug | 6.8 | 5.0 | 9461697 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4H2394
Report Date: 2024/06/21

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** ZJT940 **Collected:** 2024/05/06
**Sample ID:** HI VOL QUARTZ 24020151 BELL TOWERS **Shipped:**
**Matrix:** Filter **Received:** 2024/06/06

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9464603 | 2024/06/19 | 2024/06/21 | Gagandeep Rai |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 9461697 | 2024/06/18 | 2024/06/19 | Medhat Nasr |
| Particulates on Filter (Method IO-3.1) | BAL | 9450658 | 2024/06/12 | 2024/06/12 | Joseph-Noel Andres |

**Bureau Veritas ID:** ZJT940 Dup **Collected:** 2024/05/06
**Sample ID:** HI VOL QUARTZ 24020151 BELL TOWERS **Shipped:**
**Matrix:** Filter **Received:** 2024/06/06

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9464603 | 2024/06/19 | 2024/06/21 | Gagandeep Rai |

**Bureau Veritas ID:** ZJT941 **Collected:** 2024/05/12
**Sample ID:** HI VOL QUARTZ 24022390 BELL TOWERS **Shipped:**
**Matrix:** Filter **Received:** 2024/06/06

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9464603 | 2024/06/19 | 2024/06/21 | Gagandeep Rai |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 9461697 | 2024/06/18 | 2024/06/19 | Medhat Nasr |
| Particulates on Filter (Method IO-3.1) | BAL | 9450658 | 2024/06/12 | 2024/06/12 | Joseph-Noel Andres |

**Bureau Veritas ID:** ZJT942 **Collected:** 2024/05/18
**Sample ID:** HI VOL QUARTZ 24022391 BELL TOWERS-2024/05/18 **Shipped:**
**Matrix:** Filter **Received:** 2024/06/06

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9464603 | 2024/06/19 | 2024/06/21 | Gagandeep Rai |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 9461697 | 2024/06/18 | 2024/06/19 | Medhat Nasr |
| Particulates on Filter (Method IO-3.1) | BAL | 9450658 | 2024/06/12 | 2024/06/12 | Joseph-Noel Andres |

**Bureau Veritas ID:** ZJT943 **Collected:** 2024/05/24
**Sample ID:** HI VOL QUARTZ 24022391 BELL TOWERS-2024/05/24 **Shipped:**
**Matrix:** Filter **Received:** 2024/06/06

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9464603 | 2024/06/19 | 2024/06/21 | Gagandeep Rai |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 9461697 | 2024/06/18 | 2024/06/19 | Medhat Nasr |
| Particulates on Filter (Method IO-3.1) | BAL | 9450658 | 2024/06/12 | 2024/06/12 | Joseph-Noel Andres |

**Bureau Veritas ID:** ZJT944 **Collected:** 2024/05/30
**Sample ID:** HI VOL QUARTZ 24012988 BELL TOWERS **Shipped:**
**Matrix:** Filter **Received:** 2024/06/06

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9464603 | 2024/06/19 | 2024/06/21 | Gagandeep Rai |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4H2394
Report Date: 2024/06/21

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** ZJT944
**Sample ID:** HI VOL QUARTZ 24012988 BELL TOWERS
**Matrix:** Filter

**Collected:** 2024/05/30
**Shipped:**
**Received:** 2024/06/06

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 9461697 | 2024/06/18 | 2024/06/19 | Medhat Nasr |
| Particulates on Filter (Method IO-3.1) | BAL | 9450658 | 2024/06/12 | 2024/06/12 | Joseph-Noel Andres |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

# QUALITY ASSURANCE REPORT



| | | | Matrix Spike | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 9461697 | Arsenic (As) | 2024/06/19 | 100 | 75 - 125 | 102 | 85 - 115 | <6.0 | ug | 0.20 (1) | 20 |
| 9461697 | Cadmium (Cd) | 2024/06/19 | 102 | 75 - 125 | 101 | 85 - 115 | <2.0 | ug | 0.49 (1) | 20 |
| 9461697 | Chromium (Cr) | 2024/06/19 | 100 | 75 - 125 | 100 | 85 - 115 | <5.0 | ug | 0.30 (1) | 20 |
| 9461697 | Cobalt (Co) | 2024/06/19 | 99 | 75 - 125 | 99 | 85 - 115 | <2.0 | ug | 0.41 (1) | 20 |
| 9461697 | Copper (Cu) | 2024/06/19 | 101 | 75 - 125 | 100 | 85 - 115 | <5.0 | ug | 0.60 (1) | 20 |
| 9461697 | Iron (Fe) | 2024/06/19 | 101 | 75 - 125 | 100 | 85 - 115 | <50 | ug | 0.70 (1) | 20 |
| 9461697 | Lead (Pb) | 2024/06/19 | 99 | 75 - 125 | 98 | 85 - 115 | <3.0 | ug | 0.31 (1) | 20 |
| 9461697 | Lithium (Li) | 2024/06/19 | | | | | <27 | ug | NC (1) | 20 |
| 9461697 | Manganese (Mn) | 2024/06/19 | 103 | 75 - 125 | 102 | 85 - 115 | <1.0 | ug | 0.88 (1) | 20 |
| 9461697 | Nickel (Ni) | 2024/06/19 | 99 | 75 - 125 | 99 | 85 - 115 | <3.0 | ug | 0.80 (1) | 20 |
| 9461697 | Selenium (Se) | 2024/06/19 | 106 | 75 - 125 | 105 | 85 - 115 | <10 | ug | 1.7 (1) | 20 |
| 9461697 | Sulphur (S) | 2024/06/19 | 110 | 75 - 125 | 103 | 85 - 115 | <25 | ug | 5.8 (1) | 20 |
| 9461697 | Vanadium (V) | 2024/06/19 | 100 | 75 - 125 | 99 | 85 - 115 | <5.0 | ug | 1.1 (1) | 20 |
| 9461697 | Zinc (Zn) | 2024/06/19 | 100 | 75 - 125 | 99 | 85 - 115 | <5.0 | ug | 0.40 (1) | 20 |
| 9464603 | Total Mercury (Hg) | 2024/06/21 | 98 (2) | 80 - 120 | 101 | 90 - 110 | <0.002 | ug | NC (3) | 20 |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Duplicate Parent ID

(2) Matrix Spike Parent ID [ZJT940-01]

(3) Duplicate Parent ID [ZJT940-01]



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4H2394
Report Date: 2024/06/21

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

06-Jun-24 11:00
Gina Baybayan
C4H2394

SBS AIR-RmTmp

CAM FCD-01302 /3

ello Rd Toll Free: 1-800-668-0639
ntario ,L5N 2L8 Phone: (905) 817-5700
www.bvlabs.com Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / WSP E&I Canada
Project Manager: Ryan Fletcher
e-mail: See comments below for email list
Address: 19 Young Street,
Red Lake, ON, CA, P0V 2M0
Phone: 1 647-283-4638 Fax:
Sampled by: JM + CB + EM + AP

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Run Time | Dust Fall Opening (Inner Diameter) | Dust Fall Opening (Outer Diameter) | Silica | PM 10 | PM 2.5 | Dustfall | TSP | Metals | Mercury | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hi Vol Quartz 24020151 Bell Towers | | 44 | 5/6/2024 | 23.38 | | | | | | | X | X | X | | | | |
| Hi Vol Quartz 24022390 Bell Towers | | 44 | 5/12/2024 | 23.43 | | | | | | | X | X | X | | | | |
| Hi Vol Quartz 24022391 Bell Towers | | 44 | 5/18/2024 | 23.42 | | | | | | | X | X | X | | | | |
| Hi Vol Quartz 24022391 Bell Towers | | 44 | 5/24/2024 | 24.41 | | | | | | | X | X | X | | | | |
| Hi Vol Quartz 24012988 Bell Towers | | 44 | 5/30/2024 | 23.8 | | | | | | | X | X | X | | | | |
| Teardrop Dustfall May | | | May 1-June 1 | May 1-June 1 | | | | | | X | | | | | | | |
| Bell Towers Dustfall May | | | May 1-June 1 | May 1-June 1 | | | | | | X | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2303.2023D.100
Name: Kinross Project
PO #: EICAC026300307
BV Quote #:
BV Contact: Jade Browne

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; ryan.fletcher@wsp.com; airgroup@woodplc.com; emily.meek@kinross.com; aaron.peloquin@kinross.com; curtis.bloemberg@kinross.com***

Client Signature: EM
Affiliation: Kinross
Date/Time: June 3

Received by:
Affiliation:
Date/Time: Wed, 26/06 11:00

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions*

Your P.O. #: EICAC026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/06/21**
Report #: R8201728
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4H2394**
**Received: 2024/06/06, 11:00**

Sample Matrix: Filter
# Samples Received: 5

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | 5 | 2024/06/19 | 2024/06/21 | BRL SOP-00104 | EPA 7471B m |
| Total Metals on Hi-Vol Filter (6010Cmod) | 5 | 2024/06/18 | 2024/06/19 | CAM SOP-00408 | EPA 6010D m |
| Particulates on Filter (Method IO-3.1) | 5 | 2024/06/12 | 2024/06/12 | CAM SOP-00942 | Method IO-3.1 |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

Your P.O. #: EICAC026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: n/a

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/06/21**
Report #: R8201728
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4H2394**
**Received: 2024/06/06, 11:00**

Encryption Key

Cristina (Maria) Bacchus
Project Manager
21 Jun 2024 17:36:56

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Bureau Veritas Job #: C4H2394
Report Date: 2024/06/21

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | ZJT940 | ZJT941 | ZJT942 | ZJT943 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/05/06 | 2024/05/12 | 2024/05/18 | 2024/05/24 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | HI VOL QUARTZ 24020151 BELL TOWERS | HI VOL QUARTZ 24022390 BELL TOWERS | HI VOL QUARTZ 24022391 BELL TOWERS-2024/05/18 | HI VOL QUARTZ 24022391 BELL TOWERS-2024/05/24 | RDL | QC Batch |
| Particulate Weight on Filter | mg | 7.4 | 51.5 | 44.3 | 28.3 | 5.0 | 9450658 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

| Bureau Veritas ID | | ZJT944 | | |
|---|---|---|---|---|
| Sampling Date | | 2024/05/30 | | |
| COC Number | | n/a | | |
| | UNITS | HI VOL QUARTZ 24012988 BELL TOWERS | RDL | QC Batch |
| Particulate Weight on Filter | mg | 40.1 | 5.0 | 9450658 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4H2394
Report Date: 2024/06/21

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## MERCURY BY COLD VAPOUR AA (FILTER)

| Bureau Veritas ID | | ZJT940 | ZJT941 | ZJT942 | ZJT943 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/05/06 | 2024/05/12 | 2024/05/18 | 2024/05/24 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | HI VOL QUARTZ 24020151 BELL TOWERS | HI VOL QUARTZ 24022390 BELL TOWERS | HI VOL QUARTZ 24022391 BELL TOWERS-2024/05/18 | HI VOL QUARTZ 24022391 BELL TOWERS-2024/05/24 | RDL | QC Batch |
| **Metals** | | | | | | | |
| Total Mercury (Hg) | ug | <0.02 | <0.02 | <0.02 | <0.02 | 0.02 | 9464603 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

| Bureau Veritas ID | | ZJT944 | | |
|---|---|---|---|---|
| Sampling Date | | 2024/05/30 | | |
| COC Number | | n/a | | |
| | UNITS | HI VOL QUARTZ 24012988 BELL TOWERS | RDL | QC Batch |
| **Metals** | | | | |
| Total Mercury (Hg) | ug | <0.02 | 0.02 | 9464603 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4H2394
Report Date: 2024/06/21

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | ZJT940 | ZJT941 | ZJT942 | ZJT943 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/05/06 | 2024/05/12 | 2024/05/18 | 2024/05/24 | | |
| COC Number | | n/a | n/a | n/a | n/a | | |
| | UNITS | HI VOL QUARTZ 24020151 BELL TOWERS | HI VOL QUARTZ 24022390 BELL TOWERS | HI VOL QUARTZ 24022391 BELL TOWERS-2024/05/18 | HI VOL QUARTZ 24022391 BELL TOWERS-2024/05/24 | RDL | QC Batch |
| **Metals** | | | | | | | |
| Arsenic (As) | ug | <6.0 | <6.0 | <6.0 | <6.0 | 6.0 | 9461697 |
| Cadmium (Cd) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 9461697 |
| Chromium (Cr) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 9461697 |
| Cobalt (Co) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 9461697 |
| Copper (Cu) | ug | 76.4 | 78.8 | 67.0 | 107 | 5.0 | 9461697 |
| Iron (Fe) | ug | 113 | 158 | 64 | 54 | 50 | 9461697 |
| Lead (Pb) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 9461697 |
| Lithium (Li) | ug | <27 | <27 | <27 | <27 | 27 | 9461697 |
| Manganese (Mn) | ug | 3.0 | 35.3 | 6.5 | 3.4 | 1.0 | 9461697 |
| Nickel (Ni) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 9461697 |
| Selenium (Se) | ug | <10 | <10 | <10 | <10 | 10 | 9461697 |
| Sulphur (S) | ug | 260 | 540 | 347 | 334 | 25 | 9461697 |
| Vanadium (V) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 9461697 |
| Zinc (Zn) | ug | 8.6 | 36.5 | 8.9 | 38.7 | 5.0 | 9461697 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4H2394
Report Date: 2024/06/21

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## ELEMENTS BY ICP-AES (FILTER)

| **Bureau Veritas ID** | | ZJT944 | | |
|---|---|---|---|---|
| **Sampling Date** | | 2024/05/30 | | |
| **COC Number** | | n/a | | |
| | **UNITS** | **HI VOL QUARTZ 24012988 BELL TOWERS** | **RDL** | **QC Batch** |
| **Metals** | | | | |
| Arsenic (As) | ug | <6.0 | 6.0 | 9461697 |
| Cadmium (Cd) | ug | <2.0 | 2.0 | 9461697 |
| Chromium (Cr) | ug | <5.0 | 5.0 | 9461697 |
| Cobalt (Co) | ug | <2.0 | 2.0 | 9461697 |
| Copper (Cu) | ug | 66.4 | 5.0 | 9461697 |
| Iron (Fe) | ug | 213 | 50 | 9461697 |
| Lead (Pb) | ug | <3.0 | 3.0 | 9461697 |
| Lithium (Li) | ug | <27 | 27 | 9461697 |
| Manganese (Mn) | ug | 8.6 | 1.0 | 9461697 |
| Nickel (Ni) | ug | <3.0 | 3.0 | 9461697 |
| Selenium (Se) | ug | <10 | 10 | 9461697 |
| Sulphur (S) | ug | 284 | 25 | 9461697 |
| Vanadium (V) | ug | <5.0 | 5.0 | 9461697 |
| Zinc (Zn) | ug | 6.8 | 5.0 | 9461697 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4H2394
Report Date: 2024/06/21

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9461697 | MEN | Matrix Spike | Arsenic (As) | 2024/06/19 | | 100 | % | 75 - 125 |
| | | | Cadmium (Cd) | 2024/06/19 | | 102 | % | 75 - 125 |
| | | | Chromium (Cr) | 2024/06/19 | | 100 | % | 75 - 125 |
| | | | Cobalt (Co) | 2024/06/19 | | 99 | % | 75 - 125 |
| | | | Copper (Cu) | 2024/06/19 | | 101 | % | 75 - 125 |
| | | | Iron (Fe) | 2024/06/19 | | 101 | % | 75 - 125 |
| | | | Lead (Pb) | 2024/06/19 | | 99 | % | 75 - 125 |
| | | | Manganese (Mn) | 2024/06/19 | | 103 | % | 75 - 125 |
| | | | Nickel (Ni) | 2024/06/19 | | 99 | % | 75 - 125 |
| | | | Selenium (Se) | 2024/06/19 | | 106 | % | 75 - 125 |
| | | | Sulphur (S) | 2024/06/19 | | 110 | % | 75 - 125 |
| | | | Vanadium (V) | 2024/06/19 | | 100 | % | 75 - 125 |
| | | | Zinc (Zn) | 2024/06/19 | | 100 | % | 75 - 125 |
| 9461697 | MEN | RPD | Arsenic (As) | 2024/06/19 | 1.1 | | % | 20 |
| | | | Cadmium (Cd) | 2024/06/19 | 0.49 | | % | 20 |
| | | | Chromium (Cr) | 2024/06/19 | 0.80 | | % | 20 |
| | | | Cobalt (Co) | 2024/06/19 | 0.61 | | % | 20 |
| | | | Copper (Cu) | 2024/06/19 | 0.80 | | % | 20 |
| | | | Iron (Fe) | 2024/06/19 | 0.30 | | % | 20 |
| | | | Lead (Pb) | 2024/06/19 | 0.90 | | % | 20 |
| | | | Manganese (Mn) | 2024/06/19 | 0.097 | | % | 20 |
| | | | Nickel (Ni) | 2024/06/19 | 0.90 | | % | 20 |
| | | | Selenium (Se) | 2024/06/19 | 0.66 | | % | 20 |
| | | | Sulphur (S) | 2024/06/19 | 3.9 | | % | 20 |
| | | | Vanadium (V) | 2024/06/19 | 0.30 | | % | 20 |
| | | | Zinc (Zn) | 2024/06/19 | 0.20 | | % | 20 |
| | | | Arsenic (As) | 2024/06/19 | 0.20 | | % | 20 |
| | | | Cadmium (Cd) | 2024/06/19 | 0.49 | | % | 20 |
| | | | Chromium (Cr) | 2024/06/19 | 0.30 | | % | 20 |
| | | | Cobalt (Co) | 2024/06/19 | 0.41 | | % | 20 |
| | | | Copper (Cu) | 2024/06/19 | 0.60 | | % | 20 |
| | | | Iron (Fe) | 2024/06/19 | 0.70 | | % | 20 |
| | | | Lead (Pb) | 2024/06/19 | 0.31 | | % | 20 |
| | | | Manganese (Mn) | 2024/06/19 | 0.88 | | % | 20 |
| | | | Nickel (Ni) | 2024/06/19 | 0.80 | | % | 20 |
| | | | Selenium (Se) | 2024/06/19 | 1.7 | | % | 20 |
| | | | Sulphur (S) | 2024/06/19 | 1.1 | | % | 20 |
| | | | Vanadium (V) | 2024/06/19 | 1.1 | | % | 20 |
| | | | Zinc (Zn) | 2024/06/19 | 0.40 | | % | 20 |
| | | | Lithium (Li) | 2024/06/19 | NC | | % | 20 |
| | | | Sulphur (S) | 2024/06/19 | 5.8 | | % | 20 |
| 9461697 | MEN | Spiked Blank | Arsenic (As) | 2024/06/19 | | 102 | % | 85 - 115 |
| | | | Cadmium (Cd) | 2024/06/19 | | 101 | % | 85 - 115 |
| | | | Chromium (Cr) | 2024/06/19 | | 100 | % | 85 - 115 |
| | | | Cobalt (Co) | 2024/06/19 | | 99 | % | 85 - 115 |
| | | | Copper (Cu) | 2024/06/19 | | 100 | % | 85 - 115 |
| | | | Iron (Fe) | 2024/06/19 | | 100 | % | 85 - 115 |
| | | | Lead (Pb) | 2024/06/19 | | 98 | % | 85 - 115 |
| | | | Manganese (Mn) | 2024/06/19 | | 102 | % | 85 - 115 |
| | | | Nickel (Ni) | 2024/06/19 | | 99 | % | 85 - 115 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Selenium (Se) | 2024/06/19 | | 105 | % | 85 - 115 |
| | | | Sulphur (S) | 2024/06/19 | | 103 | % | 85 - 115 |
| | | | Vanadium (V) | 2024/06/19 | | 99 | % | 85 - 115 |
| | | | Zinc (Zn) | 2024/06/19 | | 99 | % | 85 - 115 |
| 9461697 | MEN | Method Blank | Arsenic (As) | 2024/06/19 | <6.0 | | ug | |
| | | | Cadmium (Cd) | 2024/06/19 | <2.0 | | ug | |
| | | | Chromium (Cr) | 2024/06/19 | <5.0 | | ug | |
| | | | Cobalt (Co) | 2024/06/19 | <2.0 | | ug | |
| | | | Copper (Cu) | 2024/06/19 | <5.0 | | ug | |
| | | | Iron (Fe) | 2024/06/19 | <50 | | ug | |
| | | | Lead (Pb) | 2024/06/19 | <3.0 | | ug | |
| | | | Lithium (Li) | 2024/06/19 | <27 | | ug | |
| | | | Manganese (Mn) | 2024/06/19 | <1.0 | | ug | |
| | | | Nickel (Ni) | 2024/06/19 | <3.0 | | ug | |
| | | | Selenium (Se) | 2024/06/19 | <10 | | ug | |
| | | | Sulphur (S) | 2024/06/19 | <25 | | ug | |
| | | | Vanadium (V) | 2024/06/19 | <5.0 | | ug | |
| | | | Zinc (Zn) | 2024/06/19 | <5.0 | | ug | |
| 9464603 | GR1 | Matrix Spike [ZJT940-01] | Total Mercury (Hg) | 2024/06/21 | | 98 | % | 80 - 120 |
| 9464603 | GR1 | RPD [ZJT940-01] | Total Mercury (Hg) | 2024/06/21 | 2.4 | | % | 20 |
| | | | Total Mercury (Hg) | 2024/06/21 | NC | | % | 20 |
| 9464603 | GR1 | Spiked Blank | Total Mercury (Hg) | 2024/06/21 | | 101 | % | 90 - 110 |
| 9464603 | GR1 | RPD | Total Mercury (Hg) | 2024/06/21 | 0.59 | | % | 20 |
| 9464603 | GR1 | Method Blank | Total Mercury (Hg) | 2024/06/21 | <0.002 | | ug | |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4H2394
Report Date: 2024/06/21

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: P104312CA001
Your Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your C.O.C. #: N/A

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/07/24**
Report #: R8247956
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4K4468**
**Received: 2024/07/05, 08:56**

Sample Matrix: Filter
# Samples Received: 5

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | 5 | 2024/07/19 | 2024/07/24 | BRL SOP-00104 | EPA 7471B m |
| Total Metals on Hi-Vol Filter (6010Cmod) | 5 | 2024/07/16 | 2024/07/17 | CAM SOP-00408 | EPA 6010D m |
| Particulates on Filter (Method IO-3.1) | 5 | 2024/07/05 | 2024/07/12 | CAM SOP-00942 | Method IO-3.1 |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: P104312CA001
Your Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your C.O.C. #: N/A

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/07/24**
Report #: R8247956
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4K4468**
**Received: 2024/07/05, 08:56**

Encryption Key

Cristina (Maria) Bacchus
Project Manager
24 Jul 2024 15:25:25

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4K4468
Report Date: 2024/07/24

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | ZQJ179 | ZQJ180 | ZQJ181 | ZQJ182 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/06/05 | 2024/06/11 | 2024/06/17 | 2024/06/23 | | |
| | UNITS | HI VOL QUARTZ 24012983 BELL TOWERS | HI VOL QUARTZ 24012984 BELL TOWERS | HI VOL QUARTZ 24012985 BELL TOWERS | HI VOL QUARTZ 24012986 BELL TOWERS | RDL | QC Batch |
| Particulate Weight on Filter | mg | 76.1 | 16.1 | 20.7 | 16.3 | 5.0 | 9511131 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

| Bureau Veritas ID | | ZQJ183 | | |
|---|---|---|---|---|
| Sampling Date | | 2024/06/29 | | |
| | UNITS | HI VOL QUARTZ 24012987 BELL TOWERS | RDL | QC Batch |
| Particulate Weight on Filter | mg | 7.1 | 5.0 | 9511131 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4K4468
Report Date: 2024/07/24

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## MERCURY BY COLD VAPOUR AA (FILTER)

| Bureau Veritas ID | | ZQJ179 | ZQJ180 | ZQJ181 | ZQJ182 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/06/05 | 2024/06/11 | 2024/06/17 | 2024/06/23 | | |
| | UNITS | HI VOL QUARTZ 24012983 BELL TOWERS | HI VOL QUARTZ 24012984 BELL TOWERS | HI VOL QUARTZ 24012985 BELL TOWERS | HI VOL QUARTZ 24012986 BELL TOWERS | RDL | QC Batch |
| **Metals** | | | | | | | |
| Total Mercury (Hg) | ug | <0.02 | <0.02 | <0.02 | <0.02 | 0.02 | 9525761 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

| Bureau Veritas ID | | ZQJ183 | | |
|---|---|---|---|---|
| Sampling Date | | 2024/06/29 | | |
| | UNITS | HI VOL QUARTZ 24012987 BELL TOWERS | RDL | QC Batch |
| **Metals** | | | | |
| Total Mercury (Hg) | ug | <0.02 | 0.02 | 9525761 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4K4468
Report Date: 2024/07/24

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | ZQJ179 | ZQJ180 | ZQJ181 | ZQJ181 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/06/05 | 2024/06/11 | 2024/06/17 | 2024/06/17 | | |
| | UNITS | HI VOL QUARTZ 24012983 BELL TOWERS | HI VOL QUARTZ 24012984 BELL TOWERS | HI VOL QUARTZ 24012985 BELL TOWERS | HI VOL QUARTZ 24012985 BELL TOWERS Lab-Dup | RDL | QC Batch |
| **Metals** | | | | | | | |
| Arsenic (As) | ug | <6.0 | <6.0 | <6.0 | <6.0 | 6.0 | 9516776 |
| Cadmium (Cd) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 9516776 |
| Chromium (Cr) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 9516776 |
| Cobalt (Co) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 9516776 |
| Copper (Cu) | ug | 71.2 | 29.2 | 101 | 104 | 5.0 | 9516776 |
| Iron (Fe) | ug | 205 | 55 | 170 | 166 | 50 | 9516776 |
| Lead (Pb) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 9516776 |
| Lithium (Li) | ug | <27 | <27 | <27 | <27 | 27 | 9516776 |
| Manganese (Mn) | ug | 10.3 | 3.0 | 7.6 | 7.7 | 1.0 | 9516776 |
| Nickel (Ni) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 9516776 |
| Selenium (Se) | ug | <10 | <10 | <10 | <10 | 10 | 9516776 |
| Sulphur (S) | ug | 433 | 248 | 214 | 221 | 25 | 9516776 |
| Vanadium (V) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 9516776 |
| Zinc (Zn) | ug | 10.1 | 6.8 | 8.7 | 8.6 | 5.0 | 9516776 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4K4468
Report Date: 2024/07/24

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | ZQJ182 | ZQJ183 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2024/06/23 | 2024/06/29 | | |
| | UNITS | HI VOL QUARTZ 24012986 BELL TOWERS | HI VOL QUARTZ 24012987 BELL TOWERS | RDL | QC Batch |
| **Metals** | | | | | |
| Arsenic (As) | ug | <6.0 | <6.0 | 6.0 | 9516776 |
| Cadmium (Cd) | ug | <2.0 | <2.0 | 2.0 | 9516776 |
| Chromium (Cr) | ug | <5.0 | <5.0 | 5.0 | 9516776 |
| Cobalt (Co) | ug | <2.0 | <2.0 | 2.0 | 9516776 |
| Copper (Cu) | ug | 105 | 85.6 | 5.0 | 9516776 |
| Iron (Fe) | ug | <50 | <50 | 50 | 9516776 |
| Lead (Pb) | ug | <3.0 | <3.0 | 3.0 | 9516776 |
| Lithium (Li) | ug | <27 | <27 | 27 | 9516776 |
| Manganese (Mn) | ug | 4.6 | 1.8 | 1.0 | 9516776 |
| Nickel (Ni) | ug | <3.0 | <3.0 | 3.0 | 9516776 |
| Selenium (Se) | ug | <10 | <10 | 10 | 9516776 |
| Sulphur (S) | ug | 301 | 136 | 25 | 9516776 |
| Vanadium (V) | ug | <5.0 | <5.0 | 5.0 | 9516776 |
| Zinc (Zn) | ug | 6.3 | <5.0 | 5.0 | 9516776 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4K4468
Report Date: 2024/07/24

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** ZQJ179 **Collected:** 2024/06/05
**Sample ID:** HI VOL QUARTZ 24012983 BELL TOWERS **Shipped:**
**Matrix:** Filter **Received:** 2024/07/05

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9525761 | 2024/07/19 | 2024/07/24 | Gagandeep Rai |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 9516776 | 2024/07/16 | 2024/07/17 | Medhat Nasr |
| Particulates on Filter (Method IO-3.1) | BAL | 9511131 | 2024/07/05 | 2024/07/12 | Muhammad Rahman |

**Bureau Veritas ID:** ZQJ180 **Collected:** 2024/06/11
**Sample ID:** HI VOL QUARTZ 24012984 BELL TOWERS **Shipped:**
**Matrix:** Filter **Received:** 2024/07/05

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9525761 | 2024/07/19 | 2024/07/24 | Gagandeep Rai |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 9516776 | 2024/07/16 | 2024/07/17 | Medhat Nasr |
| Particulates on Filter (Method IO-3.1) | BAL | 9511131 | 2024/07/05 | 2024/07/12 | Muhammad Rahman |

**Bureau Veritas ID:** ZQJ181 **Collected:** 2024/06/17
**Sample ID:** HI VOL QUARTZ 24012985 BELL TOWERS **Shipped:**
**Matrix:** Filter **Received:** 2024/07/05

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9525761 | 2024/07/19 | 2024/07/24 | Gagandeep Rai |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 9516776 | 2024/07/16 | 2024/07/17 | Medhat Nasr |
| Particulates on Filter (Method IO-3.1) | BAL | 9511131 | 2024/07/05 | 2024/07/12 | Muhammad Rahman |

**Bureau Veritas ID:** ZQJ181 Dup **Collected:** 2024/06/17
**Sample ID:** HI VOL QUARTZ 24012985 BELL TOWERS **Shipped:**
**Matrix:** Filter **Received:** 2024/07/05

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 9516776 | 2024/07/16 | 2024/07/17 | Medhat Nasr |

**Bureau Veritas ID:** ZQJ182 **Collected:** 2024/06/23
**Sample ID:** HI VOL QUARTZ 24012986 BELL TOWERS **Shipped:**
**Matrix:** Filter **Received:** 2024/07/05

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9525761 | 2024/07/19 | 2024/07/24 | Gagandeep Rai |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 9516776 | 2024/07/16 | 2024/07/17 | Medhat Nasr |
| Particulates on Filter (Method IO-3.1) | BAL | 9511131 | 2024/07/05 | 2024/07/12 | Muhammad Rahman |

**Bureau Veritas ID:** ZQJ183 **Collected:** 2024/06/29
**Sample ID:** HI VOL QUARTZ 24012987 BELL TOWERS **Shipped:**
**Matrix:** Filter **Received:** 2024/07/05

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9525761 | 2024/07/19 | 2024/07/24 | Gagandeep Rai |



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4K4468
Report Date: 2024/07/24

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** ZQJ183
**Sample ID:** HI VOL QUARTZ 24012987 BELL TOWERS
**Matrix:** Filter

**Collected:** 2024/06/29
**Shipped:**
**Received:** 2024/07/05

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 9516776 | 2024/07/16 | 2024/07/17 | Medhat Nasr |
| Particulates on Filter (Method IO-3.1) | BAL | 9511131 | 2024/07/05 | 2024/07/12 | Muhammad Rahman |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT



| | | | Matrix Spike | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 9516776 | Arsenic (As) | 2024/07/17 | 97 (1) | 75 - 125 | 97 | 85 - 115 | <6.0 | ug | NC (3) | 20 |
| 9516776 | Cadmium (Cd) | 2024/07/17 | 97 (1) | 75 - 125 | 98 | 85 - 115 | <2.0 | ug | NC (3) | 20 |
| 9516776 | Chromium (Cr) | 2024/07/17 | 91 (1) | 75 - 125 | 95 | 85 - 115 | <5.0 | ug | NC (3) | 20 |
| 9516776 | Cobalt (Co) | 2024/07/17 | 94 (1) | 75 - 125 | 95 | 85 - 115 | <2.0 | ug | NC (3) | 20 |
| 9516776 | Copper (Cu) | 2024/07/17 | 94 (1) | 75 - 125 | 96 | 85 - 115 | <5.0 | ug | 2.5 (3) | 20 |
| 9516776 | Iron (Fe) | 2024/07/17 | 94 (1) | 75 - 125 | 95 | 85 - 115 | <50 | ug | 2.5 (3) | 20 |
| 9516776 | Lead (Pb) | 2024/07/17 | 95 (1) | 75 - 125 | 96 | 85 - 115 | <3.0 | ug | NC (3) | 20 |
| 9516776 | Lithium (Li) | 2024/07/17 | | | | | <27 | ug | NC (3) | 20 |
| 9516776 | Manganese (Mn) | 2024/07/17 | 93 (1) | 75 - 125 | 94 | 85 - 115 | <1.0 | ug | 1.2 (3) | 20 |
| 9516776 | Nickel (Ni) | 2024/07/17 | 96 (1) | 75 - 125 | 97 | 85 - 115 | <3.0 | ug | NC (3) | 20 |
| 9516776 | Selenium (Se) | 2024/07/17 | 99 (1) | 75 - 125 | 99 | 85 - 115 | <10 | ug | NC (3) | 20 |
| 9516776 | Sulphur (S) | 2024/07/17 | 101 (1) | 75 - 125 | 98 | 85 - 115 | <25 | ug | 3.4 (3) | 20 |
| 9516776 | Vanadium (V) | 2024/07/17 | 92 (1) | 75 - 125 | 93 | 85 - 115 | <5.0 | ug | NC (3) | 20 |
| 9516776 | Zinc (Zn) | 2024/07/17 | 96 (1) | 75 - 125 | 98 | 85 - 115 | <5.0 | ug | 1.6 (3) | 20 |
| 9525761 | Total Mercury (Hg) | 2024/07/24 | 100 | 80 - 120 | 103 | 90 - 110 | <0.002 | ug | NC (2) | 20 |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Matrix Spike Parent ID [ZQJ181-01]

(2) Duplicate Parent ID

(3) Duplicate Parent ID [ZQJ181-01]



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4K4468
Report Date: 2024/07/24

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

05-Jul-24 08:56
Ashton Gibson
C4K4468
RPK AIR-RmTmp

CAM FCD-01302 /3

,L5N 2L8
Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777
www.bvlabs.com

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / WSP Canada Inc.
Project Manager: Ryan Fletcher
e-mail: See comments below for email list
Address: 19 Young Street,
Red Lake, ON, CA, P0V 2M0
Phone: 1 647-283-4638 Fax:
Sampled by: JM + CB + EM + AP

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Run Time | Dust Fall Opening (Inner Diameter) | Dust Fall Opening (Outer Diameter) | Silica | PM 10 | PM 2.5 | Dustfall | TSP | Metals | Mercury | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hi Vol Quartz 24012983 Bell Towers | | | 6/5/2024 | 23.94 | | | | | | | X | X | X | | | | | |
| Hi Vol Quartz 24012984 Bell Towers | | | 6/11/2024 | 23.52 | | | | | | | X | X | X | | | | | |
| Hi Vol Quartz 24012985 Bell Towers | | | 6/17/2024 | 23.2 | | | | | | | X | X | X | | | | | |
| Hi Vol Quartz 24012986 Bell Towers | | | 6/23/2024 | 23.4 | | | | | | | X | X | X | | | | | |
| Hi Vol Quartz 24012987 Bell Towers | | | 6/29/2024 | 23.99 | | | | | | | X | X | X | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: CA0031272.9242
Name: Kinross Project
PO #: P104312CA001
BV Quote #:
BV Contact: Jade Browne

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; ryan.fletcher@wsp.com; airgroup@woodplc.com; emily.meek@kinross.com; aaron.peloquin@kinross.com; curtis.bloemberg@kinross.com***

Client Signature: JM
Affiliation: Kinross
Date/Time: 7/2/2024

Received by:
Affiliation:
Date/Time: 2024/07/05 08:56

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions*

Your P.O. #: P104312CA001
Your Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your C.O.C. #: N/A

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/07/24**
Report #: R8247956
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4K4468**
**Received: 2024/07/05, 08:56**

Sample Matrix: Filter
# Samples Received: 5

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | 5 | 2024/07/19 | 2024/07/24 | BRL SOP-00104 | EPA 7471B m |
| Total Metals on Hi-Vol Filter (6010Cmod) | 5 | 2024/07/16 | 2024/07/17 | CAM SOP-00408 | EPA 6010D m |
| Particulates on Filter (Method IO-3.1) | 5 | 2024/07/05 | 2024/07/12 | CAM SOP-00942 | Method IO-3.1 |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

Your P.O. #: P104312CA001
Your Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your C.O.C. #: N/A

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/07/24**
Report #: R8247956
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4K4468**
**Received: 2024/07/05, 08:56**

Encryption Key

Cristina (Maria) Bacchus
Project Manager
24 Jul 2024 15:25:40

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Bureau Veritas Job #: C4K4468
Report Date: 2024/07/24

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | ZQJ179 | ZQJ180 | ZQJ181 | ZQJ182 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/06/05 | 2024/06/11 | 2024/06/17 | 2024/06/23 | | |
| COC Number | | N/A | N/A | N/A | N/A | | |
| | UNITS | HI VOL QUARTZ 24012983 BELL TOWERS | HI VOL QUARTZ 24012984 BELL TOWERS | HI VOL QUARTZ 24012985 BELL TOWERS | HI VOL QUARTZ 24012986 BELL TOWERS | RDL | QC Batch |
| Particulate Weight on Filter | mg | 76.1 | 16.1 | 20.7 | 16.3 | 5.0 | 9511131 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

| Bureau Veritas ID | | ZQJ183 | | |
|---|---|---|---|---|
| Sampling Date | | 2024/06/29 | | |
| COC Number | | N/A | | |
| | UNITS | HI VOL QUARTZ 24012987 BELL TOWERS | RDL | QC Batch |
| Particulate Weight on Filter | mg | 7.1 | 5.0 | 9511131 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4K4468
Report Date: 2024/07/24

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## MERCURY BY COLD VAPOUR AA (FILTER)

| Bureau Veritas ID | | ZQJ179 | ZQJ180 | ZQJ181 | ZQJ182 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/06/05 | 2024/06/11 | 2024/06/17 | 2024/06/23 | | |
| COC Number | | N/A | N/A | N/A | N/A | | |
| | UNITS | HI VOL QUARTZ 24012983 BELL TOWERS | HI VOL QUARTZ 24012984 BELL TOWERS | HI VOL QUARTZ 24012985 BELL TOWERS | HI VOL QUARTZ 24012986 BELL TOWERS | RDL | QC Batch |
| **Metals** | | | | | | | |
| Total Mercury (Hg) | ug | <0.02 | <0.02 | <0.02 | <0.02 | 0.02 | 9525761 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

| Bureau Veritas ID | | ZQJ183 | | |
|---|---|---|---|---|
| Sampling Date | | 2024/06/29 | | |
| COC Number | | N/A | | |
| | UNITS | HI VOL QUARTZ 24012987 BELL TOWERS | RDL | QC Batch |
| **Metals** | | | | |
| Total Mercury (Hg) | ug | <0.02 | 0.02 | 9525761 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4K4468
Report Date: 2024/07/24

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | ZQJ179 | ZQJ180 | ZQJ181 | ZQJ182 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/06/05 | 2024/06/11 | 2024/06/17 | 2024/06/23 | | |
| COC Number | | N/A | N/A | N/A | N/A | | |
| | UNITS | HI VOL QUARTZ 24012983 BELL TOWERS | HI VOL QUARTZ 24012984 BELL TOWERS | HI VOL QUARTZ 24012985 BELL TOWERS | HI VOL QUARTZ 24012986 BELL TOWERS | RDL | QC Batch |
| **Metals** | | | | | | | |
| Arsenic (As) | ug | <6.0 | <6.0 | <6.0 | <6.0 | 6.0 | 9516776 |
| Cadmium (Cd) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 9516776 |
| Chromium (Cr) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 9516776 |
| Cobalt (Co) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 9516776 |
| Copper (Cu) | ug | 71.2 | 29.2 | 101 | 105 | 5.0 | 9516776 |
| Iron (Fe) | ug | 205 | 55 | 170 | <50 | 50 | 9516776 |
| Lead (Pb) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 9516776 |
| Lithium (Li) | ug | <27 | <27 | <27 | <27 | 27 | 9516776 |
| Manganese (Mn) | ug | 10.3 | 3.0 | 7.6 | 4.6 | 1.0 | 9516776 |
| Nickel (Ni) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 9516776 |
| Selenium (Se) | ug | <10 | <10 | <10 | <10 | 10 | 9516776 |
| Sulphur (S) | ug | 433 | 248 | 214 | 301 | 25 | 9516776 |
| Vanadium (V) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 9516776 |
| Zinc (Zn) | ug | 10.1 | 6.8 | 8.7 | 6.3 | 5.0 | 9516776 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4K4468
Report Date: 2024/07/24

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | ZQJ183 | | |
|---|---|---|---|---|
| Sampling Date | | 2024/06/29 | | |
| COC Number | | N/A | | |
| | UNITS | HI VOL QUARTZ 24012987 BELL TOWERS | RDL | QC Batch |
| **Metals** | | | | |
| Arsenic (As) | ug | <6.0 | 6.0 | 9516776 |
| Cadmium (Cd) | ug | <2.0 | 2.0 | 9516776 |
| Chromium (Cr) | ug | <5.0 | 5.0 | 9516776 |
| Cobalt (Co) | ug | <2.0 | 2.0 | 9516776 |
| Copper (Cu) | ug | 85.6 | 5.0 | 9516776 |
| Iron (Fe) | ug | <50 | 50 | 9516776 |
| Lead (Pb) | ug | <3.0 | 3.0 | 9516776 |
| Lithium (Li) | ug | <27 | 27 | 9516776 |
| Manganese (Mn) | ug | 1.8 | 1.0 | 9516776 |
| Nickel (Ni) | ug | <3.0 | 3.0 | 9516776 |
| Selenium (Se) | ug | <10 | 10 | 9516776 |
| Sulphur (S) | ug | 136 | 25 | 9516776 |
| Vanadium (V) | ug | <5.0 | 5.0 | 9516776 |
| Zinc (Zn) | ug | <5.0 | 5.0 | 9516776 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## GENERAL COMMENTS

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4K4468
Report Date: 2024/07/24

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9516776 | MEN | Matrix Spike [ZQJ181-01] | Arsenic (As) | 2024/07/17 | | 97 | % | 75 - 125 |
| | | | Cadmium (Cd) | 2024/07/17 | | 97 | % | 75 - 125 |
| | | | Chromium (Cr) | 2024/07/17 | | 91 | % | 75 - 125 |
| | | | Cobalt (Co) | 2024/07/17 | | 94 | % | 75 - 125 |
| | | | Copper (Cu) | 2024/07/17 | | 94 | % | 75 - 125 |
| | | | Iron (Fe) | 2024/07/17 | | 94 | % | 75 - 125 |
| | | | Lead (Pb) | 2024/07/17 | | 95 | % | 75 - 125 |
| | | | Manganese (Mn) | 2024/07/17 | | 93 | % | 75 - 125 |
| | | | Nickel (Ni) | 2024/07/17 | | 96 | % | 75 - 125 |
| | | | Selenium (Se) | 2024/07/17 | | 99 | % | 75 - 125 |
| | | | Sulphur (S) | 2024/07/17 | | 101 | % | 75 - 125 |
| | | | Vanadium (V) | 2024/07/17 | | 92 | % | 75 - 125 |
| | | | Zinc (Zn) | 2024/07/17 | | 96 | % | 75 - 125 |
| 9516776 | MEN | RPD [ZQJ181-01] | Arsenic (As) | 2024/07/17 | 1.4 | | % | 20 |
| | | | Cadmium (Cd) | 2024/07/17 | 0.31 | | % | 20 |
| | | | Chromium (Cr) | 2024/07/17 | 0.44 | | % | 20 |
| | | | Cobalt (Co) | 2024/07/17 | 0.64 | | % | 20 |
| | | | Copper (Cu) | 2024/07/17 | 2.5 | | % | 20 |
| | | | Iron (Fe) | 2024/07/17 | 0.64 | | % | 20 |
| | | | Lead (Pb) | 2024/07/17 | 0.11 | | % | 20 |
| | | | Manganese (Mn) | 2024/07/17 | 0.43 | | % | 20 |
| | | | Nickel (Ni) | 2024/07/17 | 0 | | % | 20 |
| | | | Selenium (Se) | 2024/07/17 | 0.10 | | % | 20 |
| | | | Sulphur (S) | 2024/07/17 | 2.4 | | % | 20 |
| | | | Vanadium (V) | 2024/07/17 | 0.33 | | % | 20 |
| | | | Zinc (Zn) | 2024/07/17 | 0.31 | | % | 20 |
| | | | Arsenic (As) | 2024/07/17 | NC | | % | 20 |
| | | | Cadmium (Cd) | 2024/07/17 | NC | | % | 20 |
| | | | Chromium (Cr) | 2024/07/17 | NC | | % | 20 |
| | | | Cobalt (Co) | 2024/07/17 | NC | | % | 20 |
| | | | Copper (Cu) | 2024/07/17 | 2.5 | | % | 20 |
| | | | Iron (Fe) | 2024/07/17 | 2.5 | | % | 20 |
| | | | Lead (Pb) | 2024/07/17 | NC | | % | 20 |
| | | | Lithium (Li) | 2024/07/17 | NC | | % | 20 |
| | | | Manganese (Mn) | 2024/07/17 | 1.2 | | % | 20 |
| | | | Nickel (Ni) | 2024/07/17 | NC | | % | 20 |
| | | | Selenium (Se) | 2024/07/17 | NC | | % | 20 |
| | | | Sulphur (S) | 2024/07/17 | 3.4 | | % | 20 |
| | | | Vanadium (V) | 2024/07/17 | NC | | % | 20 |
| | | | Zinc (Zn) | 2024/07/17 | 1.6 | | % | 20 |
| 9516776 | MEN | Spiked Blank | Arsenic (As) | 2024/07/17 | | 97 | % | 85 - 115 |
| | | | Cadmium (Cd) | 2024/07/17 | | 98 | % | 85 - 115 |
| | | | Chromium (Cr) | 2024/07/17 | | 95 | % | 85 - 115 |
| | | | Cobalt (Co) | 2024/07/17 | | 95 | % | 85 - 115 |
| | | | Copper (Cu) | 2024/07/17 | | 96 | % | 85 - 115 |
| | | | Iron (Fe) | 2024/07/17 | | 95 | % | 85 - 115 |
| | | | Lead (Pb) | 2024/07/17 | | 96 | % | 85 - 115 |
| | | | Manganese (Mn) | 2024/07/17 | | 94 | % | 85 - 115 |
| | | | Nickel (Ni) | 2024/07/17 | | 97 | % | 85 - 115 |
| | | | Selenium (Se) | 2024/07/17 | | 99 | % | 85 - 115 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Sulphur (S) | 2024/07/17 | | 98 | % | 85 - 115 |
| | | | Vanadium (V) | 2024/07/17 | | 93 | % | 85 - 115 |
| | | | Zinc (Zn) | 2024/07/17 | | 98 | % | 85 - 115 |
| 9516776 | MEN | RPD | Arsenic (As) | 2024/07/17 | 2.0 | | % | 20 |
| | | | Cadmium (Cd) | 2024/07/17 | 1.5 | | % | 20 |
| | | | Chromium (Cr) | 2024/07/17 | 4.8 | | % | 20 |
| | | | Cobalt (Co) | 2024/07/17 | 1.3 | | % | 20 |
| | | | Copper (Cu) | 2024/07/17 | 1.5 | | % | 20 |
| | | | Iron (Fe) | 2024/07/17 | 1.3 | | % | 20 |
| | | | Lead (Pb) | 2024/07/17 | 1.9 | | % | 20 |
| | | | Manganese (Mn) | 2024/07/17 | 1.6 | | % | 20 |
| | | | Nickel (Ni) | 2024/07/17 | 1.5 | | % | 20 |
| | | | Selenium (Se) | 2024/07/17 | 0.20 | | % | 20 |
| | | | Sulphur (S) | 2024/07/17 | 1.3 | | % | 20 |
| | | | Vanadium (V) | 2024/07/17 | 0.43 | | % | 20 |
| | | | Zinc (Zn) | 2024/07/17 | 2.1 | | % | 20 |
| 9516776 | MEN | Method Blank | Arsenic (As) | 2024/07/17 | <6.0 | | ug | |
| | | | Cadmium (Cd) | 2024/07/17 | <2.0 | | ug | |
| | | | Chromium (Cr) | 2024/07/17 | <5.0 | | ug | |
| | | | Cobalt (Co) | 2024/07/17 | <2.0 | | ug | |
| | | | Copper (Cu) | 2024/07/17 | <5.0 | | ug | |
| | | | Iron (Fe) | 2024/07/17 | <50 | | ug | |
| | | | Lead (Pb) | 2024/07/17 | <3.0 | | ug | |
| | | | Lithium (Li) | 2024/07/17 | <27 | | ug | |
| | | | Manganese (Mn) | 2024/07/17 | <1.0 | | ug | |
| | | | Nickel (Ni) | 2024/07/17 | <3.0 | | ug | |
| | | | Selenium (Se) | 2024/07/17 | <10 | | ug | |
| | | | Sulphur (S) | 2024/07/17 | <25 | | ug | |
| | | | Vanadium (V) | 2024/07/17 | <5.0 | | ug | |
| | | | Zinc (Zn) | 2024/07/17 | <5.0 | | ug | |
| 9525761 | GR1 | Matrix Spike | Total Mercury (Hg) | 2024/07/24 | | 100 | % | 80 - 120 |
| 9525761 | GR1 | RPD | Total Mercury (Hg) | 2024/07/24 | 0.90 | | % | 20 |
| | | | Total Mercury (Hg) | 2024/07/24 | 1.5 | | % | 20 |
| | | | Total Mercury (Hg) | 2024/07/24 | NC | | % | 20 |
| 9525761 | GR1 | Spiked Blank | Total Mercury (Hg) | 2024/07/24 | | 103 | % | 90 - 110 |
| 9525761 | GR1 | Method Blank | Total Mercury (Hg) | 2024/07/24 | <0.002 | | ug | |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4K4468
Report Date: 2024/07/24

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: P104312CA001
Your Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your C.O.C. #: N/A

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/09/24**
Report #: R8332713
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4R9831**
**Received: 2024/09/09, 09:58**

Sample Matrix: Filter
# Samples Received: 8

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | 8 | 2024/09/19 | 2024/09/23 | BRL SOP-00104 | EPA 7471B m |
| Total Metals on Hi-Vol Filter (6010Cmod) | 8 | 2024/09/18 | 2024/09/23 | CAM SOP-00408 | EPA 6010D m |
| Particulates on Filter (Method IO-3.1) | 8 | 2024/09/05 | 2024/09/16 | CAM SOP-00942 | Method IO-3.1 |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: P104312CA001
Your Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your C.O.C. #: N/A

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/09/24**
Report #: R8332713
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4R9831**
**Received: 2024/09/09, 09:58**

Encryption Key

Cristina (Maria) Bacchus
Project Manager
24 Sep 2024 11:22:19

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4R9831
Report Date: 2024/09/24

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## RESULTS OF ANALYSES OF FILTER

| Bureau Veritas ID | | ACEY82 | ACEY83 | ACEY84 | ACEY85 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/07/05 | 2024/07/11 | 2024/07/17 | 2024/07/23 | | |
| | UNITS | BELL TOWERS JULY 5 24040557 | BELL TOWERS JULY 11 24040558 | BELL TOWERS JULY 17 24040560 | BELL TOWERS JULY 23 24040561 | RDL | QC Batch |
| Particulate Weight on Filter | mg | 17.8 | 40.6 | <5.0 | 8.3 | 5.0 | 9642774 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

| Bureau Veritas ID | | ACEY86 | ACEY87 | ACEY88 | ACEY89 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/07/29 | 2024/08/04 | 2024/08/10 | 2024/08/16 | | |
| | UNITS | BELL TOWERS JULY 29 24040562 | BELL TOWERS AUG 4 24040563 | BELL TOWERS AUG 10 24022393 | BELL TOWERS AUG 16 24022394 | RDL | QC Batch |
| Particulate Weight on Filter | mg | 25.9 | 10.1 | 11.2 | 23.4 | 5.0 | 9642774 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4R9831
Report Date: 2024/09/24

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## MERCURY BY COLD VAPOUR AA (FILTER)

| Bureau Veritas ID | | ACEY82 | ACEY83 | ACEY83 | ACEY84 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/07/05 | 2024/07/11 | 2024/07/11 | 2024/07/17 | | |
| | UNITS | BELL TOWERS JULY 5 24040557 | BELL TOWERS JULY 11 24040558 | BELL TOWERS JULY 11 24040558 Lab-Dup | BELL TOWERS JULY 17 24040560 | RDL | QC Batch |
| **Metals** | | | | | | | |
| Total Mercury (Hg) | ug | <0.02 | <0.02 | <0.02 | <0.02 | 0.02 | 9648672 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

| Bureau Veritas ID | | ACEY85 | ACEY86 | ACEY87 | ACEY88 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/07/23 | 2024/07/29 | 2024/08/04 | 2024/08/10 | | |
| | UNITS | BELL TOWERS JULY 23 24040561 | BELL TOWERS JULY 29 24040562 | BELL TOWERS AUG 4 24040563 | BELL TOWERS AUG 10 24022393 | RDL | QC Batch |
| **Metals** | | | | | | | |
| Total Mercury (Hg) | ug | <0.02 | <0.02 | <0.02 | <0.02 | 0.02 | 9648672 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

| Bureau Veritas ID | | ACEY89 | | |
|---|---|---|---|---|
| Sampling Date | | 2024/08/16 | | |
| | UNITS | BELL TOWERS AUG 16 24022394 | RDL | QC Batch |
| **Metals** | | | | |
| Total Mercury (Hg) | ug | <0.02 | 0.02 | 9648672 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4R9831
Report Date: 2024/09/24

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | ACEY82 | ACEY83 | ACEY84 | ACEY85 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/07/05 | 2024/07/11 | 2024/07/17 | 2024/07/23 | | |
| | UNITS | BELL TOWERS JULY 5 24040557 | BELL TOWERS JULY 11 24040558 | BELL TOWERS JULY 17 24040560 | BELL TOWERS JULY 23 24040561 | RDL | QC Batch |
| **Metals** | | | | | | | |
| Arsenic (As) | ug | <6.0 | <6.0 | <6.0 | <6.0 | 6.0 | 9645374 |
| Cadmium (Cd) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 9645374 |
| Chromium (Cr) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 9645374 |
| Cobalt (Co) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 9645374 |
| Copper (Cu) | ug | 91.1 | 80.6 | 94.0 | 143 | 5.0 | 9645374 |
| Iron (Fe) | ug | <50 | 201 | <50 | 63 | 50 | 9645374 |
| Lead (Pb) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 9645374 |
| Lithium (Li) | ug | <27 | <27 | <27 | <27 | 27 | 9645374 |
| Manganese (Mn) | ug | 2.1 | 14.3 | 1.4 | 1.7 | 1.0 | 9645374 |
| Nickel (Ni) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 9645374 |
| Selenium (Se) | ug | <10 | <10 | <10 | <10 | 10 | 9645374 |
| Sulphur (S) | ug | 205 | 450 | 131 | 139 | 25 | 9645374 |
| Vanadium (V) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 9645374 |
| Zinc (Zn) | ug | 15.2 | 22.7 | 13.6 | 21.6 | 5.0 | 9645374 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Bureau Veritas Job #: C4R9831
Report Date: 2024/09/24

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## ELEMENTS BY ICP-AES (FILTER)

| Bureau Veritas ID | | ACEY86 | ACEY87 | ACEY88 | ACEY89 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2024/07/29 | 2024/08/04 | 2024/08/10 | 2024/08/16 | | |
| | UNITS | BELL TOWERS JULY 29 24040562 | BELL TOWERS AUG 4 24040563 | BELL TOWERS AUG 10 24022393 | BELL TOWERS AUG 16 24022394 | RDL | QC Batch |
| **Metals** | | | | | | | |
| Arsenic (As) | ug | <6.0 | <6.0 | <6.0 | <6.0 | 6.0 | 9645374 |
| Cadmium (Cd) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 9645374 |
| Chromium (Cr) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 9645374 |
| Cobalt (Co) | ug | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 9645374 |
| Copper (Cu) | ug | 109 | 101 | 97.2 | 102 | 5.0 | 9645374 |
| Iron (Fe) | ug | 73 | <50 | <50 | 74 | 50 | 9645374 |
| Lead (Pb) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 9645374 |
| Lithium (Li) | ug | <27 | <27 | <27 | <27 | 27 | 9645374 |
| Manganese (Mn) | ug | 4.4 | 2.0 | 1.4 | 3.1 | 1.0 | 9645374 |
| Nickel (Ni) | ug | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 9645374 |
| Selenium (Se) | ug | <10 | <10 | <10 | <10 | 10 | 9645374 |
| Sulphur (S) | ug | 392 | 116 | 208 | 501 | 25 | 9645374 |
| Vanadium (V) | ug | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 9645374 |
| Zinc (Zn) | ug | 20.1 | 12.2 | 11.9 | 20.9 | 5.0 | 9645374 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4R9831
Report Date: 2024/09/24

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** ACEY82 **Collected:** 2024/07/05
**Sample ID:** BELL TOWERS JULY 5 24040557 **Shipped:**
**Matrix:** Filter **Received:** 2024/09/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9648672 | 2024/09/19 | 2024/09/23 | Aswathy Neduveli Suresh |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 9645374 | 2024/09/18 | 2024/09/23 | Jolly John |
| Particulates on Filter (Method IO-3.1) | BAL | 9642774 | 2024/09/05 | 2024/09/16 | Muhammad Rahman |

**Bureau Veritas ID:** ACEY83 **Collected:** 2024/07/11
**Sample ID:** BELL TOWERS JULY 11 24040558 **Shipped:**
**Matrix:** Filter **Received:** 2024/09/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9648672 | 2024/09/19 | 2024/09/23 | Aswathy Neduveli Suresh |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 9645374 | 2024/09/18 | 2024/09/23 | Jolly John |
| Particulates on Filter (Method IO-3.1) | BAL | 9642774 | 2024/09/05 | 2024/09/16 | Muhammad Rahman |

**Bureau Veritas ID:** ACEY83 Dup **Collected:** 2024/07/11
**Sample ID:** BELL TOWERS JULY 11 24040558 **Shipped:**
**Matrix:** Filter **Received:** 2024/09/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9648672 | 2024/09/19 | 2024/09/23 | Aswathy Neduveli Suresh |

**Bureau Veritas ID:** ACEY84 **Collected:** 2024/07/17
**Sample ID:** BELL TOWERS JULY 17 24040560 **Shipped:**
**Matrix:** Filter **Received:** 2024/09/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9648672 | 2024/09/19 | 2024/09/23 | Aswathy Neduveli Suresh |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 9645374 | 2024/09/18 | 2024/09/23 | Jolly John |
| Particulates on Filter (Method IO-3.1) | BAL | 9642774 | 2024/09/05 | 2024/09/16 | Muhammad Rahman |

**Bureau Veritas ID:** ACEY85 **Collected:** 2024/07/23
**Sample ID:** BELL TOWERS JULY 23 24040561 **Shipped:**
**Matrix:** Filter **Received:** 2024/09/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9648672 | 2024/09/19 | 2024/09/23 | Aswathy Neduveli Suresh |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 9645374 | 2024/09/18 | 2024/09/23 | Jolly John |
| Particulates on Filter (Method IO-3.1) | BAL | 9642774 | 2024/09/05 | 2024/09/16 | Muhammad Rahman |

**Bureau Veritas ID:** ACEY86 **Collected:** 2024/07/29
**Sample ID:** BELL TOWERS JULY 29 24040562 **Shipped:**
**Matrix:** Filter **Received:** 2024/09/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9648672 | 2024/09/19 | 2024/09/23 | Aswathy Neduveli Suresh |



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4R9831
Report Date: 2024/09/24

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** ACEY86 **Collected:** 2024/07/29
**Sample ID:** BELL TOWERS JULY 29 24040562 **Shipped:**
**Matrix:** Filter **Received:** 2024/09/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 9645374 | 2024/09/18 | 2024/09/23 | Jolly John |
| Particulates on Filter (Method IO-3.1) | BAL | 9642774 | 2024/09/05 | 2024/09/16 | Muhammad Rahman |

**Bureau Veritas ID:** ACEY87 **Collected:** 2024/08/04
**Sample ID:** BELL TOWERS AUG 4 24040563 **Shipped:**
**Matrix:** Filter **Received:** 2024/09/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9648672 | 2024/09/19 | 2024/09/23 | Aswathy Neduveli Suresh |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 9645374 | 2024/09/18 | 2024/09/23 | Jolly John |
| Particulates on Filter (Method IO-3.1) | BAL | 9642774 | 2024/09/05 | 2024/09/16 | Muhammad Rahman |

**Bureau Veritas ID:** ACEY88 **Collected:** 2024/08/10
**Sample ID:** BELL TOWERS AUG 10 24022393 **Shipped:**
**Matrix:** Filter **Received:** 2024/09/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9648672 | 2024/09/19 | 2024/09/23 | Aswathy Neduveli Suresh |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 9645374 | 2024/09/18 | 2024/09/23 | Jolly John |
| Particulates on Filter (Method IO-3.1) | BAL | 9642774 | 2024/09/05 | 2024/09/16 | Muhammad Rahman |

**Bureau Veritas ID:** ACEY89 **Collected:** 2024/08/16
**Sample ID:** BELL TOWERS AUG 16 24022394 **Shipped:**
**Matrix:** Filter **Received:** 2024/09/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Mercury on Hi-Vol Filter (7471Bmod) | CV/AA | 9648672 | 2024/09/19 | 2024/09/23 | Aswathy Neduveli Suresh |
| Total Metals on Hi-Vol Filter (6010Cmod) | ICPX | 9645374 | 2024/09/18 | 2024/09/23 | Jolly John |
| Particulates on Filter (Method IO-3.1) | BAL | 9642774 | 2024/09/05 | 2024/09/16 | Muhammad Rahman |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

Sample ACEY84 [BELL TOWERS JULY 17 24040560] : Filter torn.

Sample ACEY87 [BELL TOWERS AUG 4 24040563] : Filter torn.

Sample ACEY89 [BELL TOWERS AUG 16 24022394] : Filter torn.

**Results relate only to the items tested.**



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# QUALITY ASSURANCE REPORT



| | | | Matrix Spike | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 9645374 | Arsenic (As) | 2024/09/23 | 101 | 75 - 125 | 104 | 85 - 115 | <6.0 | ug | 1.2 (1) | 20 |
| 9645374 | Cadmium (Cd) | 2024/09/23 | 102 | 75 - 125 | 104 | 85 - 115 | <2.0 | ug | 1.1 (1) | 20 |
| 9645374 | Chromium (Cr) | 2024/09/23 | 96 | 75 - 125 | 102 | 85 - 115 | <5.0 | ug | 1.7 (1) | 20 |
| 9645374 | Cobalt (Co) | 2024/09/23 | 98 | 75 - 125 | 102 | 85 - 115 | <2.0 | ug | 1.2 (1) | 20 |
| 9645374 | Copper (Cu) | 2024/09/23 | 92 | 75 - 125 | 96 | 85 - 115 | <5.0 | ug | 1.7 (1) | 20 |
| 9645374 | Iron (Fe) | 2024/09/23 | 94 | 75 - 125 | 99 | 85 - 115 | <50 | ug | 1.1 (1) | 20 |
| 9645374 | Lead (Pb) | 2024/09/23 | 102 | 75 - 125 | 103 | 85 - 115 | <3.0 | ug | NC (1) | 20 |
| 9645374 | Lithium (Li) | 2024/09/23 | | | | | <27 | ug | | |
| 9645374 | Manganese (Mn) | 2024/09/23 | 94 | 75 - 125 | 98 | 85 - 115 | <1.0 | ug | 1.6 (1) | 20 |
| 9645374 | Nickel (Ni) | 2024/09/23 | 96 | 75 - 125 | 101 | 85 - 115 | <3.0 | ug | 1.4 (1) | 20 |
| 9645374 | Selenium (Se) | 2024/09/23 | 102 | 75 - 125 | 104 | 85 - 115 | <10 | ug | 1.3 (1) | 20 |
| 9645374 | Sulphur (S) | 2024/09/23 | 106 | 75 - 125 | 106 | 85 - 115 | <25 | ug | 0.95 (1) | 20 |
| 9645374 | Vanadium (V) | 2024/09/23 | 94 | 75 - 125 | 99 | 85 - 115 | <5.0 | ug | 2.1 (1) | 20 |
| 9645374 | Zinc (Zn) | 2024/09/23 | 99 | 75 - 125 | 104 | 85 - 115 | <5.0 | ug | 0.58 (1) | 20 |
| 9648672 | Total Mercury (Hg) | 2024/09/23 | 94 (2) | 80 - 120 | 96 | 90 - 110 | <0.002 | ug | NC (3) | 20 |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Duplicate Parent ID

(2) Matrix Spike Parent ID [ACEY83-01]

(3) Duplicate Parent ID [ACEY83-01]



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4R9831
Report Date: 2024/09/24

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

C4R9831
2024/09/09 09:58

AIR

CAM FCD-01302 /3

BUREAU VERITAS

6740 Campobello Rd
Mississauga Ontario ,L5N 2L8
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / WSP Canada Inc.
Project Manager: Ryan Fletcher
e-mail: See comments below for email list
Address: 19 Young Street, Red Lake, ON, CA, P0V 2M0
Phone: 1 647-283-4638 Fax:
Sampled by: JM + CB + EM + AP

**SECTION**

NONT-2024-09-1275

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Run Time | Dust Fall Opening (Inner Diameter) | Dust Fall Opening (Outer Diameter) | Silica | PM 10 | PM 2.5 | Dustfall | TSP | Metals | Mercury |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BELL TOWERS JULY 5 24040557 | | | JULY 5 2024 | 22.45 | | | | | | | X | X | X |
| BELL TOWERS JULY 11 24040558 | | | JULY 11 2024 | 23.83 | | | | | | | X | X | X |
| BELL TOWERS JULY 17 24040560 | | | JULY 17 2024 | 23.63 | | | | | | | X | X | X |
| BELL TOWERS JULY 23 24040561 | | 32 | JULY 23 2024 | 23.72 | | | | | | | X | X | X |
| BELL TOWERS JULY 29 24040562 | | 32 | JULY 29 2024 | 26.55 | | | | | | | X | X | X |
| BELL TOWERS AUG 4 24040563 | | 32 | AUG 4 2024 | 20.34 | | | | | | | X | X | X |
| BELL TOWERS AUG 10 24022393 | | 32 | AUG 10 2024 | 23.7 | | | | | | | X | X | X |
| BELL TOWERS AUG 16 24022394 | | 32 | AUG 16 2024 | 22.7 | | | | | | | X | X | X |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: CA0031272.9242
Name: Kinross Project
PO #: P104312CA001
BV Quote #:
BV Contact: Jade Browne

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: GBR_ENV@kinross.com; importer@kinrossgreatbear.ehsdata.com; ryan.fletcher@wsp.com; airgroup@woodplc.com and include a .csv file in MonitorPro format***

Client Signature: EM
Affiliation: Kinross
Date/Time: 9/4/2024

Received by:
Affiliation:
Date/Time: WM09/05 0958 09/09/24

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions*

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT (REDWATER)
Your C.O.C. #: 44385

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2022/11/11**
Report #: R7383749
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C2V8505**
**Received: 2022/11/01, 09:00**

Sample Matrix: Air
# Samples Received: 1

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | 1 | N/A | 2022/11/08 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air by GC/MS/SIM (1) | 1 | N/A | 2022/11/08 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air (TO-15) (2) | 1 | N/A | 2022/11/08 | BRL SOP-00304 | EPA TO-15 m |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

(2) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT (REDWATER)
Your C.O.C. #: 44385

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2022/11/11**
Report #: R7383749
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C2V8505**
**Received: 2022/11/01, 09:00**

analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key

Marinela Sim
Project Manager
11 Nov 2022 16:54:04

Please direct all questions regarding this Certificate of Analysis to:
Marinela Sim, Project Manager
Email: Marinela.Sim@bureauveritas.com
Phone# (905)817-5828

==========

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| **Bureau Veritas ID** | | UEA978 | UEA978 | | |
|---|---|---|---|---|---|
| **Sampling Date** | | 2022/10/17 | 2022/10/17 | | |
| **COC Number** | | 44385 | 44385 | | |
| | **UNITS** | **TEARDROP SUMMA CANISTER COT 17TH** | **TEARDROP SUMMA CANISTER COT 17TH Lab-Dup** | **RDL** | **QC Batch** |
| **Volatile Organics** | | | | | |
| Pressure on Receipt | psig | (-1.6) | N/A | N/A | 8332541 |
| 2-Propanone | ppbv | 0.78 | 0.81 | 0.10 | 8332538 |
| Dichlorodifluoromethane (FREON 12) | ppbv | 0.50 | 0.51 | 0.20 | 8332535 |
| 1,2-Dichlorotetrafluoroethane | ppbv | <0.17 | <0.17 | 0.17 | 8332535 |
| Chloromethane | ppbv | 0.35 | 0.42 | 0.30 | 8332535 |
| Vinyl Chloride | ppbv | <0.020 | <0.020 | 0.020 | 8332538 |
| Chloroethane | ppbv | <0.30 | <0.30 | 0.30 | 8332535 |
| 1,3-Butadiene | ppbv | <0.50 | <0.50 | 0.50 | 8332535 |
| Trichlorofluoromethane (FREON 11) | ppbv | 0.27 | 0.28 | 0.20 | 8332535 |
| Ethanol (ethyl alcohol) | ppbv | 1.3 | 1.5 | 1.0 | 8332535 |
| Trichlorotrifluoroethane | ppbv | <0.15 | <0.15 | 0.15 | 8332535 |
| 2-propanol | ppbv | <1.0 | <1.0 | 1.0 | 8332535 |
| Methyl Ethyl Ketone (2-Butanone) | ppbv | <0.10 | <0.10 | 0.10 | 8332538 |
| Methyl Isobutyl Ketone | ppbv | <0.10 | <0.10 | 0.10 | 8332538 |
| Methyl Butyl Ketone (2-Hexanone) | ppbv | <1.0 | <1.0 | 1.0 | 8332535 |
| Methyl t-butyl ether (MTBE) | ppbv | <0.10 | <0.10 | 0.10 | 8332538 |
| Ethyl Acetate | ppbv | <1.0 | <1.0 | 1.0 | 8332535 |
| 1,1-Dichloroethylene | ppbv | <0.050 | <0.050 | 0.050 | 8332538 |
| cis-1,2-Dichloroethylene | ppbv | <0.050 | <0.050 | 0.050 | 8332538 |
| trans-1,2-Dichloroethylene | ppbv | <0.10 | <0.10 | 0.10 | 8332538 |
| Methylene Chloride(Dichloromethane) | ppbv | 0.202 | 0.176 | 0.050 | 8332538 |
| Chloroform | ppbv | <0.040 | <0.040 | 0.040 | 8332538 |
| Carbon Tetrachloride | ppbv | 0.109 | 0.116 | 0.050 | 8332538 |
| 1,1-Dichloroethane | ppbv | <0.050 | <0.050 | 0.050 | 8332538 |
| 1,2-Dichloroethane | ppbv | 0.012 | 0.012 | 0.010 | 8332538 |
| Ethylene Dibromide | ppbv | <0.010 | <0.010 | 0.010 | 8332538 |
| 1,1,1-Trichloroethane | ppbv | <0.050 | <0.050 | 0.050 | 8332538 |
| 1,1,2-Trichloroethane | ppbv | <0.012 | <0.012 | 0.012 | 8332538 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| **Bureau Veritas ID** | | UEA978 | UEA978 | | |
|---|---|---|---|---|---|
| **Sampling Date** | | 2022/10/17 | 2022/10/17 | | |
| **COC Number** | | 44385 | 44385 | | |
| | **UNITS** | **TEARDROP SUMMA CANISTER COT 17TH** | **TEARDROP SUMMA CANISTER COT 17TH Lab-Dup** | **RDL** | **QC Batch** |
| 1,1,2,2-Tetrachloroethane | ppbv | <0.0027 | <0.0027 | 0.0027 | 8332538 |
| cis-1,3-Dichloropropene | ppbv | <0.050 | <0.050 | 0.050 | 8332538 |
| trans-1,3-Dichloropropene | ppbv | <0.050 | <0.050 | 0.050 | 8332538 |
| 1,2-Dichloropropane | ppbv | <0.050 | <0.050 | 0.050 | 8332538 |
| Bromomethane | ppbv | <0.050 | <0.050 | 0.050 | 8332538 |
| Bromoform | ppbv | <0.10 | <0.10 | 0.10 | 8332538 |
| Bromodichloromethane | ppbv | <0.20 | <0.20 | 0.20 | 8332535 |
| Dibromochloromethane | ppbv | <0.20 | <0.20 | 0.20 | 8332535 |
| Trichloroethylene | ppbv | <0.050 | <0.050 | 0.050 | 8332538 |
| Tetrachloroethylene | ppbv | <0.050 | <0.050 | 0.050 | 8332538 |
| Benzene | ppbv | <0.050 | <0.050 | 0.050 | 8332538 |
| Toluene | ppbv | <0.050 | <0.050 | 0.050 | 8332538 |
| Ethylbenzene | ppbv | <0.050 | <0.050 | 0.050 | 8332538 |
| p+m-Xylene | ppbv | <0.10 | <0.10 | 0.10 | 8332538 |
| o-Xylene | ppbv | <0.050 | <0.050 | 0.050 | 8332538 |
| Styrene | ppbv | <0.050 | <0.050 | 0.050 | 8332538 |
| 4-ethyltoluene | ppbv | <0.50 | <0.50 | 0.50 | 8332535 |
| 1,3,5-Trimethylbenzene | ppbv | <0.50 | <0.50 | 0.50 | 8332535 |
| 1,2,4-Trimethylbenzene | ppbv | <0.50 | <0.50 | 0.50 | 8332535 |
| Chlorobenzene | ppbv | <0.050 | <0.050 | 0.050 | 8332538 |
| Benzyl chloride | ppbv | <0.50 | <0.50 | 0.50 | 8332535 |
| 1,3-Dichlorobenzene | ppbv | <0.40 | <0.40 | 0.40 | 8332535 |
| 1,4-Dichlorobenzene | ppbv | <0.050 | <0.050 | 0.050 | 8332538 |
| 1,2-Dichlorobenzene | ppbv | <0.050 | <0.050 | 0.050 | 8332538 |
| 1,2,4-Trichlorobenzene | ppbv | <0.10 | <0.10 | 0.10 | 8332538 |
| Hexachlorobutadiene | ppbv | <0.0047 | <0.0047 | 0.0047 | 8332538 |
| Hexane | ppbv | <0.10 | <0.10 | 0.10 | 8332538 |
| Heptane | ppbv | <0.30 | <0.30 | 0.30 | 8332535 |
| Cyclohexane | ppbv | <0.20 | <0.20 | 0.20 | 8332535 |
| Tetrahydrofuran | ppbv | <0.40 | <0.40 | 0.40 | 8332535 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| **Bureau Veritas ID** | | UEA978 | UEA978 | | |
|---|---|---|---|---|---|
| **Sampling Date** | | 2022/10/17 | 2022/10/17 | | |
| **COC Number** | | 44385 | 44385 | | |
| | **UNITS** | **TEARDROP SUMMA CANISTER COT 17TH** | **TEARDROP SUMMA CANISTER COT 17TH Lab-Dup** | **RDL** | **QC Batch** |
| 1,4-Dioxane | ppbv | <1.0 | <1.0 | 1.0 | 8332535 |
| Naphthalene | ppbv | <0.10 | <0.10 | 0.10 | 8332538 |
| Total Xylenes | ppbv | <0.15 | <0.15 | 0.15 | 8332538 |
| 1,1,1,2-Tetrachloroethane | ppbv | <0.021 | <0.021 | 0.021 | 8332538 |
| Vinyl Bromide | ppbv | <0.20 | <0.20 | 0.20 | 8332535 |
| Propene | ppbv | <0.50 | <0.50 | 0.50 | 8332535 |
| 2,2,4-Trimethylpentane | ppbv | <0.20 | <0.20 | 0.20 | 8332535 |
| Carbon Disulfide | ppbv | <0.50 | <0.50 | 0.50 | 8332535 |
| Vinyl Acetate | ppbv | <0.20 | <0.20 | 0.20 | 8332535 |
| **Surrogate Recovery (%)** | | | | | |
| Bromochloromethane | % | 117 | 113 | N/A | 8332538 |
| D5-Chlorobenzene | % | 94 | 88 | N/A | 8332538 |
| Difluorobenzene | % | 107 | 100 | N/A | 8332538 |
| Bromochloromethane | % | 117 | 113 | N/A | 8332535 |
| D5-Chlorobenzene | % | 94 | 88 | N/A | 8332535 |
| Difluorobenzene | % | 107 | 100 | N/A | 8332535 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2V8505
Report Date: 2022/11/11

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT (REDWATER)
Your P.O. #: C026300307
Sampler Initials: SM

## TEST SUMMARY

**Bureau Veritas ID:** UEA978
**Sample ID:** TEARDROP SUMMA CANISTER COT 17TH
**Matrix:** Air

**Collected:** 2022/10/17
**Shipped:**
**Received:** 2022/11/01

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | PRES | 8332541 | N/A | 2022/11/08 | Pratima Patel |
| Volatile Organics in Air by GC/MS/SIM | GC/MS | 8332538 | N/A | 2022/11/08 | Pratima Patel |
| Volatile Organics in Air (TO-15) | GC/MS | 8332535 | N/A | 2022/11/08 | Pratima Patel |

**Bureau Veritas ID:** UEA978 Dup
**Sample ID:** TEARDROP SUMMA CANISTER COT 17TH
**Matrix:** Air

**Collected:** 2022/10/17
**Shipped:**
**Received:** 2022/11/01

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Volatile Organics in Air by GC/MS/SIM | GC/MS | 8332538 | N/A | 2022/11/08 | Pratima Patel |
| Volatile Organics in Air (TO-15) | GC/MS | 8332535 | N/A | 2022/11/08 | Pratima Patel |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

# QUALITY ASSURANCE REPORT



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8332535 | Bromochloromethane | 2022/11/08 | 119 | 60 - 140 | 120 | % | | |
| 8332535 | D5-Chlorobenzene | 2022/11/08 | 105 | 60 - 140 | 87 | % | | |
| 8332535 | Difluorobenzene | 2022/11/08 | 117 | 60 - 140 | 104 | % | | |
| 8332538 | Bromochloromethane | 2022/11/08 | 119 | 60 - 140 | 120 | % | | |
| 8332538 | D5-Chlorobenzene | 2022/11/08 | 105 | 60 - 140 | 87 | % | | |
| 8332538 | Difluorobenzene | 2022/11/08 | 117 | 60 - 140 | 104 | % | | |
| 8332535 | 1,2,4-Trimethylbenzene | 2022/11/08 | 106 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8332535 | 1,2-Dichlorotetrafluoroethane | 2022/11/08 | 89 | 70 - 130 | <0.17 | ppbv | NC (1) | 25 |
| 8332535 | 1,3,5-Trimethylbenzene | 2022/11/08 | 100 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8332535 | 1,3-Butadiene | 2022/11/08 | 101 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8332535 | 1,3-Dichlorobenzene | 2022/11/08 | 93 | 70 - 130 | <0.40 | ppbv | NC (1) | 25 |
| 8332535 | 1,4-Dioxane | 2022/11/08 | 130 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 8332535 | 2,2,4-Trimethylpentane | 2022/11/08 | 107 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8332535 | 2-propanol | 2022/11/08 | 111 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 8332535 | 4-ethyltoluene | 2022/11/08 | 106 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8332535 | Benzyl chloride | 2022/11/08 | 105 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8332535 | Bromodichloromethane | 2022/11/08 | 91 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8332535 | Carbon Disulfide | 2022/11/08 | 105 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8332535 | Chloroethane | 2022/11/08 | 102 | 70 - 130 | <0.30 | ppbv | NC (1) | 25 |
| 8332535 | Chloromethane | 2022/11/08 | 93 | 70 - 130 | <0.30 | ppbv | 20 (1) | 25 |
| 8332535 | Cyclohexane | 2022/11/08 | 103 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8332535 | Dibromochloromethane | 2022/11/08 | 96 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8332535 | Dichlorodifluoromethane (FREON 12) | 2022/11/08 | 91 | 70 - 130 | <0.20 | ppbv | 2.0 (1) | 25 |
| 8332535 | Ethanol (ethyl alcohol) | 2022/11/08 | 120 | 70 - 130 | <1.0 | ppbv | 10 (1) | 25 |
| 8332535 | Ethyl Acetate | 2022/11/08 | 105 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 8332535 | Heptane | 2022/11/08 | 106 | 70 - 130 | <0.30 | ppbv | NC (1) | 25 |
| 8332535 | Methyl Butyl Ketone (2-Hexanone) | 2022/11/08 | 108 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 8332535 | Propene | 2022/11/08 | 97 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8332535 | Tetrahydrofuran | 2022/11/08 | 100 | 70 - 130 | <0.40 | ppbv | NC (1) | 25 |
| 8332535 | Trichlorofluoromethane (FREON 11) | 2022/11/08 | 92 | 70 - 130 | <0.20 | ppbv | 2.5 (1) | 25 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8332535 | Trichlorotrifluoroethane | 2022/11/08 | 92 | 70 - 130 | <0.15 | ppbv | NC (1) | 25 |
| 8332535 | Vinyl Acetate | 2022/11/08 | 101 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8332535 | Vinyl Bromide | 2022/11/08 | 106 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8332538 | 1,1,1,2-Tetrachloroethane | 2022/11/08 | 100 | 70 - 130 | <0.021 | ppbv | NC (1) | 25 |
| 8332538 | 1,1,1-Trichloroethane | 2022/11/08 | 95 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8332538 | 1,1,2,2-Tetrachloroethane | 2022/11/08 | 88 | 70 - 130 | <0.0027 | ppbv | NC (1) | 25 |
| 8332538 | 1,1,2-Trichloroethane | 2022/11/08 | 98 | 70 - 130 | <0.012 | ppbv | NC (1) | 25 |
| 8332538 | 1,1-Dichloroethane | 2022/11/08 | 92 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8332538 | 1,1-Dichloroethylene | 2022/11/08 | 98 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8332538 | 1,2,4-Trichlorobenzene | 2022/11/08 | 106 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8332538 | 1,2-Dichlorobenzene | 2022/11/08 | 94 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8332538 | 1,2-Dichloroethane | 2022/11/08 | 93 | 70 - 130 | <0.010 | ppbv | 6.8 (1) | 25 |
| 8332538 | 1,2-Dichloropropane | 2022/11/08 | 100 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8332538 | 1,4-Dichlorobenzene | 2022/11/08 | 94 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8332538 | 2-Propanone | 2022/11/08 | 98 | 70 - 130 | <0.10 | ppbv | NC (1) | N/A |
| 8332538 | Benzene | 2022/11/08 | 97 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8332538 | Bromoform | 2022/11/08 | 94 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8332538 | Bromomethane | 2022/11/08 | 92 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8332538 | Carbon Tetrachloride | 2022/11/08 | 93 | 70 - 130 | <0.050 | ppbv | 6.5 (1) | 25 |
| 8332538 | Chlorobenzene | 2022/11/08 | 96 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8332538 | Chloroform | 2022/11/08 | 96 | 70 - 130 | <0.040 | ppbv | NC (1) | 25 |
| 8332538 | cis-1,2-Dichloroethylene | 2022/11/08 | 97 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8332538 | cis-1,3-Dichloropropene | 2022/11/08 | 104 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8332538 | Ethylbenzene | 2022/11/08 | 106 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8332538 | Ethylene Dibromide | 2022/11/08 | 98 | 70 - 130 | <0.010 | ppbv | NC (1) | 25 |
| 8332538 | Hexachlorobutadiene | 2022/11/08 | 118 | 70 - 130 | <0.0047 | ppbv | NC (1) | 25 |
| 8332538 | Hexane | 2022/11/08 | 99 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8332538 | Methyl Ethyl Ketone (2-Butanone) | 2022/11/08 | 116 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8332538 | Methyl Isobutyl Ketone | 2022/11/08 | 108 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8332538 | Methyl t-butyl ether (MTBE) | 2022/11/08 | 92 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8332538 | Methylene Chloride(Dichloromethane) | 2022/11/08 | 94 | 70 - 130 | <0.050 | ppbv | 14 (1) | 25 |
| 8332538 | Naphthalene | 2022/11/08 | 115 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8332538 | o-Xylene | 2022/11/08 | 101 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8332538 | p+m-Xylene | 2022/11/08 | 106 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8332538 | Styrene | 2022/11/08 | 102 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8332538 | Tetrachloroethylene | 2022/11/08 | 96 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8332538 | Toluene | 2022/11/08 | 102 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8332538 | Total Xylenes | 2022/11/08 | 104 | 70 - 130 | <0.15 | ppbv | NC (1) | 25 |
| 8332538 | trans-1,2-Dichloroethylene | 2022/11/08 | 97 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8332538 | trans-1,3-Dichloropropene | 2022/11/08 | 107 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8332538 | Trichloroethylene | 2022/11/08 | 97 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8332538 | Vinyl Chloride | 2022/11/08 | 94 | 70 - 130 | <0.020 | ppbv | NC (1) | 25 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Duplicate Parent ID [UEA978-01]



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2V8505
Report Date: 2022/11/11

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT (REDWATER)
Your P.O. #: C026300307
Sampler Initials: SM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Melanie Mabini, Team Leader

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

# Chain of Custody Form - Summa™ Canister

44385

6740 Campobello Rd
Mississauga Ontario, L5N 2L8
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

CAM FCD-01302 /3

Page ____ of ____

**INVOICE INFORMATION**

Company Name:
Contact Name:
Address:
E-mail:
Ph:
Sampled by: Jacob McRae

**REPORT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McRae
Address: 1 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
E-mail: jacob.mcrae@kinross.com
Ph: 807 728 2185

**ANALYSIS REQUESTED**

| Field Sample ID | Canister Serial # | Flow Regulator Serial # | Collection Date | START VACUUM (inches of Hg) | END VACUUM (inches of Hg) | SOIL VAPOUR | AMBIENT/INDOOR AIR | AMBIENT/COMMERCIAL/INDUSTRIAL | SUB-SLAB GAS | FULL LIST OF VOCs (reference TO15A) | BTEX/Aromatic/Aliphatic Hydrocarbon Fractions | BTEX/F1 (C6-C10) and F2 (C10-C16) | Selected VOC's - please specify | Other | | | | CANISTERS NOT USED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Teardrop Summa Canister Oct 17th | GC2507588 | GC2507588 | Oct 17th | -27 | -2 | | ✓ | | | ✓ | | | | | | | | |

01-Nov-22 09:00
Gina Baybayan
C2V8505
BSU AIR-001

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day *
Rush 2 Business day *
Rush Other *

* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project (Red Lake)
PO #: CO 2630 0307
Bureau Veritas Quote #:
Bureau Veritas Contact: Cristina Brescia
Task Order/Line Item

**REPORTING REQUIREMENTS**

EDD ☑
Regulations ON 153 ☑
ON 419 ☑
BC CSR ☑
Other

**Notes**

1) please indicate on chain of custody if your samples are soil vapour or ambient air
2) please list all canisters on the chain of custody even if unused

**PROJECT SPECIFIC COMMENTS**

Please email results to jacob.mcrae@kinross.com; Christopher.reid@kinross.com; ashley.menecief@kinross.com; ryan.fletcher@wood.com; gisgroup@wood.com.

**PLEASE RETURN ALL UNUSED EQUIPMENT**

Client Signature: Jacob McRae
Date/Time: Oct 27/22

Received by: Christina Bonnisha Pamaran
Date/Time: 2022/11/01 09:00

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Maxxam's standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at www.bvlabs.com/terms-and-conditions*

COC-1003 (11/2019)

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT (REDWATER)
Your C.O.C. #: 44385

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2022/11/11**
Report #: R7383749
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C2V8505**
**Received: 2022/11/01, 09:00**

Sample Matrix: Air
# Samples Received: 1

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | 1 | N/A | 2022/11/08 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air by GC/MS/SIM (1) | 1 | N/A | 2022/11/08 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air (TO-15) (2) | 1 | N/A | 2022/11/08 | BRL SOP-00304 | EPA TO-15 m |

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

(2) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key

Marinela Sim
Project Manager
11 Nov 2022 16:54:09

Please direct all questions regarding this Certificate of Analysis to:
Marinela Sim, Project Manager
Email: Marinela.Sim@bureauveritas.com
Phone# (905)817-5828

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C2V8505
Report Date: 2022/11/11

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT (REDWATER)
Your P.O. #: C026300307
Sampler Initials: SM

## RESULTS OF ANALYSES OF AIR

| Bureau Veritas ID | | UEA978 | |
|---|---|---|---|
| Sampling Date | | 2022/10/17 | |
| COC Number | | 44385 | |
| | UNITS | TEARDROP SUMMA CANISTER COT 17TH | QC Batch |
| **Volatile Organics** | | | |
| Pressure on Receipt | psig | (-1.6) | 8332541 |
| QC Batch = Quality Control Batch | | | |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## VOLATILE ORGANICS BY GC/MS (AIR)

| Bureau Veritas ID | | UEA978 | | | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2022/10/17 | | | | |
| COC Number | | 44385 | | | | |
| | UNITS | TEARDROP SUMMA CANISTER COT 17TH | RDL | ug/m3 | DL (ug/m3) | QC Batch |
| **Volatile Organics** | | | | | | |
| 2-Propanone | ppbv | 0.78 | 0.10 | 1.86 | 0.238 | 8332538 |
| Dichlorodifluoromethane (FREON 12) | ppbv | 0.50 | 0.20 | 2.48 | 0.989 | 8332535 |
| 1,2-Dichlorotetrafluoroethane | ppbv | <0.17 | 0.17 | <1.19 | 1.19 | 8332535 |
| Chloromethane | ppbv | 0.35 | 0.30 | 0.717 | 0.620 | 8332535 |
| Vinyl Chloride | ppbv | <0.020 | 0.020 | <0.0511 | 0.0511 | 8332538 |
| Chloroethane | ppbv | <0.30 | 0.30 | <0.792 | 0.792 | 8332535 |
| 1,3-Butadiene | ppbv | <0.50 | 0.50 | <1.11 | 1.11 | 8332535 |
| Trichlorofluoromethane (FREON 11) | ppbv | 0.27 | 0.20 | 1.53 | 1.12 | 8332535 |
| Ethanol (ethyl alcohol) | ppbv | 1.3 | 1.0 | 2.52 | 1.88 | 8332535 |
| Trichlorotrifluoroethane | ppbv | <0.15 | 0.15 | <1.15 | 1.15 | 8332535 |
| 2-propanol | ppbv | <1.0 | 1.0 | <2.46 | 2.46 | 8332535 |
| Methyl Ethyl Ketone (2-Butanone) | ppbv | <0.10 | 0.10 | <0.295 | 0.295 | 8332538 |
| Methyl Isobutyl Ketone | ppbv | <0.10 | 0.10 | <0.410 | 0.410 | 8332538 |
| Methyl Butyl Ketone (2-Hexanone) | ppbv | <1.0 | 1.0 | <4.10 | 4.10 | 8332535 |
| Methyl t-butyl ether (MTBE) | ppbv | <0.10 | 0.10 | <0.361 | 0.361 | 8332538 |
| Ethyl Acetate | ppbv | <1.0 | 1.0 | <3.60 | 3.60 | 8332535 |
| 1,1-Dichloroethylene | ppbv | <0.050 | 0.050 | <0.198 | 0.198 | 8332538 |
| cis-1,2-Dichloroethylene | ppbv | <0.050 | 0.050 | <0.198 | 0.198 | 8332538 |
| trans-1,2-Dichloroethylene | ppbv | <0.10 | 0.10 | <0.396 | 0.396 | 8332538 |
| Methylene Chloride(Dichloromethane) | ppbv | 0.202 | 0.050 | 0.701 | 0.174 | 8332538 |
| Chloroform | ppbv | <0.040 | 0.040 | <0.195 | 0.195 | 8332538 |
| Carbon Tetrachloride | ppbv | 0.109 | 0.050 | 0.683 | 0.315 | 8332538 |
| 1,1-Dichloroethane | ppbv | <0.050 | 0.050 | <0.202 | 0.202 | 8332538 |
| 1,2-Dichloroethane | ppbv | 0.012 | 0.010 | 0.0471 | 0.0405 | 8332538 |
| Ethylene Dibromide | ppbv | <0.010 | 0.010 | <0.0768 | 0.0768 | 8332538 |
| 1,1,1-Trichloroethane | ppbv | <0.050 | 0.050 | <0.273 | 0.273 | 8332538 |
| 1,1,2-Trichloroethane | ppbv | <0.012 | 0.012 | <0.0655 | 0.0655 | 8332538 |
| 1,1,2,2-Tetrachloroethane | ppbv | <0.0027 | 0.0027 | <0.0185 | 0.0185 | 8332538 |
| cis-1,3-Dichloropropene | ppbv | <0.050 | 0.050 | <0.227 | 0.227 | 8332538 |
| trans-1,3-Dichloropropene | ppbv | <0.050 | 0.050 | <0.227 | 0.227 | 8332538 |
| 1,2-Dichloropropane | ppbv | <0.050 | 0.050 | <0.231 | 0.231 | 8332538 |
| Bromomethane | ppbv | <0.050 | 0.050 | <0.194 | 0.194 | 8332538 |
| Bromoform | ppbv | <0.10 | 0.10 | <1.03 | 1.03 | 8332538 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## VOLATILE ORGANICS BY GC/MS (AIR)

| Bureau Veritas ID | | UEA978 | | | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2022/10/17 | | | | |
| COC Number | | 44385 | | | | |
| | UNITS | TEARDROP SUMMA CANISTER COT 17TH | RDL | ug/m3 | DL (ug/m3) | QC Batch |
| Bromodichloromethane | ppbv | <0.20 | 0.20 | <1.34 | 1.34 | 8332535 |
| Dibromochloromethane | ppbv | <0.20 | 0.20 | <1.70 | 1.70 | 8332535 |
| Trichloroethylene | ppbv | <0.050 | 0.050 | <0.269 | 0.269 | 8332538 |
| Tetrachloroethylene | ppbv | <0.050 | 0.050 | <0.339 | 0.339 | 8332538 |
| Benzene | ppbv | <0.050 | 0.050 | <0.160 | 0.160 | 8332538 |
| Toluene | ppbv | <0.050 | 0.050 | <0.188 | 0.188 | 8332538 |
| Ethylbenzene | ppbv | <0.050 | 0.050 | <0.217 | 0.217 | 8332538 |
| p+m-Xylene | ppbv | <0.10 | 0.10 | <0.434 | 0.434 | 8332538 |
| o-Xylene | ppbv | <0.050 | 0.050 | <0.217 | 0.217 | 8332538 |
| Styrene | ppbv | <0.050 | 0.050 | <0.213 | 0.213 | 8332538 |
| 4-ethyltoluene | ppbv | <0.50 | 0.50 | <2.46 | 2.46 | 8332535 |
| 1,3,5-Trimethylbenzene | ppbv | <0.50 | 0.50 | <2.45 | 2.45 | 8332535 |
| 1,2,4-Trimethylbenzene | ppbv | <0.50 | 0.50 | <2.45 | 2.45 | 8332535 |
| Chlorobenzene | ppbv | <0.050 | 0.050 | <0.230 | 0.230 | 8332538 |
| Benzyl chloride | ppbv | <0.50 | 0.50 | <2.59 | 2.59 | 8332535 |
| 1,3-Dichlorobenzene | ppbv | <0.40 | 0.40 | <2.40 | 2.40 | 8332535 |
| 1,4-Dichlorobenzene | ppbv | <0.050 | 0.050 | <0.301 | 0.301 | 8332538 |
| 1,2-Dichlorobenzene | ppbv | <0.050 | 0.050 | <0.301 | 0.301 | 8332538 |
| 1,2,4-Trichlorobenzene | ppbv | <0.10 | 0.10 | <0.742 | 0.742 | 8332538 |
| Hexachlorobutadiene | ppbv | <0.0047 | 0.0047 | <0.0501 | 0.0501 | 8332538 |
| Hexane | ppbv | <0.10 | 0.10 | <0.352 | 0.352 | 8332538 |
| Heptane | ppbv | <0.30 | 0.30 | <1.23 | 1.23 | 8332535 |
| Cyclohexane | ppbv | <0.20 | 0.20 | <0.688 | 0.688 | 8332535 |
| Tetrahydrofuran | ppbv | <0.40 | 0.40 | <1.18 | 1.18 | 8332535 |
| 1,4-Dioxane | ppbv | <1.0 | 1.0 | <3.60 | 3.60 | 8332535 |
| Naphthalene | ppbv | <0.10 | 0.10 | <0.524 | 0.524 | 8332538 |
| Total Xylenes | ppbv | <0.15 | 0.15 | <0.651 | 0.651 | 8332538 |
| 1,1,1,2-Tetrachloroethane | ppbv | <0.021 | 0.021 | <0.144 | 0.144 | 8332538 |
| Vinyl Bromide | ppbv | <0.20 | 0.20 | <0.875 | 0.875 | 8332535 |
| Propene | ppbv | <0.50 | 0.50 | <0.861 | 0.861 | 8332535 |
| 2,2,4-Trimethylpentane | ppbv | <0.20 | 0.20 | <0.934 | 0.934 | 8332535 |
| Carbon Disulfide | ppbv | <0.50 | 0.50 | <1.56 | 1.56 | 8332535 |
| Vinyl Acetate | ppbv | <0.20 | 0.20 | <0.704 | 0.704 | 8332535 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## VOLATILE ORGANICS BY GC/MS (AIR)

| **Bureau Veritas ID** | | UEA978 | | | | |
|---|---|---|---|---|---|---|
| **Sampling Date** | | 2022/10/17 | | | | |
| **COC Number** | | 44385 | | | | |
| | **UNITS** | **TEARDROP SUMMA CANISTER COT 17TH** | **RDL** | **ug/m3** | **DL (ug/m3)** | **QC Batch** |
| **Surrogate Recovery (%)** | | | | | | |
| Bromochloromethane | % | 117 | | N/A | N/A | 8332538 |
| D5-Chlorobenzene | % | 94 | | N/A | N/A | 8332538 |
| Difluorobenzene | % | 107 | | N/A | N/A | 8332538 |
| Bromochloromethane | % | 117 | | N/A | N/A | 8332535 |
| D5-Chlorobenzene | % | 94 | | N/A | N/A | 8332535 |
| Difluorobenzene | % | 107 | | N/A | N/A | 8332535 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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## GENERAL COMMENTS

**Results relate only to the items tested.**



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## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 8332535 | TIM | Spiked Blank | Bromochloromethane | 2022/11/08 | | 119 | % | 60 - 140 |
| | | | D5-Chlorobenzene | 2022/11/08 | | 105 | % | 60 - 140 |
| | | | Difluorobenzene | 2022/11/08 | | 117 | % | 60 - 140 |
| | | | Dichlorodifluoromethane (FREON 12) | 2022/11/08 | | 91 | % | 70 - 130 |
| | | | 1,2-Dichlorotetrafluoroethane | 2022/11/08 | | 89 | % | 70 - 130 |
| | | | Chloromethane | 2022/11/08 | | 93 | % | 70 - 130 |
| | | | Chloroethane | 2022/11/08 | | 102 | % | 70 - 130 |
| | | | 1,3-Butadiene | 2022/11/08 | | 101 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2022/11/08 | | 92 | % | 70 - 130 |
| | | | Ethanol (ethyl alcohol) | 2022/11/08 | | 120 | % | 70 - 130 |
| | | | Trichlorotrifluoroethane | 2022/11/08 | | 92 | % | 70 - 130 |
| | | | 2-propanol | 2022/11/08 | | 111 | % | 70 - 130 |
| | | | Methyl Butyl Ketone (2-Hexanone) | 2022/11/08 | | 108 | % | 70 - 130 |
| | | | Ethyl Acetate | 2022/11/08 | | 105 | % | 70 - 130 |
| | | | Bromodichloromethane | 2022/11/08 | | 91 | % | 70 - 130 |
| | | | Dibromochloromethane | 2022/11/08 | | 96 | % | 70 - 130 |
| | | | 4-ethyltoluene | 2022/11/08 | | 106 | % | 70 - 130 |
| | | | 1,3,5-Trimethylbenzene | 2022/11/08 | | 100 | % | 70 - 130 |
| | | | 1,2,4-Trimethylbenzene | 2022/11/08 | | 106 | % | 70 - 130 |
| | | | Benzyl chloride | 2022/11/08 | | 105 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2022/11/08 | | 93 | % | 70 - 130 |
| | | | Heptane | 2022/11/08 | | 106 | % | 70 - 130 |
| | | | Cyclohexane | 2022/11/08 | | 103 | % | 70 - 130 |
| | | | Tetrahydrofuran | 2022/11/08 | | 100 | % | 70 - 130 |
| | | | 1,4-Dioxane | 2022/11/08 | | 130 | % | 70 - 130 |
| | | | Vinyl Bromide | 2022/11/08 | | 106 | % | 70 - 130 |
| | | | Propene | 2022/11/08 | | 97 | % | 70 - 130 |
| | | | 2,2,4-Trimethylpentane | 2022/11/08 | | 107 | % | 70 - 130 |
| | | | Carbon Disulfide | 2022/11/08 | | 105 | % | 70 - 130 |
| | | | Vinyl Acetate | 2022/11/08 | | 101 | % | 70 - 130 |
| 8332535 | TIM | Method Blank | Bromochloromethane | 2022/11/08 | | 120 | % | 60 - 140 |
| | | | D5-Chlorobenzene | 2022/11/08 | | 87 | % | 60 - 140 |
| | | | Difluorobenzene | 2022/11/08 | | 104 | % | 60 - 140 |
| | | | Dichlorodifluoromethane (FREON 12) | 2022/11/08 | <0.20 | | ppbv | |
| | | | 1,2-Dichlorotetrafluoroethane | 2022/11/08 | <0.17 | | ppbv | |
| | | | Chloromethane | 2022/11/08 | <0.30 | | ppbv | |
| | | | Chloroethane | 2022/11/08 | <0.30 | | ppbv | |
| | | | 1,3-Butadiene | 2022/11/08 | <0.50 | | ppbv | |
| | | | Trichlorofluoromethane (FREON 11) | 2022/11/08 | <0.20 | | ppbv | |
| | | | Ethanol (ethyl alcohol) | 2022/11/08 | <1.0 | | ppbv | |
| | | | Trichlorotrifluoroethane | 2022/11/08 | <0.15 | | ppbv | |
| | | | 2-propanol | 2022/11/08 | <1.0 | | ppbv | |
| | | | Methyl Butyl Ketone (2-Hexanone) | 2022/11/08 | <1.0 | | ppbv | |
| | | | Ethyl Acetate | 2022/11/08 | <1.0 | | ppbv | |
| | | | Bromodichloromethane | 2022/11/08 | <0.20 | | ppbv | |
| | | | Dibromochloromethane | 2022/11/08 | <0.20 | | ppbv | |
| | | | 4-ethyltoluene | 2022/11/08 | <0.50 | | ppbv | |
| | | | 1,3,5-Trimethylbenzene | 2022/11/08 | <0.50 | | ppbv | |
| | | | 1,2,4-Trimethylbenzene | 2022/11/08 | <0.50 | | ppbv | |
| | | | Benzyl chloride | 2022/11/08 | <0.50 | | ppbv | |
| | | | 1,3-Dichlorobenzene | 2022/11/08 | <0.40 | | ppbv | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Heptane | 2022/11/08 | <0.30 | | ppbv | |
| | | | Cyclohexane | 2022/11/08 | <0.20 | | ppbv | |
| | | | Tetrahydrofuran | 2022/11/08 | <0.40 | | ppbv | |
| | | | 1,4-Dioxane | 2022/11/08 | <1.0 | | ppbv | |
| | | | Vinyl Bromide | 2022/11/08 | <0.20 | | ppbv | |
| | | | Propene | 2022/11/08 | <0.50 | | ppbv | |
| | | | 2,2,4-Trimethylpentane | 2022/11/08 | <0.20 | | ppbv | |
| | | | Carbon Disulfide | 2022/11/08 | <0.50 | | ppbv | |
| | | | Vinyl Acetate | 2022/11/08 | <0.20 | | ppbv | |
| 8332535 | TIM | RPD [UEA978-01] | Dichlorodifluoromethane (FREON 12) | 2022/11/08 | 2.0 | | % | 25 |
| | | | 1,2-Dichlorotetrafluoroethane | 2022/11/08 | NC | | % | 25 |
| | | | Chloromethane | 2022/11/08 | 20 | | % | 25 |
| | | | Chloroethane | 2022/11/08 | NC | | % | 25 |
| | | | 1,3-Butadiene | 2022/11/08 | NC | | % | 25 |
| | | | Trichlorofluoromethane (FREON 11) | 2022/11/08 | 2.5 | | % | 25 |
| | | | Ethanol (ethyl alcohol) | 2022/11/08 | 10 | | % | 25 |
| | | | Trichlorotrifluoroethane | 2022/11/08 | NC | | % | 25 |
| | | | 2-propanol | 2022/11/08 | NC | | % | 25 |
| | | | Methyl Butyl Ketone (2-Hexanone) | 2022/11/08 | NC | | % | 25 |
| | | | Ethyl Acetate | 2022/11/08 | NC | | % | 25 |
| | | | Bromodichloromethane | 2022/11/08 | NC | | % | 25 |
| | | | Dibromochloromethane | 2022/11/08 | NC | | % | 25 |
| | | | 4-ethyltoluene | 2022/11/08 | NC | | % | 25 |
| | | | 1,3,5-Trimethylbenzene | 2022/11/08 | NC | | % | 25 |
| | | | 1,2,4-Trimethylbenzene | 2022/11/08 | NC | | % | 25 |
| | | | Benzyl chloride | 2022/11/08 | NC | | % | 25 |
| | | | 1,3-Dichlorobenzene | 2022/11/08 | NC | | % | 25 |
| | | | Heptane | 2022/11/08 | NC | | % | 25 |
| | | | Cyclohexane | 2022/11/08 | NC | | % | 25 |
| | | | Tetrahydrofuran | 2022/11/08 | NC | | % | 25 |
| | | | 1,4-Dioxane | 2022/11/08 | NC | | % | 25 |
| | | | Vinyl Bromide | 2022/11/08 | NC | | % | 25 |
| | | | Propene | 2022/11/08 | NC | | % | 25 |
| | | | 2,2,4-Trimethylpentane | 2022/11/08 | NC | | % | 25 |
| | | | Carbon Disulfide | 2022/11/08 | NC | | % | 25 |
| | | | Vinyl Acetate | 2022/11/08 | NC | | % | 25 |
| 8332538 | TIM | Spiked Blank | 2-Propanone | 2022/11/08 | | 98 | % | 70 - 130 |
| | | | Bromochloromethane | 2022/11/08 | | 119 | % | 60 - 140 |
| | | | D5-Chlorobenzene | 2022/11/08 | | 105 | % | 60 - 140 |
| | | | Difluorobenzene | 2022/11/08 | | 117 | % | 60 - 140 |
| | | | Vinyl Chloride | 2022/11/08 | | 94 | % | 70 - 130 |
| | | | Methyl Ethyl Ketone (2-Butanone) | 2022/11/08 | | 116 | % | 70 - 130 |
| | | | Methyl Isobutyl Ketone | 2022/11/08 | | 108 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2022/11/08 | | 92 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2022/11/08 | | 98 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2022/11/08 | | 97 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2022/11/08 | | 97 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2022/11/08 | | 94 | % | 70 - 130 |
| | | | Chloroform | 2022/11/08 | | 96 | % | 70 - 130 |
| | | | Carbon Tetrachloride | 2022/11/08 | | 93 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2022/11/08 | | 92 | % | 70 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | 1,2-Dichloroethane | 2022/11/08 | | 93 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2022/11/08 | | 98 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2022/11/08 | | 95 | % | 70 - 130 |
| | | | 1,1,2-Trichloroethane | 2022/11/08 | | 98 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2022/11/08 | | 88 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2022/11/08 | | 104 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2022/11/08 | | 107 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2022/11/08 | | 100 | % | 70 - 130 |
| | | | Bromomethane | 2022/11/08 | | 92 | % | 70 - 130 |
| | | | Bromoform | 2022/11/08 | | 94 | % | 70 - 130 |
| | | | Trichloroethylene | 2022/11/08 | | 97 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2022/11/08 | | 96 | % | 70 - 130 |
| | | | Benzene | 2022/11/08 | | 97 | % | 70 - 130 |
| | | | Toluene | 2022/11/08 | | 102 | % | 70 - 130 |
| | | | Ethylbenzene | 2022/11/08 | | 106 | % | 70 - 130 |
| | | | p+m-Xylene | 2022/11/08 | | 106 | % | 70 - 130 |
| | | | o-Xylene | 2022/11/08 | | 101 | % | 70 - 130 |
| | | | Styrene | 2022/11/08 | | 102 | % | 70 - 130 |
| | | | Chlorobenzene | 2022/11/08 | | 96 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2022/11/08 | | 94 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2022/11/08 | | 94 | % | 70 - 130 |
| | | | 1,2,4-Trichlorobenzene | 2022/11/08 | | 106 | % | 70 - 130 |
| | | | Hexachlorobutadiene | 2022/11/08 | | 118 | % | 70 - 130 |
| | | | Hexane | 2022/11/08 | | 99 | % | 70 - 130 |
| | | | Naphthalene | 2022/11/08 | | 115 | % | 70 - 130 |
| | | | Total Xylenes | 2022/11/08 | | 104 | % | 70 - 130 |
| | | | 1,1,1,2-Tetrachloroethane | 2022/11/08 | | 100 | % | 70 - 130 |
| 8332538 | TIM | Method Blank | 2-Propanone | 2022/11/08 | <0.10 | | ppbv | |
| | | | Bromochloromethane | 2022/11/08 | | 120 | % | 60 - 140 |
| | | | D5-Chlorobenzene | 2022/11/08 | | 87 | % | 60 - 140 |
| | | | Difluorobenzene | 2022/11/08 | | 104 | % | 60 - 140 |
| | | | Vinyl Chloride | 2022/11/08 | <0.020 | | ppbv | |
| | | | Methyl Ethyl Ketone (2-Butanone) | 2022/11/08 | <0.10 | | ppbv | |
| | | | Methyl Isobutyl Ketone | 2022/11/08 | <0.10 | | ppbv | |
| | | | Methyl t-butyl ether (MTBE) | 2022/11/08 | <0.10 | | ppbv | |
| | | | 1,1-Dichloroethylene | 2022/11/08 | <0.050 | | ppbv | |
| | | | cis-1,2-Dichloroethylene | 2022/11/08 | <0.050 | | ppbv | |
| | | | trans-1,2-Dichloroethylene | 2022/11/08 | <0.10 | | ppbv | |
| | | | Methylene Chloride(Dichloromethane) | 2022/11/08 | <0.050 | | ppbv | |
| | | | Chloroform | 2022/11/08 | <0.040 | | ppbv | |
| | | | Carbon Tetrachloride | 2022/11/08 | <0.050 | | ppbv | |
| | | | 1,1-Dichloroethane | 2022/11/08 | <0.050 | | ppbv | |
| | | | 1,2-Dichloroethane | 2022/11/08 | <0.010 | | ppbv | |
| | | | Ethylene Dibromide | 2022/11/08 | <0.010 | | ppbv | |
| | | | 1,1,1-Trichloroethane | 2022/11/08 | <0.050 | | ppbv | |
| | | | 1,1,2-Trichloroethane | 2022/11/08 | <0.012 | | ppbv | |
| | | | 1,1,2,2-Tetrachloroethane | 2022/11/08 | <0.0027 | | ppbv | |
| | | | cis-1,3-Dichloropropene | 2022/11/08 | <0.050 | | ppbv | |
| | | | trans-1,3-Dichloropropene | 2022/11/08 | <0.050 | | ppbv | |
| | | | 1,2-Dichloropropane | 2022/11/08 | <0.050 | | ppbv | |
| | | | Bromomethane | 2022/11/08 | <0.050 | | ppbv | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Bromoform | 2022/11/08 | <0.10 | | ppbv | |
| | | | Trichloroethylene | 2022/11/08 | <0.050 | | ppbv | |
| | | | Tetrachloroethylene | 2022/11/08 | <0.050 | | ppbv | |
| | | | Benzene | 2022/11/08 | <0.050 | | ppbv | |
| | | | Toluene | 2022/11/08 | <0.050 | | ppbv | |
| | | | Ethylbenzene | 2022/11/08 | <0.050 | | ppbv | |
| | | | p+m-Xylene | 2022/11/08 | <0.10 | | ppbv | |
| | | | o-Xylene | 2022/11/08 | <0.050 | | ppbv | |
| | | | Styrene | 2022/11/08 | <0.050 | | ppbv | |
| | | | Chlorobenzene | 2022/11/08 | <0.050 | | ppbv | |
| | | | 1,4-Dichlorobenzene | 2022/11/08 | <0.050 | | ppbv | |
| | | | 1,2-Dichlorobenzene | 2022/11/08 | <0.050 | | ppbv | |
| | | | 1,2,4-Trichlorobenzene | 2022/11/08 | <0.10 | | ppbv | |
| | | | Hexachlorobutadiene | 2022/11/08 | <0.0047 | | ppbv | |
| | | | Hexane | 2022/11/08 | <0.10 | | ppbv | |
| | | | Naphthalene | 2022/11/08 | <0.10 | | ppbv | |
| | | | Total Xylenes | 2022/11/08 | <0.15 | | ppbv | |
| | | | 1,1,1,2-Tetrachloroethane | 2022/11/08 | <0.021 | | ppbv | |
| 8332538 | TIM | RPD [UEA978-01] | 2-Propanone | 2022/11/08 | NC | | % | N/A |
| | | | Vinyl Chloride | 2022/11/08 | NC | | % | 25 |
| | | | Methyl Ethyl Ketone (2-Butanone) | 2022/11/08 | NC | | % | 25 |
| | | | Methyl Isobutyl Ketone | 2022/11/08 | NC | | % | 25 |
| | | | Methyl t-butyl ether (MTBE) | 2022/11/08 | NC | | % | 25 |
| | | | 1,1-Dichloroethylene | 2022/11/08 | NC | | % | 25 |
| | | | cis-1,2-Dichloroethylene | 2022/11/08 | NC | | % | 25 |
| | | | trans-1,2-Dichloroethylene | 2022/11/08 | NC | | % | 25 |
| | | | Methylene Chloride(Dichloromethane) | 2022/11/08 | 14 | | % | 25 |
| | | | Chloroform | 2022/11/08 | NC | | % | 25 |
| | | | Carbon Tetrachloride | 2022/11/08 | 6.5 | | % | 25 |
| | | | 1,1-Dichloroethane | 2022/11/08 | NC | | % | 25 |
| | | | 1,2-Dichloroethane | 2022/11/08 | 6.8 | | % | 25 |
| | | | Ethylene Dibromide | 2022/11/08 | NC | | % | 25 |
| | | | 1,1,1-Trichloroethane | 2022/11/08 | NC | | % | 25 |
| | | | 1,1,2-Trichloroethane | 2022/11/08 | NC | | % | 25 |
| | | | 1,1,2,2-Tetrachloroethane | 2022/11/08 | NC | | % | 25 |
| | | | cis-1,3-Dichloropropene | 2022/11/08 | NC | | % | 25 |
| | | | trans-1,3-Dichloropropene | 2022/11/08 | NC | | % | 25 |
| | | | 1,2-Dichloropropane | 2022/11/08 | NC | | % | 25 |
| | | | Bromomethane | 2022/11/08 | NC | | % | 25 |
| | | | Bromoform | 2022/11/08 | NC | | % | 25 |
| | | | Trichloroethylene | 2022/11/08 | NC | | % | 25 |
| | | | Tetrachloroethylene | 2022/11/08 | NC | | % | 25 |
| | | | Benzene | 2022/11/08 | NC | | % | 25 |
| | | | Toluene | 2022/11/08 | NC | | % | 25 |
| | | | Ethylbenzene | 2022/11/08 | NC | | % | 25 |
| | | | p+m-Xylene | 2022/11/08 | NC | | % | 25 |
| | | | o-Xylene | 2022/11/08 | NC | | % | 25 |
| | | | Styrene | 2022/11/08 | NC | | % | 25 |
| | | | Chlorobenzene | 2022/11/08 | NC | | % | 25 |
| | | | 1,4-Dichlorobenzene | 2022/11/08 | NC | | % | 25 |
| | | | 1,2-Dichlorobenzene | 2022/11/08 | NC | | % | 25 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | 1,2,4-Trichlorobenzene | 2022/11/08 | NC | | % | 25 |
| | | | Hexachlorobutadiene | 2022/11/08 | NC | | % | 25 |
| | | | Hexane | 2022/11/08 | NC | | % | 25 |
| | | | Naphthalene | 2022/11/08 | NC | | % | 25 |
| | | | Total Xylenes | 2022/11/08 | NC | | % | 25 |
| | | | 1,1,1,2-Tetrachloroethane | 2022/11/08 | NC | | % | 25 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2V8505
Report Date: 2022/11/11

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT (REDWATER)
Your P.O. #: C026300307
Sampler Initials: SM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Melanie Mabini, Team Leader

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: C02600346
Your Project #: OMEMA2002.2021E.100*
Your C.O.C. #: 45024

**Attention: Ryan Fletcher**

WSP E & I Canada Limited
Oakville - Standing Offer
2020 Winston Park Drive
Suite 600
Oakville , ON
CANADA L6H 6X7

**Report Date: 2022/12/07**
Report #: R7420422
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C2Z4083**
**Received: 2022/12/02, 09:30**

Sample Matrix: Air
# Samples Received: 1

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | 1 | N/A | 2022/12/06 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air by GC/MS/SIM (1) | 1 | N/A | 2022/12/06 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air (TO-15) (2) | 1 | N/A | 2022/12/06 | BRL SOP-00304 | EPA TO-15 m |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Your P.O. #: C02600346
Your Project #: OMEMA2002.2021E.100*
Your C.O.C. #: 45024

**Attention: Ryan Fletcher**

WSP E & I Canada Limited
Oakville - Standing Offer
2020 Winston Park Drive
Suite 600
Oakville , ON
CANADA L6H 6X7

**Report Date: 2022/12/07**
Report #: R7420422
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C2Z4083**
**Received: 2022/12/02, 09:30**

(2) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key

Marinela Sim
Project Manager
07 Dec 2022 17:50:56

Please direct all questions regarding this Certificate of Analysis to:
Marinela Sim, Project Manager
Email: Marinela.Sim@bureauveritas.com
Phone# (905)817-5828

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| Bureau Veritas ID | | ULY435 | ULY435 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2022/11/24 | 2022/11/24 | | |
| COC Number | | 45024 | 45024 | | |
| | UNITS | CNC-NOV.23/22/7861 | CNC-NOV.23/22/7861 Lab-Dup | RDL | QC Batch |
| **Volatile Organics** | | | | | |
| Pressure on Receipt | psig | (-1.4) | N/A | N/A | 8387732 |
| 2-Propanone | ppbv | 0.94 | 0.96 | 0.10 | 8387729 |
| Dichlorodifluoromethane (FREON 12) | ppbv | 0.50 | 0.52 | 0.20 | 8387443 |
| 1,2-Dichlorotetrafluoroethane | ppbv | <0.17 | <0.17 | 0.17 | 8387443 |
| Chloromethane | ppbv | 0.50 | 0.51 | 0.30 | 8387443 |
| Vinyl Chloride | ppbv | <0.020 | <0.020 | 0.020 | 8387729 |
| Chloroethane | ppbv | <0.30 | <0.30 | 0.30 | 8387443 |
| 1,3-Butadiene | ppbv | <0.50 | <0.50 | 0.50 | 8387443 |
| Trichlorofluoromethane (FREON 11) | ppbv | 0.28 | 0.29 | 0.20 | 8387443 |
| Ethanol (ethyl alcohol) | ppbv | 2.5 | 2.4 | 1.0 | 8387443 |
| Trichlorotrifluoroethane | ppbv | <0.15 | <0.15 | 0.15 | 8387443 |
| 2-propanol | ppbv | <1.0 | <1.0 | 1.0 | 8387443 |
| Methyl Ethyl Ketone (2-Butanone) | ppbv | 0.18 | 0.19 | 0.10 | 8387729 |
| Methyl Isobutyl Ketone | ppbv | <0.10 | <0.10 | 0.10 | 8387729 |
| Methyl Butyl Ketone (2-Hexanone) | ppbv | <1.0 | <1.0 | 1.0 | 8387443 |
| Methyl t-butyl ether (MTBE) | ppbv | <0.10 | <0.10 | 0.10 | 8387729 |
| Ethyl Acetate | ppbv | <1.0 | <1.0 | 1.0 | 8387443 |
| 1,1-Dichloroethylene | ppbv | <0.050 | <0.050 | 0.050 | 8387729 |
| cis-1,2-Dichloroethylene | ppbv | <0.050 | <0.050 | 0.050 | 8387729 |
| trans-1,2-Dichloroethylene | ppbv | <0.10 | <0.10 | 0.10 | 8387729 |
| Methylene Chloride(Dichloromethane) | ppbv | 0.117 | 0.127 | 0.050 | 8387729 |
| Chloroform | ppbv | <0.040 | <0.040 | 0.040 | 8387729 |
| Carbon Tetrachloride | ppbv | 0.100 | 0.102 | 0.050 | 8387729 |
| 1,1-Dichloroethane | ppbv | <0.050 | <0.050 | 0.050 | 8387729 |
| 1,2-Dichloroethane | ppbv | 0.023 | 0.024 | 0.010 | 8387729 |
| Ethylene Dibromide | ppbv | <0.010 | <0.010 | 0.010 | 8387729 |
| 1,1,1-Trichloroethane | ppbv | <0.050 | <0.050 | 0.050 | 8387729 |
| 1,1,2-Trichloroethane | ppbv | <0.012 | <0.012 | 0.012 | 8387729 |
| 1,1,2,2-Tetrachloroethane | ppbv | <0.0027 | <0.0027 | 0.0027 | 8387729 |
| cis-1,3-Dichloropropene | ppbv | <0.050 | <0.050 | 0.050 | 8387729 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| Bureau Veritas ID | | ULY435 | ULY435 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2022/11/24 | 2022/11/24 | | |
| COC Number | | 45024 | 45024 | | |
| | UNITS | CNC-NOV.23/22/7861 | CNC-NOV.23/22/7861 Lab-Dup | RDL | QC Batch |
| trans-1,3-Dichloropropene | ppbv | <0.050 | <0.050 | 0.050 | 8387729 |
| 1,2-Dichloropropane | ppbv | <0.050 | <0.050 | 0.050 | 8387729 |
| Bromomethane | ppbv | <0.050 | <0.050 | 0.050 | 8387729 |
| Bromoform | ppbv | <0.10 | <0.10 | 0.10 | 8387729 |
| Bromodichloromethane | ppbv | <0.20 | <0.20 | 0.20 | 8387443 |
| Dibromochloromethane | ppbv | <0.20 | <0.20 | 0.20 | 8387443 |
| Trichloroethylene | ppbv | <0.050 | <0.050 | 0.050 | 8387729 |
| Tetrachloroethylene | ppbv | <0.050 | <0.050 | 0.050 | 8387729 |
| Benzene | ppbv | 0.143 | 0.145 | 0.050 | 8387729 |
| Toluene | ppbv | 0.504 | 0.510 | 0.050 | 8387729 |
| Ethylbenzene | ppbv | <0.050 | <0.050 | 0.050 | 8387729 |
| p+m-Xylene | ppbv | 0.16 | 0.15 | 0.10 | 8387729 |
| o-Xylene | ppbv | 0.062 | 0.063 | 0.050 | 8387729 |
| Styrene | ppbv | <0.050 | <0.050 | 0.050 | 8387729 |
| 4-ethyltoluene | ppbv | <0.50 | <0.50 | 0.50 | 8387443 |
| 1,3,5-Trimethylbenzene | ppbv | <0.50 | <0.50 | 0.50 | 8387443 |
| 1,2,4-Trimethylbenzene | ppbv | <0.50 | <0.50 | 0.50 | 8387443 |
| Chlorobenzene | ppbv | <0.050 | <0.050 | 0.050 | 8387729 |
| Benzyl chloride | ppbv | <0.50 | <0.50 | 0.50 | 8387443 |
| 1,3-Dichlorobenzene | ppbv | <0.40 | <0.40 | 0.40 | 8387443 |
| 1,4-Dichlorobenzene | ppbv | <0.050 | <0.050 | 0.050 | 8387729 |
| 1,2-Dichlorobenzene | ppbv | <0.050 | <0.050 | 0.050 | 8387729 |
| 1,2,4-Trichlorobenzene | ppbv | <0.10 | <0.10 | 0.10 | 8387729 |
| Hexachlorobutadiene | ppbv | <0.0047 | <0.0047 | 0.0047 | 8387729 |
| Hexane | ppbv | 0.11 | 0.11 | 0.10 | 8387729 |
| Heptane | ppbv | <0.30 | <0.30 | 0.30 | 8387443 |
| Cyclohexane | ppbv | <0.20 | <0.20 | 0.20 | 8387443 |
| Tetrahydrofuran | ppbv | <0.40 | <0.40 | 0.40 | 8387443 |
| 1,4-Dioxane | ppbv | <1.0 | <1.0 | 1.0 | 8387443 |
| Naphthalene | ppbv | <0.10 | <0.10 | 0.10 | 8387729 |
| Total Xylenes | ppbv | 0.22 | 0.22 | 0.15 | 8387729 |
| 1,1,1,2-Tetrachloroethane | ppbv | <0.021 | <0.021 | 0.021 | 8387729 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| Bureau Veritas ID | | ULY435 | ULY435 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2022/11/24 | 2022/11/24 | | |
| COC Number | | 45024 | 45024 | | |
| | UNITS | CNC-NOV.23/22/7861 | CNC-NOV.23/22/7861 Lab-Dup | RDL | QC Batch |
| Vinyl Bromide | ppbv | <0.20 | <0.20 | 0.20 | 8387443 |
| Propene | ppbv | <0.50 | <0.50 | 0.50 | 8387443 |
| 2,2,4-Trimethylpentane | ppbv | <0.20 | <0.20 | 0.20 | 8387443 |
| Carbon Disulfide | ppbv | <0.50 | <0.50 | 0.50 | 8387443 |
| Vinyl Acetate | ppbv | <0.20 | <0.20 | 0.20 | 8387443 |
| **Surrogate Recovery (%)** | | | | | |
| Bromochloromethane | % | 101 | 99 | N/A | 8387729 |
| D5-Chlorobenzene | % | 93 | 91 | N/A | 8387729 |
| Difluorobenzene | % | 98 | 94 | N/A | 8387729 |
| Bromochloromethane | % | 101 | 99 | N/A | 8387443 |
| D5-Chlorobenzene | % | 93 | 91 | N/A | 8387443 |
| Difluorobenzene | % | 98 | 94 | N/A | 8387443 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2Z4083
Report Date: 2022/12/07

WSP E & I Canada Limited
Client Project #: OMEMA2002.2021E.100*
Your P.O. #: C02600346
Sampler Initials: AG

## TEST SUMMARY

**Bureau Veritas ID:** ULY435
**Sample ID:** CNC-NOV.23/22/7861
**Matrix:** Air

**Collected:** 2022/11/24
**Shipped:**
**Received:** 2022/12/02

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | PRES | 8387732 | N/A | 2022/12/06 | Pratima Patel |
| Volatile Organics in Air by GC/MS/SIM | GC/MS | 8387729 | N/A | 2022/12/06 | Pratima Patel |
| Volatile Organics in Air (TO-15) | GC/MS | 8387443 | N/A | 2022/12/06 | Pratima Patel |

**Bureau Veritas ID:** ULY435 Dup
**Sample ID:** CNC-NOV.23/22/7861
**Matrix:** Air

**Collected:** 2022/11/24
**Shipped:**
**Received:** 2022/12/02

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Volatile Organics in Air by GC/MS/SIM | GC/MS | 8387729 | N/A | 2022/12/06 | Pratima Patel |
| Volatile Organics in Air (TO-15) | GC/MS | 8387443 | N/A | 2022/12/06 | Pratima Patel |



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

# QUALITY ASSURANCE REPORT



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8387443 | Bromochloromethane | 2022/12/06 | 103 | 60 - 140 | 106 | % | | |
| 8387443 | D5-Chlorobenzene | 2022/12/06 | 106 | 60 - 140 | 94 | % | | |
| 8387443 | Difluorobenzene | 2022/12/06 | 105 | 60 - 140 | 103 | % | | |
| 8387729 | Bromochloromethane | 2022/12/06 | 104 | 60 - 140 | 106 | % | | |
| 8387729 | D5-Chlorobenzene | 2022/12/06 | 109 | 60 - 140 | 94 | % | | |
| 8387729 | Difluorobenzene | 2022/12/06 | 111 | 60 - 140 | 103 | % | | |
| 8387443 | 1,2,4-Trimethylbenzene | 2022/12/06 | 107 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8387443 | 1,2-Dichlorotetrafluoroethane | 2022/12/06 | 92 | 70 - 130 | <0.17 | ppbv | NC (1) | 25 |
| 8387443 | 1,3,5-Trimethylbenzene | 2022/12/06 | 102 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8387443 | 1,3-Butadiene | 2022/12/06 | 98 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8387443 | 1,3-Dichlorobenzene | 2022/12/06 | 100 | 70 - 130 | <0.40 | ppbv | NC (1) | 25 |
| 8387443 | 1,4-Dioxane | 2022/12/06 | 95 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 8387443 | 2,2,4-Trimethylpentane | 2022/12/06 | 103 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8387443 | 2-propanol | 2022/12/06 | 98 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 8387443 | 4-ethyltoluene | 2022/12/06 | 103 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8387443 | Benzyl chloride | 2022/12/06 | 119 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8387443 | Bromodichloromethane | 2022/12/06 | 91 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8387443 | Carbon Disulfide | 2022/12/06 | 100 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8387443 | Chloroethane | 2022/12/06 | 100 | 70 - 130 | <0.30 | ppbv | NC (1) | 25 |
| 8387443 | Chloromethane | 2022/12/06 | 97 | 70 - 130 | <0.30 | ppbv | 2.1 (1) | 25 |
| 8387443 | Cyclohexane | 2022/12/06 | 100 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8387443 | Dibromochloromethane | 2022/12/06 | 97 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8387443 | Dichlorodifluoromethane (FREON 12) | 2022/12/06 | 93 | 70 - 130 | <0.20 | ppbv | 3.3 (1) | 25 |
| 8387443 | Ethanol (ethyl alcohol) | 2022/12/06 | 97 | 70 - 130 | <1.0 | ppbv | 4.1 (1) | 25 |
| 8387443 | Ethyl Acetate | 2022/12/06 | 104 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 8387443 | Heptane | 2022/12/06 | 104 | 70 - 130 | <0.30 | ppbv | NC (1) | 25 |
| 8387443 | Methyl Butyl Ketone (2-Hexanone) | 2022/12/06 | 101 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 8387443 | Propene | 2022/12/06 | 99 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8387443 | Tetrahydrofuran | 2022/12/06 | 102 | 70 - 130 | <0.40 | ppbv | NC (1) | 25 |
| 8387443 | Trichlorofluoromethane (FREON 11) | 2022/12/06 | 95 | 70 - 130 | <0.20 | ppbv | 2.1 (1) | 25 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8387443 | Trichlorotrifluoroethane | 2022/12/06 | 91 | 70 - 130 | <0.15 | ppbv | NC (1) | 25 |
| 8387443 | Vinyl Acetate | 2022/12/06 | 101 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8387443 | Vinyl Bromide | 2022/12/06 | 102 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8387729 | 1,1,1,2-Tetrachloroethane | 2022/12/06 | 96 | 70 - 130 | <0.021 | ppbv | NC (1) | 25 |
| 8387729 | 1,1,1-Trichloroethane | 2022/12/06 | 92 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8387729 | 1,1,2,2-Tetrachloroethane | 2022/12/06 | 90 | 70 - 130 | <0.0027 | ppbv | NC (1) | 25 |
| 8387729 | 1,1,2-Trichloroethane | 2022/12/06 | 98 | 70 - 130 | <0.012 | ppbv | NC (1) | 25 |
| 8387729 | 1,1-Dichloroethane | 2022/12/06 | 94 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8387729 | 1,1-Dichloroethylene | 2022/12/06 | 99 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8387729 | 1,2,4-Trichlorobenzene | 2022/12/06 | 119 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8387729 | 1,2-Dichlorobenzene | 2022/12/06 | 99 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8387729 | 1,2-Dichloroethane | 2022/12/06 | 97 | 70 - 130 | <0.010 | ppbv | 4.3 (1) | 25 |
| 8387729 | 1,2-Dichloropropane | 2022/12/06 | 101 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8387729 | 1,4-Dichlorobenzene | 2022/12/06 | 101 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8387729 | 2-Propanone | 2022/12/06 | 97 | 70 - 130 | <0.10 | ppbv | NC (1) | N/A |
| 8387729 | Benzene | 2022/12/06 | 98 | 70 - 130 | <0.050 | ppbv | 1.3 (1) | 25 |
| 8387729 | Bromoform | 2022/12/06 | 96 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8387729 | Bromomethane | 2022/12/06 | 92 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8387729 | Carbon Tetrachloride | 2022/12/06 | 91 | 70 - 130 | <0.050 | ppbv | 2.0 (1) | 25 |
| 8387729 | Chlorobenzene | 2022/12/06 | 99 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8387729 | Chloroform | 2022/12/06 | 100 | 70 - 130 | <0.040 | ppbv | NC (1) | 25 |
| 8387729 | cis-1,2-Dichloroethylene | 2022/12/06 | 103 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8387729 | cis-1,3-Dichloropropene | 2022/12/06 | 104 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8387729 | Ethylbenzene | 2022/12/06 | 109 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8387729 | Ethylene Dibromide | 2022/12/06 | 101 | 70 - 130 | <0.010 | ppbv | NC (1) | 25 |
| 8387729 | Hexachlorobutadiene | 2022/12/06 | 124 | 70 - 130 | <0.0047 | ppbv | NC (1) | 25 |
| 8387729 | Hexane | 2022/12/06 | 102 | 70 - 130 | <0.10 | ppbv | 1.7 (1) | 25 |
| 8387729 | Methyl Ethyl Ketone (2-Butanone) | 2022/12/06 | 115 | 70 - 130 | <0.10 | ppbv | 2.5 (1) | 25 |
| 8387729 | Methyl Isobutyl Ketone | 2022/12/06 | 98 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8387729 | Methyl t-butyl ether (MTBE) | 2022/12/06 | 94 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8387729 | Methylene Chloride(Dichloromethane) | 2022/12/06 | 93 | 70 - 130 | <0.050 | ppbv | 8.3 (1) | 25 |
| 8387729 | Naphthalene | 2022/12/06 | 138 (2) | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8387729 | o-Xylene | 2022/12/06 | 102 | 70 - 130 | <0.050 | ppbv | 1.7 (1) | 25 |
| 8387729 | p+m-Xylene | 2022/12/06 | 107 | 70 - 130 | <0.10 | ppbv | 0.72 (1) | 25 |
| 8387729 | Styrene | 2022/12/06 | 104 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8387729 | Tetrachloroethylene | 2022/12/06 | 97 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8387729 | Toluene | 2022/12/06 | 104 | 70 - 130 | <0.050 | ppbv | 1.2 (1) | 25 |
| 8387729 | Total Xylenes | 2022/12/06 | 106 | 70 - 130 | <0.15 | ppbv | 0.028 (1) | 25 |
| 8387729 | trans-1,2-Dichloroethylene | 2022/12/06 | 96 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8387729 | trans-1,3-Dichloropropene | 2022/12/06 | 110 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8387729 | Trichloroethylene | 2022/12/06 | 98 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8387729 | Vinyl Chloride | 2022/12/06 | 100 | 70 - 130 | <0.020 | ppbv | NC (1) | 25 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Duplicate Parent ID [ULY435-01]

(2) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2Z4083
Report Date: 2022/12/07

WSP E & I Canada Limited
Client Project #: OMEMA2002.2021E.100*
Your P.O. #: C02600346
Sampler Initials: AG

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Yujie Yan

Yujie Yan, Senior Analyst

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.



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# Chain of Custody Form - Summa™ Canister

45024

BUREAU VERITAS
6740 Campobello Rd
Mississauga Ontario, L5N 2L8
www.bvlabs.com
Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

CAM FCD-01302 /3 Page 1 of 1

**INVOICE INFORMATION**

Company Name: CNC / Wood
Contact Name: Ryan Fletcher
Address: 160 Traders Blvd E Mississauga, ON
E-mail: ryan.fletcher@wsp.com
Ph: 905-568-2929
Sampled by: Adam Gauthier

**REPORT INFORMATION**

Company Name: CNC/Wood
Project Manager: Ryan Fletcher
Address: 160 Traders Blvd E, Mississauga, airgroup@woodplc.com
E-mail: ryan.fletcher@wsp.com
Ph: 905-568-2929

**ANALYSIS REQUESTED**

| Field Sample ID | Canister Serial # | Flow Regulator Serial # | Collection Date | START VACUUM (inches of Hg) | END VACUUM (inches of Hg) | SOIL VAPOUR | AMBIENT/INDOOR AIR | AMBIENT/COMMERCIAL/INDUSTRIAL | SUB-SLAB GAS | FULL LIST OF VOCs (reference TO15A) | BTEX/Aromatic/Aliphatic Hydrocarbon Fractions | BTEX/F1 (C6-C10) and F2 (C10-C16) | Selected VOC's - please specify | Other | | | | CANISTERS NOT USED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CNC - Nov. 23/22 | 7861 | FX1379 | Nov. 24-28. | -4 | | | X | | | X | | | | | | | | |

02-Dec-22 09 30
Gina Baybayan
C2Z4083
WKK AIR-001

**TAT Requirement**

- STD 10 Business day ☑
- Rush 5 Business day * ☐
- Rush 2 Business day * ☐
- Rush Other * ☐

* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2002.2021E.100*
Name:
PO #: C0260O346
Bureau Veritas Quote #:
Bureau Veritas Contact:
Task Order/Line Item

**REPORTING REQUIREMENTS**

EDD ☐
Regulations ON 153 ☐
ON 419 ☐
BC CSR ☐
Other

**Notes**

1) please indicate on chain of custody if your samples are soil vapour or ambient air
2) please list all canisters on the chain of custody even if unused

**PROJECT SPECIFIC COMMENTS**

Client Signature: [signature]
Date/Time: November 30/22.

Received by: Pawandeep Kaur Kular
Date/Time: 2022/12/02 9:30

**PLEASE RETURN ALL UNUSED EQUIPMENT**

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Maxxam's standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at www.bvlabs.com/terms-and-conditions*

COC-1003 (11/2019)

Your P.O. #: C02600346
Your Project #: OMEMA2002.2021E.100*
Your C.O.C. #: 45024

**Attention: Ryan Fletcher**

WSP E & I Canada Limited
Oakville - Standing Offer
2020 Winston Park Drive
Suite 600
Oakville , ON
CANADA L6H 6X7

**Report Date: 2022/12/07**
Report #: R7420422
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C2Z4083**
**Received: 2022/12/02, 09:30**

Sample Matrix: Air
# Samples Received: 1

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | 1 | N/A | 2022/12/06 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air by GC/MS/SIM (1) | 1 | N/A | 2022/12/06 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air (TO-15) (2) | 1 | N/A | 2022/12/06 | BRL SOP-00304 | EPA TO-15 m |

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

(2) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key

Marinela Sim
Project Manager
07 Dec 2022 17:50:57

Please direct all questions regarding this Certificate of Analysis to:
Marinela Sim, Project Manager
Email: Marinela.Sim@bureauveritas.com
Phone# (905)817-5828

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C2Z4083
Report Date: 2022/12/07

WSP E & I Canada Limited
Client Project #: OMEMA2002.2021E.100*
Your P.O. #: C02600346
Sampler Initials: AG

## RESULTS OF ANALYSES OF AIR

| **Bureau Veritas ID** | | ULY435 | |
|---|---|---|---|
| **Sampling Date** | | 2022/11/24 | |
| **COC Number** | | 45024 | |
| | **UNITS** | **CNC-NOV.23/22/7861** | **QC Batch** |
| **Volatile Organics** | | | |
| Pressure on Receipt | psig | (-1.4) | 8387732 |
| QC Batch = Quality Control Batch | | | |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## VOLATILE ORGANICS BY GC/MS (AIR)

| Bureau Veritas ID | | ULY435 | | | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2022/11/24 | | | | |
| COC Number | | 45024 | | | | |
| | UNITS | CNC-NOV.23/22/7861 | RDL | ug/m3 | DL (ug/m3) | QC Batch |
| **Volatile Organics** | | | | | | |
| 2-Propanone | ppbv | 0.94 | 0.10 | 2.23 | 0.238 | 8387729 |
| Dichlorodifluoromethane (FREON 12) | ppbv | 0.50 | 0.20 | 2.50 | 0.989 | 8387443 |
| 1,2-Dichlorotetrafluoroethane | ppbv | <0.17 | 0.17 | <1.19 | 1.19 | 8387443 |
| Chloromethane | ppbv | 0.50 | 0.30 | 1.02 | 0.620 | 8387443 |
| Vinyl Chloride | ppbv | <0.020 | 0.020 | <0.0511 | 0.0511 | 8387729 |
| Chloroethane | ppbv | <0.30 | 0.30 | <0.792 | 0.792 | 8387443 |
| 1,3-Butadiene | ppbv | <0.50 | 0.50 | <1.11 | 1.11 | 8387443 |
| Trichlorofluoromethane (FREON 11) | ppbv | 0.28 | 0.20 | 1.60 | 1.12 | 8387443 |
| Ethanol (ethyl alcohol) | ppbv | 2.5 | 1.0 | 4.69 | 1.88 | 8387443 |
| Trichlorotrifluoroethane | ppbv | <0.15 | 0.15 | <1.15 | 1.15 | 8387443 |
| 2-propanol | ppbv | <1.0 | 1.0 | <2.46 | 2.46 | 8387443 |
| Methyl Ethyl Ketone (2-Butanone) | ppbv | 0.18 | 0.10 | 0.545 | 0.295 | 8387729 |
| Methyl Isobutyl Ketone | ppbv | <0.10 | 0.10 | <0.410 | 0.410 | 8387729 |
| Methyl Butyl Ketone (2-Hexanone) | ppbv | <1.0 | 1.0 | <4.10 | 4.10 | 8387443 |
| Methyl t-butyl ether (MTBE) | ppbv | <0.10 | 0.10 | <0.361 | 0.361 | 8387729 |
| Ethyl Acetate | ppbv | <1.0 | 1.0 | <3.60 | 3.60 | 8387443 |
| 1,1-Dichloroethylene | ppbv | <0.050 | 0.050 | <0.198 | 0.198 | 8387729 |
| cis-1,2-Dichloroethylene | ppbv | <0.050 | 0.050 | <0.198 | 0.198 | 8387729 |
| trans-1,2-Dichloroethylene | ppbv | <0.10 | 0.10 | <0.396 | 0.396 | 8387729 |
| Methylene Chloride(Dichloromethane) | ppbv | 0.117 | 0.050 | 0.406 | 0.174 | 8387729 |
| Chloroform | ppbv | <0.040 | 0.040 | <0.195 | 0.195 | 8387729 |
| Carbon Tetrachloride | ppbv | 0.100 | 0.050 | 0.626 | 0.315 | 8387729 |
| 1,1-Dichloroethane | ppbv | <0.050 | 0.050 | <0.202 | 0.202 | 8387729 |
| 1,2-Dichloroethane | ppbv | 0.023 | 0.010 | 0.0922 | 0.0405 | 8387729 |
| Ethylene Dibromide | ppbv | <0.010 | 0.010 | <0.0768 | 0.0768 | 8387729 |
| 1,1,1-Trichloroethane | ppbv | <0.050 | 0.050 | <0.273 | 0.273 | 8387729 |
| 1,1,2-Trichloroethane | ppbv | <0.012 | 0.012 | <0.0655 | 0.0655 | 8387729 |
| 1,1,2,2-Tetrachloroethane | ppbv | <0.0027 | 0.0027 | <0.0185 | 0.0185 | 8387729 |
| cis-1,3-Dichloropropene | ppbv | <0.050 | 0.050 | <0.227 | 0.227 | 8387729 |
| trans-1,3-Dichloropropene | ppbv | <0.050 | 0.050 | <0.227 | 0.227 | 8387729 |
| 1,2-Dichloropropane | ppbv | <0.050 | 0.050 | <0.231 | 0.231 | 8387729 |
| Bromomethane | ppbv | <0.050 | 0.050 | <0.194 | 0.194 | 8387729 |
| Bromoform | ppbv | <0.10 | 0.10 | <1.03 | 1.03 | 8387729 |
| Bromodichloromethane | ppbv | <0.20 | 0.20 | <1.34 | 1.34 | 8387443 |
| Dibromochloromethane | ppbv | <0.20 | 0.20 | <1.70 | 1.70 | 8387443 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## VOLATILE ORGANICS BY GC/MS (AIR)

| Bureau Veritas ID | | ULY435 | | | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2022/11/24 | | | | |
| COC Number | | 45024 | | | | |
| | UNITS | CNC-NOV.23/22/7861 | RDL | ug/m3 | DL (ug/m3) | QC Batch |
| Trichloroethylene | ppbv | <0.050 | 0.050 | <0.269 | 0.269 | 8387729 |
| Tetrachloroethylene | ppbv | <0.050 | 0.050 | <0.339 | 0.339 | 8387729 |
| Benzene | ppbv | 0.143 | 0.050 | 0.456 | 0.160 | 8387729 |
| Toluene | ppbv | 0.504 | 0.050 | 1.90 | 0.188 | 8387729 |
| Ethylbenzene | ppbv | <0.050 | 0.050 | <0.217 | 0.217 | 8387729 |
| p+m-Xylene | ppbv | 0.16 | 0.10 | 0.673 | 0.434 | 8387729 |
| o-Xylene | ppbv | 0.062 | 0.050 | 0.268 | 0.217 | 8387729 |
| Styrene | ppbv | <0.050 | 0.050 | <0.213 | 0.213 | 8387729 |
| 4-ethyltoluene | ppbv | <0.50 | 0.50 | <2.46 | 2.46 | 8387443 |
| 1,3,5-Trimethylbenzene | ppbv | <0.50 | 0.50 | <2.45 | 2.45 | 8387443 |
| 1,2,4-Trimethylbenzene | ppbv | <0.50 | 0.50 | <2.45 | 2.45 | 8387443 |
| Chlorobenzene | ppbv | <0.050 | 0.050 | <0.230 | 0.230 | 8387729 |
| Benzyl chloride | ppbv | <0.50 | 0.50 | <2.59 | 2.59 | 8387443 |
| 1,3-Dichlorobenzene | ppbv | <0.40 | 0.40 | <2.40 | 2.40 | 8387443 |
| 1,4-Dichlorobenzene | ppbv | <0.050 | 0.050 | <0.301 | 0.301 | 8387729 |
| 1,2-Dichlorobenzene | ppbv | <0.050 | 0.050 | <0.301 | 0.301 | 8387729 |
| 1,2,4-Trichlorobenzene | ppbv | <0.10 | 0.10 | <0.742 | 0.742 | 8387729 |
| Hexachlorobutadiene | ppbv | <0.0047 | 0.0047 | <0.0501 | 0.0501 | 8387729 |
| Hexane | ppbv | 0.11 | 0.10 | 0.393 | 0.352 | 8387729 |
| Heptane | ppbv | <0.30 | 0.30 | <1.23 | 1.23 | 8387443 |
| Cyclohexane | ppbv | <0.20 | 0.20 | <0.688 | 0.688 | 8387443 |
| Tetrahydrofuran | ppbv | <0.40 | 0.40 | <1.18 | 1.18 | 8387443 |
| 1,4-Dioxane | ppbv | <1.0 | 1.0 | <3.60 | 3.60 | 8387443 |
| Naphthalene | ppbv | <0.10 | 0.10 | <0.524 | 0.524 | 8387729 |
| Total Xylenes | ppbv | 0.22 | 0.15 | 0.941 | 0.651 | 8387729 |
| 1,1,1,2-Tetrachloroethane | ppbv | <0.021 | 0.021 | <0.144 | 0.144 | 8387729 |
| Vinyl Bromide | ppbv | <0.20 | 0.20 | <0.875 | 0.875 | 8387443 |
| Propene | ppbv | <0.50 | 0.50 | <0.861 | 0.861 | 8387443 |
| 2,2,4-Trimethylpentane | ppbv | <0.20 | 0.20 | <0.934 | 0.934 | 8387443 |
| Carbon Disulfide | ppbv | <0.50 | 0.50 | <1.56 | 1.56 | 8387443 |
| Vinyl Acetate | ppbv | <0.20 | 0.20 | <0.704 | 0.704 | 8387443 |
| **Surrogate Recovery (%)** | | | | | | |
| Bromochloromethane | % | 101 | | N/A | N/A | 8387729 |
| D5-Chlorobenzene | % | 93 | | N/A | N/A | 8387729 |
| Difluorobenzene | % | 98 | | N/A | N/A | 8387729 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## VOLATILE ORGANICS BY GC/MS (AIR)

| **Bureau Veritas ID** | | ULY435 | | | | |
|---|---|---|---|---|---|---|
| **Sampling Date** | | 2022/11/24 | | | | |
| **COC Number** | | 45024 | | | | |
| | **UNITS** | **CNC-NOV.23/22/7861** | **RDL** | **ug/m3** | **DL (ug/m3)** | **QC Batch** |
| Bromochloromethane | % | 101 | | N/A | N/A | 8387443 |
| D5-Chlorobenzene | % | 93 | | N/A | N/A | 8387443 |
| Difluorobenzene | % | 98 | | N/A | N/A | 8387443 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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## GENERAL COMMENTS

**Results relate only to the items tested.**



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## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 8387443 | TIM | Spiked Blank | Bromochloromethane | 2022/12/06 | | 103 | % | 60 - 140 |
| | | | D5-Chlorobenzene | 2022/12/06 | | 106 | % | 60 - 140 |
| | | | Difluorobenzene | 2022/12/06 | | 105 | % | 60 - 140 |
| | | | Dichlorodifluoromethane (FREON 12) | 2022/12/06 | | 93 | % | 70 - 130 |
| | | | 1,2-Dichlorotetrafluoroethane | 2022/12/06 | | 92 | % | 70 - 130 |
| | | | Chloromethane | 2022/12/06 | | 97 | % | 70 - 130 |
| | | | Chloroethane | 2022/12/06 | | 100 | % | 70 - 130 |
| | | | 1,3-Butadiene | 2022/12/06 | | 98 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2022/12/06 | | 95 | % | 70 - 130 |
| | | | Ethanol (ethyl alcohol) | 2022/12/06 | | 97 | % | 70 - 130 |
| | | | Trichlorotrifluoroethane | 2022/12/06 | | 91 | % | 70 - 130 |
| | | | 2-propanol | 2022/12/06 | | 98 | % | 70 - 130 |
| | | | Methyl Butyl Ketone (2-Hexanone) | 2022/12/06 | | 101 | % | 70 - 130 |
| | | | Ethyl Acetate | 2022/12/06 | | 104 | % | 70 - 130 |
| | | | Bromodichloromethane | 2022/12/06 | | 91 | % | 70 - 130 |
| | | | Dibromochloromethane | 2022/12/06 | | 97 | % | 70 - 130 |
| | | | 4-ethyltoluene | 2022/12/06 | | 103 | % | 70 - 130 |
| | | | 1,3,5-Trimethylbenzene | 2022/12/06 | | 102 | % | 70 - 130 |
| | | | 1,2,4-Trimethylbenzene | 2022/12/06 | | 107 | % | 70 - 130 |
| | | | Benzyl chloride | 2022/12/06 | | 119 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2022/12/06 | | 100 | % | 70 - 130 |
| | | | Heptane | 2022/12/06 | | 104 | % | 70 - 130 |
| | | | Cyclohexane | 2022/12/06 | | 100 | % | 70 - 130 |
| | | | Tetrahydrofuran | 2022/12/06 | | 102 | % | 70 - 130 |
| | | | 1,4-Dioxane | 2022/12/06 | | 95 | % | 70 - 130 |
| | | | Vinyl Bromide | 2022/12/06 | | 102 | % | 70 - 130 |
| | | | Propene | 2022/12/06 | | 99 | % | 70 - 130 |
| | | | 2,2,4-Trimethylpentane | 2022/12/06 | | 103 | % | 70 - 130 |
| | | | Carbon Disulfide | 2022/12/06 | | 100 | % | 70 - 130 |
| | | | Vinyl Acetate | 2022/12/06 | | 101 | % | 70 - 130 |
| 8387443 | TIM | Method Blank | Bromochloromethane | 2022/12/06 | | 106 | % | 60 - 140 |
| | | | D5-Chlorobenzene | 2022/12/06 | | 94 | % | 60 - 140 |
| | | | Difluorobenzene | 2022/12/06 | | 103 | % | 60 - 140 |
| | | | Dichlorodifluoromethane (FREON 12) | 2022/12/06 | <0.20 | | ppbv | |
| | | | 1,2-Dichlorotetrafluoroethane | 2022/12/06 | <0.17 | | ppbv | |
| | | | Chloromethane | 2022/12/06 | <0.30 | | ppbv | |
| | | | Chloroethane | 2022/12/06 | <0.30 | | ppbv | |
| | | | 1,3-Butadiene | 2022/12/06 | <0.50 | | ppbv | |
| | | | Trichlorofluoromethane (FREON 11) | 2022/12/06 | <0.20 | | ppbv | |
| | | | Ethanol (ethyl alcohol) | 2022/12/06 | <1.0 | | ppbv | |
| | | | Trichlorotrifluoroethane | 2022/12/06 | <0.15 | | ppbv | |
| | | | 2-propanol | 2022/12/06 | <1.0 | | ppbv | |
| | | | Methyl Butyl Ketone (2-Hexanone) | 2022/12/06 | <1.0 | | ppbv | |
| | | | Ethyl Acetate | 2022/12/06 | <1.0 | | ppbv | |
| | | | Bromodichloromethane | 2022/12/06 | <0.20 | | ppbv | |
| | | | Dibromochloromethane | 2022/12/06 | <0.20 | | ppbv | |
| | | | 4-ethyltoluene | 2022/12/06 | <0.50 | | ppbv | |
| | | | 1,3,5-Trimethylbenzene | 2022/12/06 | <0.50 | | ppbv | |
| | | | 1,2,4-Trimethylbenzene | 2022/12/06 | <0.50 | | ppbv | |
| | | | Benzyl chloride | 2022/12/06 | <0.50 | | ppbv | |
| | | | 1,3-Dichlorobenzene | 2022/12/06 | <0.40 | | ppbv | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Heptane | 2022/12/06 | <0.30 | | ppbv | |
| | | | Cyclohexane | 2022/12/06 | <0.20 | | ppbv | |
| | | | Tetrahydrofuran | 2022/12/06 | <0.40 | | ppbv | |
| | | | 1,4-Dioxane | 2022/12/06 | <1.0 | | ppbv | |
| | | | Vinyl Bromide | 2022/12/06 | <0.20 | | ppbv | |
| | | | Propene | 2022/12/06 | <0.50 | | ppbv | |
| | | | 2,2,4-Trimethylpentane | 2022/12/06 | <0.20 | | ppbv | |
| | | | Carbon Disulfide | 2022/12/06 | <0.50 | | ppbv | |
| | | | Vinyl Acetate | 2022/12/06 | <0.20 | | ppbv | |
| 8387443 | TIM | RPD [ULY435-01] | Dichlorodifluoromethane (FREON 12) | 2022/12/06 | 3.3 | | % | 25 |
| | | | 1,2-Dichlorotetrafluoroethane | 2022/12/06 | NC | | % | 25 |
| | | | Chloromethane | 2022/12/06 | 2.1 | | % | 25 |
| | | | Chloroethane | 2022/12/06 | NC | | % | 25 |
| | | | 1,3-Butadiene | 2022/12/06 | NC | | % | 25 |
| | | | Trichlorofluoromethane (FREON 11) | 2022/12/06 | 2.1 | | % | 25 |
| | | | Ethanol (ethyl alcohol) | 2022/12/06 | 4.1 | | % | 25 |
| | | | Trichlorotrifluoroethane | 2022/12/06 | NC | | % | 25 |
| | | | 2-propanol | 2022/12/06 | NC | | % | 25 |
| | | | Methyl Butyl Ketone (2-Hexanone) | 2022/12/06 | NC | | % | 25 |
| | | | Ethyl Acetate | 2022/12/06 | NC | | % | 25 |
| | | | Bromodichloromethane | 2022/12/06 | NC | | % | 25 |
| | | | Dibromochloromethane | 2022/12/06 | NC | | % | 25 |
| | | | 4-ethyltoluene | 2022/12/06 | NC | | % | 25 |
| | | | 1,3,5-Trimethylbenzene | 2022/12/06 | NC | | % | 25 |
| | | | 1,2,4-Trimethylbenzene | 2022/12/06 | NC | | % | 25 |
| | | | Benzyl chloride | 2022/12/06 | NC | | % | 25 |
| | | | 1,3-Dichlorobenzene | 2022/12/06 | NC | | % | 25 |
| | | | Heptane | 2022/12/06 | NC | | % | 25 |
| | | | Cyclohexane | 2022/12/06 | NC | | % | 25 |
| | | | Tetrahydrofuran | 2022/12/06 | NC | | % | 25 |
| | | | 1,4-Dioxane | 2022/12/06 | NC | | % | 25 |
| | | | Vinyl Bromide | 2022/12/06 | NC | | % | 25 |
| | | | Propene | 2022/12/06 | NC | | % | 25 |
| | | | 2,2,4-Trimethylpentane | 2022/12/06 | NC | | % | 25 |
| | | | Carbon Disulfide | 2022/12/06 | NC | | % | 25 |
| | | | Vinyl Acetate | 2022/12/06 | NC | | % | 25 |
| 8387729 | TIM | Spiked Blank | 2-Propanone | 2022/12/06 | | 97 | % | 70 - 130 |
| | | | Bromochloromethane | 2022/12/06 | | 104 | % | 60 - 140 |
| | | | D5-Chlorobenzene | 2022/12/06 | | 109 | % | 60 - 140 |
| | | | Difluorobenzene | 2022/12/06 | | 111 | % | 60 - 140 |
| | | | Vinyl Chloride | 2022/12/06 | | 100 | % | 70 - 130 |
| | | | Methyl Ethyl Ketone (2-Butanone) | 2022/12/06 | | 115 | % | 70 - 130 |
| | | | Methyl Isobutyl Ketone | 2022/12/06 | | 98 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2022/12/06 | | 94 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2022/12/06 | | 99 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2022/12/06 | | 103 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2022/12/06 | | 96 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2022/12/06 | | 93 | % | 70 - 130 |
| | | | Chloroform | 2022/12/06 | | 100 | % | 70 - 130 |
| | | | Carbon Tetrachloride | 2022/12/06 | | 91 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2022/12/06 | | 94 | % | 70 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | 1,2-Dichloroethane | 2022/12/06 | | 97 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2022/12/06 | | 101 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2022/12/06 | | 92 | % | 70 - 130 |
| | | | 1,1,2-Trichloroethane | 2022/12/06 | | 98 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2022/12/06 | | 90 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2022/12/06 | | 104 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2022/12/06 | | 110 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2022/12/06 | | 101 | % | 70 - 130 |
| | | | Bromomethane | 2022/12/06 | | 92 | % | 70 - 130 |
| | | | Bromoform | 2022/12/06 | | 96 | % | 70 - 130 |
| | | | Trichloroethylene | 2022/12/06 | | 98 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2022/12/06 | | 97 | % | 70 - 130 |
| | | | Benzene | 2022/12/06 | | 98 | % | 70 - 130 |
| | | | Toluene | 2022/12/06 | | 104 | % | 70 - 130 |
| | | | Ethylbenzene | 2022/12/06 | | 109 | % | 70 - 130 |
| | | | p+m-Xylene | 2022/12/06 | | 107 | % | 70 - 130 |
| | | | o-Xylene | 2022/12/06 | | 102 | % | 70 - 130 |
| | | | Styrene | 2022/12/06 | | 104 | % | 70 - 130 |
| | | | Chlorobenzene | 2022/12/06 | | 99 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2022/12/06 | | 101 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2022/12/06 | | 99 | % | 70 - 130 |
| | | | 1,2,4-Trichlorobenzene | 2022/12/06 | | 119 | % | 70 - 130 |
| | | | Hexachlorobutadiene | 2022/12/06 | | 124 | % | 70 - 130 |
| | | | Hexane | 2022/12/06 | | 102 | % | 70 - 130 |
| | | | Naphthalene | 2022/12/06 | | 138 (1) | % | 70 - 130 |
| | | | Total Xylenes | 2022/12/06 | | 106 | % | 70 - 130 |
| | | | 1,1,1,2-Tetrachloroethane | 2022/12/06 | | 96 | % | 70 - 130 |
| 8387729 | TIM | Method Blank | 2-Propanone | 2022/12/06 | <0.10 | | ppbv | |
| | | | Bromochloromethane | 2022/12/06 | | 106 | % | 60 - 140 |
| | | | D5-Chlorobenzene | 2022/12/06 | | 94 | % | 60 - 140 |
| | | | Difluorobenzene | 2022/12/06 | | 103 | % | 60 - 140 |
| | | | Vinyl Chloride | 2022/12/06 | <0.020 | | ppbv | |
| | | | Methyl Ethyl Ketone (2-Butanone) | 2022/12/06 | <0.10 | | ppbv | |
| | | | Methyl Isobutyl Ketone | 2022/12/06 | <0.10 | | ppbv | |
| | | | Methyl t-butyl ether (MTBE) | 2022/12/06 | <0.10 | | ppbv | |
| | | | 1,1-Dichloroethylene | 2022/12/06 | <0.050 | | ppbv | |
| | | | cis-1,2-Dichloroethylene | 2022/12/06 | <0.050 | | ppbv | |
| | | | trans-1,2-Dichloroethylene | 2022/12/06 | <0.10 | | ppbv | |
| | | | Methylene Chloride(Dichloromethane) | 2022/12/06 | <0.050 | | ppbv | |
| | | | Chloroform | 2022/12/06 | <0.040 | | ppbv | |
| | | | Carbon Tetrachloride | 2022/12/06 | <0.050 | | ppbv | |
| | | | 1,1-Dichloroethane | 2022/12/06 | <0.050 | | ppbv | |
| | | | 1,2-Dichloroethane | 2022/12/06 | <0.010 | | ppbv | |
| | | | Ethylene Dibromide | 2022/12/06 | <0.010 | | ppbv | |
| | | | 1,1,1-Trichloroethane | 2022/12/06 | <0.050 | | ppbv | |
| | | | 1,1,2-Trichloroethane | 2022/12/06 | <0.012 | | ppbv | |
| | | | 1,1,2,2-Tetrachloroethane | 2022/12/06 | <0.0027 | | ppbv | |
| | | | cis-1,3-Dichloropropene | 2022/12/06 | <0.050 | | ppbv | |
| | | | trans-1,3-Dichloropropene | 2022/12/06 | <0.050 | | ppbv | |
| | | | 1,2-Dichloropropane | 2022/12/06 | <0.050 | | ppbv | |
| | | | Bromomethane | 2022/12/06 | <0.050 | | ppbv | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Bromoform | 2022/12/06 | <0.10 | | ppbv | |
| | | | Trichloroethylene | 2022/12/06 | <0.050 | | ppbv | |
| | | | Tetrachloroethylene | 2022/12/06 | <0.050 | | ppbv | |
| | | | Benzene | 2022/12/06 | <0.050 | | ppbv | |
| | | | Toluene | 2022/12/06 | <0.050 | | ppbv | |
| | | | Ethylbenzene | 2022/12/06 | <0.050 | | ppbv | |
| | | | p+m-Xylene | 2022/12/06 | <0.10 | | ppbv | |
| | | | o-Xylene | 2022/12/06 | <0.050 | | ppbv | |
| | | | Styrene | 2022/12/06 | <0.050 | | ppbv | |
| | | | Chlorobenzene | 2022/12/06 | <0.050 | | ppbv | |
| | | | 1,4-Dichlorobenzene | 2022/12/06 | <0.050 | | ppbv | |
| | | | 1,2-Dichlorobenzene | 2022/12/06 | <0.050 | | ppbv | |
| | | | 1,2,4-Trichlorobenzene | 2022/12/06 | <0.10 | | ppbv | |
| | | | Hexachlorobutadiene | 2022/12/06 | <0.0047 | | ppbv | |
| | | | Hexane | 2022/12/06 | <0.10 | | ppbv | |
| | | | Naphthalene | 2022/12/06 | <0.10 | | ppbv | |
| | | | Total Xylenes | 2022/12/06 | <0.15 | | ppbv | |
| | | | 1,1,1,2-Tetrachloroethane | 2022/12/06 | <0.021 | | ppbv | |
| 8387729 | TIM | RPD [ULY435-01] | 2-Propanone | 2022/12/06 | NC | | % | N/A |
| | | | Vinyl Chloride | 2022/12/06 | NC | | % | 25 |
| | | | Methyl Ethyl Ketone (2-Butanone) | 2022/12/06 | 2.5 | | % | 25 |
| | | | Methyl Isobutyl Ketone | 2022/12/06 | NC | | % | 25 |
| | | | Methyl t-butyl ether (MTBE) | 2022/12/06 | NC | | % | 25 |
| | | | 1,1-Dichloroethylene | 2022/12/06 | NC | | % | 25 |
| | | | cis-1,2-Dichloroethylene | 2022/12/06 | NC | | % | 25 |
| | | | trans-1,2-Dichloroethylene | 2022/12/06 | NC | | % | 25 |
| | | | Methylene Chloride(Dichloromethane) | 2022/12/06 | 8.3 | | % | 25 |
| | | | Chloroform | 2022/12/06 | NC | | % | 25 |
| | | | Carbon Tetrachloride | 2022/12/06 | 2.0 | | % | 25 |
| | | | 1,1-Dichloroethane | 2022/12/06 | NC | | % | 25 |
| | | | 1,2-Dichloroethane | 2022/12/06 | 4.3 | | % | 25 |
| | | | Ethylene Dibromide | 2022/12/06 | NC | | % | 25 |
| | | | 1,1,1-Trichloroethane | 2022/12/06 | NC | | % | 25 |
| | | | 1,1,2-Trichloroethane | 2022/12/06 | NC | | % | 25 |
| | | | 1,1,2,2-Tetrachloroethane | 2022/12/06 | NC | | % | 25 |
| | | | cis-1,3-Dichloropropene | 2022/12/06 | NC | | % | 25 |
| | | | trans-1,3-Dichloropropene | 2022/12/06 | NC | | % | 25 |
| | | | 1,2-Dichloropropane | 2022/12/06 | NC | | % | 25 |
| | | | Bromomethane | 2022/12/06 | NC | | % | 25 |
| | | | Bromoform | 2022/12/06 | NC | | % | 25 |
| | | | Trichloroethylene | 2022/12/06 | NC | | % | 25 |
| | | | Tetrachloroethylene | 2022/12/06 | NC | | % | 25 |
| | | | Benzene | 2022/12/06 | 1.3 | | % | 25 |
| | | | Toluene | 2022/12/06 | 1.2 | | % | 25 |
| | | | Ethylbenzene | 2022/12/06 | NC | | % | 25 |
| | | | p+m-Xylene | 2022/12/06 | 0.72 | | % | 25 |
| | | | o-Xylene | 2022/12/06 | 1.7 | | % | 25 |
| | | | Styrene | 2022/12/06 | NC | | % | 25 |
| | | | Chlorobenzene | 2022/12/06 | NC | | % | 25 |
| | | | 1,4-Dichlorobenzene | 2022/12/06 | NC | | % | 25 |
| | | | 1,2-Dichlorobenzene | 2022/12/06 | NC | | % | 25 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | 1,2,4-Trichlorobenzene | 2022/12/06 | NC | | % | 25 |
| | | | Hexachlorobutadiene | 2022/12/06 | NC | | % | 25 |
| | | | Hexane | 2022/12/06 | 1.7 | | % | 25 |
| | | | Naphthalene | 2022/12/06 | NC | | % | 25 |
| | | | Total Xylenes | 2022/12/06 | 0.028 | | % | 25 |
| | | | 1,1,1,2-Tetrachloroethane | 2022/12/06 | NC | | % | 25 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2Z4083
Report Date: 2022/12/07

WSP E & I Canada Limited
Client Project #: OMEMA2002.2021E.100*
Your P.O. #: C02600346
Sampler Initials: AG

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Yujie Yan

Yujie Yan, Senior Analyst

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: NA

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/02/03**
Report #: R7496024
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C321371**
**Received: 2023/01/24, 08:48**

Sample Matrix: Air
# Samples Received: 2

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | 2 | N/A | 2023/01/31 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air by GC/MS/SIM (1) | 2 | N/A | 2023/01/31 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air (TO-15) (2) | 2 | N/A | 2023/01/31 | BRL SOP-00304 | EPA TO-15 m |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

(2) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: NA

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/02/03**
Report #: R7496024
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C321371**
**Received: 2023/01/24, 08:48**

analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key

Marinela Sim
Project Manager
06 Feb 2023 17:26:36

Please direct all questions regarding this Certificate of Analysis to:
Marinela Sim, Project Manager
Email: Marinela.Sim@bureauveritas.com
Phone# (905)817-5828

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| Bureau Veritas ID | | UWL695 | UWL695 | | UWL696 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2022/12/17 | 2022/12/17 | | | | |
| COC Number | | NA | NA | | NA | | |
| | UNITS | SUMA SX1984 | SUMA SX1984 Lab-Dup | RDL | SX2434 | RDL | QC Batch |
| **Volatile Organics** | | | | | | | |
| Pressure on Receipt | psig | 0.70 | N/A | N/A | 0 | N/A | 8478371 |
| 2-Propanone | ppbv | 1.24 | 1.27 | 0.12 | 4.25 | 0.12 | 8478363 |
| Dichlorodifluoromethane (FREON 12) | ppbv | 0.49 | 0.51 | 0.20 | 0.62 | 0.20 | 8478360 |
| 1,2-Dichlorotetrafluoroethane | ppbv | <0.17 | <0.17 | 0.17 | <0.17 | 0.17 | 8478360 |
| Chloromethane | ppbv | 0.40 | 0.41 | 0.30 | 0.45 | 0.30 | 8478360 |
| Vinyl Chloride | ppbv | <0.020 | <0.020 | 0.020 | <0.020 | 0.020 | 8478363 |
| Chloroethane | ppbv | <0.30 | <0.30 | 0.30 | <0.30 | 0.30 | 8478360 |
| 1,3-Butadiene | ppbv | <0.50 | <0.50 | 0.50 | <0.50 | 0.50 | 8478360 |
| Trichlorofluoromethane (FREON 11) | ppbv | 0.25 | 0.26 | 0.20 | 0.30 | 0.20 | 8478360 |
| Ethanol (ethyl alcohol) | ppbv | 1.3 | 1.4 | 1.0 | 15.1 | 2.0 | 8478360 |
| Trichlorotrifluoroethane | ppbv | <0.15 | <0.15 | 0.15 | <0.15 | 0.15 | 8478360 |
| 2-propanol | ppbv | <1.0 | <1.0 | 1.0 | <1.0 | 1.0 | 8478360 |
| Methyl Ethyl Ketone (2-Butanone) | ppbv | 0.22 | 0.22 | 0.10 | 0.48 | 0.10 | 8478363 |
| Methyl Isobutyl Ketone | ppbv | <0.10 | <0.10 | 0.10 | <0.10 | 0.10 | 8478363 |
| Methyl Butyl Ketone (2-Hexanone) | ppbv | <1.0 | <1.0 | 1.0 | <1.0 | 1.0 | 8478360 |
| Methyl t-butyl ether (MTBE) | ppbv | <0.10 | <0.10 | 0.10 | <0.10 | 0.10 | 8478363 |
| Ethyl Acetate | ppbv | <1.0 | <1.0 | 1.0 | <1.0 | 1.0 | 8478360 |
| 1,1-Dichloroethylene | ppbv | <0.050 | <0.050 | 0.050 | <0.050 | 0.050 | 8478363 |
| cis-1,2-Dichloroethylene | ppbv | <0.050 | <0.050 | 0.050 | <0.050 | 0.050 | 8478363 |
| trans-1,2-Dichloroethylene | ppbv | <0.10 | <0.10 | 0.10 | <0.10 | 0.10 | 8478363 |
| Methylene Chloride(Dichloromethane) | ppbv | 0.106 | 0.113 | 0.050 | 0.143 | 0.050 | 8478363 |
| Chloroform | ppbv | <0.040 | <0.040 | 0.040 | 0.205 | 0.040 | 8478363 |
| Carbon Tetrachloride | ppbv | 0.086 | 0.088 | 0.050 | 0.076 | 0.050 | 8478363 |
| 1,1-Dichloroethane | ppbv | <0.050 | <0.050 | 0.050 | <0.050 | 0.050 | 8478363 |
| 1,2-Dichloroethane | ppbv | 0.019 | 0.020 | 0.010 | 0.018 | 0.010 | 8478363 |
| Ethylene Dibromide | ppbv | <0.010 | <0.010 | 0.010 | <0.010 | 0.010 | 8478363 |
| 1,1,1-Trichloroethane | ppbv | <0.050 | <0.050 | 0.050 | <0.050 | 0.050 | 8478363 |
| 1,1,2-Trichloroethane | ppbv | <0.012 | <0.012 | 0.012 | <0.012 | 0.012 | 8478363 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| Bureau Veritas ID | | UWL695 | UWL695 | | UWL696 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2022/12/17 | 2022/12/17 | | | | |
| COC Number | | NA | NA | | NA | | |
| | UNITS | SUMA SX1984 | SUMA SX1984 Lab-Dup | RDL | SX2434 | RDL | QC Batch |
| 1,1,2,2-Tetrachloroethane | ppbv | <0.0027 | <0.0027 | 0.0027 | <0.0027 | 0.0027 | 8478363 |
| cis-1,3-Dichloropropene | ppbv | <0.050 | <0.050 | 0.050 | <0.050 | 0.050 | 8478363 |
| trans-1,3-Dichloropropene | ppbv | <0.050 | <0.050 | 0.050 | <0.050 | 0.050 | 8478363 |
| 1,2-Dichloropropane | ppbv | <0.050 | <0.050 | 0.050 | <0.050 | 0.050 | 8478363 |
| Bromomethane | ppbv | <0.050 | <0.050 | 0.050 | <0.050 | 0.050 | 8478363 |
| Bromoform | ppbv | <0.10 | <0.10 | 0.10 | <0.10 | 0.10 | 8478363 |
| Bromodichloromethane | ppbv | <0.20 | <0.20 | 0.20 | <0.20 | 0.20 | 8478360 |
| Dibromochloromethane | ppbv | <0.20 | <0.20 | 0.20 | <0.20 | 0.20 | 8478360 |
| Trichloroethylene | ppbv | <0.050 | <0.050 | 0.050 | <0.050 | 0.050 | 8478363 |
| Tetrachloroethylene | ppbv | <0.050 | <0.050 | 0.050 | <0.050 | 0.050 | 8478363 |
| Benzene | ppbv | 0.153 | 0.157 | 0.050 | 0.119 | 0.050 | 8478363 |
| Toluene | ppbv | 0.139 | 0.145 | 0.050 | 0.260 | 0.050 | 8478363 |
| Ethylbenzene | ppbv | 0.065 | 0.064 | 0.050 | 0.136 | 0.050 | 8478363 |
| p+m-Xylene | ppbv | 0.11 | 0.11 | 0.10 | 0.22 | 0.10 | 8478363 |
| o-Xylene | ppbv | <0.050 | <0.050 | 0.050 | 0.088 | 0.050 | 8478363 |
| Styrene | ppbv | <0.050 | <0.050 | 0.050 | <0.050 | 0.050 | 8478363 |
| 4-ethyltoluene | ppbv | <0.50 | <0.50 | 0.50 | <0.50 | 0.50 | 8478360 |
| 1,3,5-Trimethylbenzene | ppbv | <0.50 | <0.50 | 0.50 | <0.50 | 0.50 | 8478360 |
| 1,2,4-Trimethylbenzene | ppbv | <0.50 | <0.50 | 0.50 | <0.50 | 0.50 | 8478360 |
| Chlorobenzene | ppbv | <0.050 | <0.050 | 0.050 | <0.050 | 0.050 | 8478363 |
| Benzyl chloride | ppbv | <0.50 | <0.50 | 0.50 | <0.50 | 0.50 | 8478360 |
| 1,3-Dichlorobenzene | ppbv | <0.40 | <0.40 | 0.40 | <0.40 | 0.40 | 8478360 |
| 1,4-Dichlorobenzene | ppbv | <0.050 | <0.050 | 0.050 | <0.050 | 0.050 | 8478363 |
| 1,2-Dichlorobenzene | ppbv | <0.050 | <0.050 | 0.050 | <0.050 | 0.050 | 8478363 |
| 1,2,4-Trichlorobenzene | ppbv | <0.10 | <0.10 | 0.10 | <0.10 | 0.10 | 8478363 |
| Hexachlorobutadiene | ppbv | <0.0047 | <0.0047 | 0.0047 | <0.0047 | 0.0047 | 8478363 |
| Hexane | ppbv | 0.17 | 0.17 | 0.10 | 0.12 | 0.10 | 8478363 |
| Heptane | ppbv | <0.30 | <0.30 | 0.30 | <0.30 | 0.30 | 8478360 |
| Cyclohexane | ppbv | <0.20 | <0.20 | 0.20 | <0.20 | 0.20 | 8478360 |
| Tetrahydrofuran | ppbv | <0.40 | <0.40 | 0.40 | 0.49 | 0.40 | 8478360 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| **Bureau Veritas ID** | | UWL695 | UWL695 | | UWL696 | | |
|---|---|---|---|---|---|---|---|
| **Sampling Date** | | 2022/12/17 | 2022/12/17 | | | | |
| **COC Number** | | NA | NA | | NA | | |
| | **UNITS** | **SUMA SX1984** | **SUMA SX1984 Lab-Dup** | **RDL** | **SX2434** | **RDL** | **QC Batch** |
| 1,4-Dioxane | ppbv | <1.0 | <1.0 | 1.0 | <1.0 | 1.0 | 8478360 |
| Naphthalene | ppbv | <0.10 | <0.10 | 0.10 | <0.10 | 0.10 | 8478363 |
| Total Xylenes | ppbv | <0.15 | <0.15 | 0.15 | 0.31 | 0.15 | 8478363 |
| 1,1,1,2-Tetrachloroethane | ppbv | <0.021 | <0.021 | 0.021 | <0.021 | 0.021 | 8478363 |
| Vinyl Bromide | ppbv | <0.20 | <0.20 | 0.20 | <0.20 | 0.20 | 8478360 |
| Propene | ppbv | <1.0 | <1.0 | 1.0 | <1.3 | 1.3 | 8478360 |
| 2,2,4-Trimethylpentane | ppbv | <0.20 | <0.20 | 0.20 | 1.62 | 0.20 | 8478360 |
| Carbon Disulfide | ppbv | <0.50 | <0.50 | 0.50 | <0.50 | 0.50 | 8478360 |
| Vinyl Acetate | ppbv | <0.20 | <0.20 | 0.20 | <0.20 | 0.20 | 8478360 |
| **Surrogate Recovery (%)** | | | | | | | |
| Bromochloromethane | % | 81 | 78 | N/A | 75 | N/A | 8478363 |
| D5-Chlorobenzene | % | 77 | 73 | N/A | 70 | N/A | 8478363 |
| Difluorobenzene | % | 74 | 70 | N/A | 66 | N/A | 8478363 |
| Bromochloromethane | % | 81 | 78 | N/A | 75 | N/A | 8478360 |
| D5-Chlorobenzene | % | 77 | 73 | N/A | 70 | N/A | 8478360 |
| Difluorobenzene | % | 74 | 70 | N/A | 66 | N/A | 8478360 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C321371
Report Date: 2023/02/03

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** UWL695
**Sample ID:** SUMA SX1984
**Matrix:** Air

**Collected:** 2022/12/17
**Shipped:**
**Received:** 2023/01/24

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | PRES | 8478371 | N/A | 2023/01/31 | Pratima Patel |
| Volatile Organics in Air by GC/MS/SIM | GC/MS | 8478363 | N/A | 2023/01/31 | Pratima Patel |
| Volatile Organics in Air (TO-15) | GC/MS | 8478360 | N/A | 2023/01/31 | Pratima Patel |

**Bureau Veritas ID:** UWL695 Dup
**Sample ID:** SUMA SX1984
**Matrix:** Air

**Collected:** 2022/12/17
**Shipped:**
**Received:** 2023/01/24

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Volatile Organics in Air by GC/MS/SIM | GC/MS | 8478363 | N/A | 2023/01/31 | Pratima Patel |
| Volatile Organics in Air (TO-15) | GC/MS | 8478360 | N/A | 2023/01/31 | Pratima Patel |

**Bureau Veritas ID:** UWL696
**Sample ID:** SX2434
**Matrix:** Air

**Collected:**
**Shipped:**
**Received:** 2023/01/24

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | PRES | 8478371 | N/A | 2023/01/31 | Pratima Patel |
| Volatile Organics in Air by GC/MS/SIM | GC/MS | 8478363 | N/A | 2023/01/31 | Pratima Patel |
| Volatile Organics in Air (TO-15) | GC/MS | 8478360 | N/A | 2023/01/31 | Pratima Patel |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

Methyl Butyl Ketone was less than 60% recovery in the reference standard. There were no positives found for this compound therefore the data should not be affected.

Increased DL for propene due to interference from propane.

Sample UWL696 [SX2434] : Ethanol was analyzed at a 2X dilution. The DL was adjusted accordingly.

**Results relate only to the items tested.**



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# QUALITY ASSURANCE REPORT



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8478360 | Bromochloromethane | 2023/01/31 | 98 | 60 - 140 | 98 | % | | |
| 8478360 | D5-Chlorobenzene | 2023/01/31 | 100 | 60 - 140 | 91 | % | | |
| 8478360 | Difluorobenzene | 2023/01/31 | 100 | 60 - 140 | 91 | % | | |
| 8478363 | Bromochloromethane | 2023/01/31 | 98 | 60 - 140 | 98 | % | | |
| 8478363 | D5-Chlorobenzene | 2023/01/31 | 100 | 60 - 140 | 91 | % | | |
| 8478363 | Difluorobenzene | 2023/01/31 | 100 | 60 - 140 | 91 | % | | |
| 8478360 | 1,2,4-Trimethylbenzene | 2023/01/31 | 94 | 70 - 130 | <0.50 | ppbv | NC (2) | 25 |
| 8478360 | 1,2-Dichlorotetrafluoroethane | 2023/01/31 | 84 | 70 - 130 | <0.17 | ppbv | NC (2) | 25 |
| 8478360 | 1,3,5-Trimethylbenzene | 2023/01/31 | 98 | 70 - 130 | <0.50 | ppbv | NC (2) | 25 |
| 8478360 | 1,3-Butadiene | 2023/01/31 | 97 | 70 - 130 | <0.50 | ppbv | NC (2) | 25 |
| 8478360 | 1,3-Dichlorobenzene | 2023/01/31 | 85 | 70 - 130 | <0.40 | ppbv | NC (2) | 25 |
| 8478360 | 1,4-Dioxane | 2023/01/31 | 78 | 70 - 130 | <1.0 | ppbv | NC (2) | 25 |
| 8478360 | 2,2,4-Trimethylpentane | 2023/01/31 | 90 | 70 - 130 | <0.20 | ppbv | NC (2) | 25 |
| 8478360 | 2-propanol | 2023/01/31 | 73 | 70 - 130 | <1.0 | ppbv | NC (2) | 25 |
| 8478360 | 4-ethyltoluene | 2023/01/31 | 86 | 70 - 130 | <0.50 | ppbv | NC (2) | 25 |
| 8478360 | Benzyl chloride | 2023/01/31 | 96 | 70 - 130 | <0.50 | ppbv | NC (2) | 25 |
| 8478360 | Bromodichloromethane | 2023/01/31 | 73 | 70 - 130 | <0.20 | ppbv | NC (2) | 25 |
| 8478360 | Carbon Disulfide | 2023/01/31 | 89 | 70 - 130 | <0.50 | ppbv | NC (2) | 25 |
| 8478360 | Chloroethane | 2023/01/31 | 97 | 70 - 130 | <0.30 | ppbv | NC (2) | 25 |
| 8478360 | Chloromethane | 2023/01/31 | 84 | 70 - 130 | <0.30 | ppbv | 4.4 (2) | 25 |
| 8478360 | Cyclohexane | 2023/01/31 | 89 | 70 - 130 | <0.20 | ppbv | NC (2) | 25 |
| 8478360 | Dibromochloromethane | 2023/01/31 | 81 | 70 - 130 | <0.20 | ppbv | NC (2) | 25 |
| 8478360 | Dichlorodifluoromethane (FREON 12) | 2023/01/31 | 84 | 70 - 130 | <0.20 | ppbv | 3.5 (2) | 25 |
| 8478360 | Ethanol (ethyl alcohol) | 2023/01/31 | 78 | 70 - 130 | <1.0 | ppbv | 4.9 (2) | 25 |
| 8478360 | Ethyl Acetate | 2023/01/31 | 85 | 70 - 130 | <1.0 | ppbv | NC (2) | 25 |
| 8478360 | Heptane | 2023/01/31 | 83 | 70 - 130 | <0.30 | ppbv | NC (2) | 25 |
| 8478360 | Methyl Butyl Ketone (2-Hexanone) | 2023/01/31 | 57 (1) | 70 - 130 | <1.0 | ppbv | NC (2) | 25 |
| 8478360 | Propene | 2023/01/31 | 83 | 70 - 130 | <0.50 | ppbv | NC (2) | 25 |
| 8478360 | Tetrahydrofuran | 2023/01/31 | 82 | 70 - 130 | <0.40 | ppbv | NC (2) | 25 |
| 8478360 | Trichlorofluoromethane (FREON 11) | 2023/01/31 | 77 | 70 - 130 | <0.20 | ppbv | 4.1 (2) | 25 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8478360 | Trichlorotrifluoroethane | 2023/01/31 | 91 | 70 - 130 | <0.15 | ppbv | NC (2) | 25 |
| 8478360 | Vinyl Acetate | 2023/01/31 | 92 | 70 - 130 | <0.20 | ppbv | NC (2) | 25 |
| 8478360 | Vinyl Bromide | 2023/01/31 | 89 | 70 - 130 | <0.20 | ppbv | NC (2) | 25 |
| 8478363 | 1,1,1,2-Tetrachloroethane | 2023/01/31 | 87 | 70 - 130 | <0.021 | ppbv | NC (2) | 25 |
| 8478363 | 1,1,1-Trichloroethane | 2023/01/31 | 79 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8478363 | 1,1,2,2-Tetrachloroethane | 2023/01/31 | 76 | 70 - 130 | <0.0027 | ppbv | NC (2) | 25 |
| 8478363 | 1,1,2-Trichloroethane | 2023/01/31 | 86 | 70 - 130 | <0.012 | ppbv | NC (2) | 25 |
| 8478363 | 1,1-Dichloroethane | 2023/01/31 | 85 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8478363 | 1,1-Dichloroethylene | 2023/01/31 | 79 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8478363 | 1,2,4-Trichlorobenzene | 2023/01/31 | 85 | 70 - 130 | <0.10 | ppbv | NC (2) | 25 |
| 8478363 | 1,2-Dichlorobenzene | 2023/01/31 | 79 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8478363 | 1,2-Dichloroethane | 2023/01/31 | 80 | 70 - 130 | <0.010 | ppbv | 5.3 (2) | 25 |
| 8478363 | 1,2-Dichloropropane | 2023/01/31 | 84 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8478363 | 1,4-Dichlorobenzene | 2023/01/31 | 82 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8478363 | 2-Propanone | 2023/01/31 | 75 | 70 - 130 | <0.12 | ppbv | NC (2) | N/A |
| 8478363 | Benzene | 2023/01/31 | 90 | 70 - 130 | <0.050 | ppbv | 2.3 (2) | 25 |
| 8478363 | Bromoform | 2023/01/31 | 85 | 70 - 130 | <0.10 | ppbv | NC (2) | 25 |
| 8478363 | Bromomethane | 2023/01/31 | 92 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8478363 | Carbon Tetrachloride | 2023/01/31 | 79 | 70 - 130 | <0.050 | ppbv | 2.7 (2) | 25 |
| 8478363 | Chlorobenzene | 2023/01/31 | 95 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8478363 | Chloroform | 2023/01/31 | 89 | 70 - 130 | <0.040 | ppbv | NC (2) | 25 |
| 8478363 | cis-1,2-Dichloroethylene | 2023/01/31 | 87 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8478363 | cis-1,3-Dichloropropene | 2023/01/31 | 89 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8478363 | Ethylbenzene | 2023/01/31 | 95 | 70 - 130 | <0.050 | ppbv | 2.6 (2) | 25 |
| 8478363 | Ethylene Dibromide | 2023/01/31 | 89 | 70 - 130 | <0.010 | ppbv | NC (2) | 25 |
| 8478363 | Hexachlorobutadiene | 2023/01/31 | 115 | 70 - 130 | <0.0047 | ppbv | NC (2) | 25 |
| 8478363 | Hexane | 2023/01/31 | 92 | 70 - 130 | <0.10 | ppbv | 1.6 (2) | 25 |
| 8478363 | Methyl Ethyl Ketone (2-Butanone) | 2023/01/31 | 82 | 70 - 130 | <0.10 | ppbv | 1.5 (2) | 25 |
| 8478363 | Methyl Isobutyl Ketone | 2023/01/31 | 70 | 70 - 130 | <0.10 | ppbv | NC (2) | 25 |
| 8478363 | Methyl t-butyl ether (MTBE) | 2023/01/31 | 91 | 70 - 130 | <0.10 | ppbv | NC (2) | 25 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8478363 | Methylene Chloride(Dichloromethane) | 2023/01/31 | 81 | 70 - 130 | <0.050 | ppbv | 6.0 (2) | 25 |
| 8478363 | Naphthalene | 2023/01/31 | 87 | 70 - 130 | <0.10 | ppbv | NC (2) | 25 |
| 8478363 | o-Xylene | 2023/01/31 | 88 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8478363 | p+m-Xylene | 2023/01/31 | 93 | 70 - 130 | <0.10 | ppbv | 0.90 (2) | 25 |
| 8478363 | Styrene | 2023/01/31 | 92 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8478363 | Tetrachloroethylene | 2023/01/31 | 101 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8478363 | Toluene | 2023/01/31 | 92 | 70 - 130 | <0.050 | ppbv | 4.0 (2) | 25 |
| 8478363 | Total Xylenes | 2023/01/31 | 92 | 70 - 130 | <0.15 | ppbv | NC (2) | 25 |
| 8478363 | trans-1,2-Dichloroethylene | 2023/01/31 | 87 | 70 - 130 | <0.10 | ppbv | NC (2) | 25 |
| 8478363 | trans-1,3-Dichloropropene | 2023/01/31 | 98 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8478363 | Trichloroethylene | 2023/01/31 | 100 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8478363 | Vinyl Chloride | 2023/01/31 | 92 | 70 - 130 | <0.020 | ppbv | NC (2) | 25 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

(2) Duplicate Parent ID [UWL695-01]



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C321371
Report Date: 2023/02/03

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Melanie Mabini, Team Leader

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

CAM FCD-01302 /3

BUREAU VERITAS

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Mississauga Ontario ,L5N 2L8
www.bvlabs.com

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Phone: (905) 817-5700
Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Initial Pressure (mm HG) | Final Pressure (mm Hg) | Sample Date | Sample Collection Time | Du | Du | Sil ic a | p. M 10 | us tfa | $NO_2$ | $SO_2$ | VOC's Suma | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Suma SX1984 | -29 | 0 | Dec 16 - 17 | 24 Hours | | | | | | | | X | | | | | |

24-Jan-23 08:48
Gina Baybayan
C321371
BSU AIR-001

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com***

Client Signature:
Affiliation:
Date/Time:

Received by: Cristina Bacchus
Affiliation:
Date/Time: 2023/01/24 08:48

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: na

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/02/22**
Report #: R7518580
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C338253**
**Received: 2023/02/09, 09:00**

Sample Matrix: Air
# Samples Received: 1

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | 1 | N/A | 2023/02/13 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air by GC/MS/SIM (1) | 1 | N/A | 2023/02/13 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air (TO-15) (2) | 1 | N/A | 2023/02/13 | BRL SOP-00304 | EPA TO-15 m |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

(2) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: na

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/02/22**
Report #: R7518580
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C338253**
**Received: 2023/02/09, 09:00**

analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key

Marinela Sim
Project Manager
24 Feb 2023 12:10:05

Please direct all questions regarding this Certificate of Analysis to:
Marinela Sim, Project Manager
Email: Marinela.Sim@bureauveritas.com
Phone# (905)817-5828

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| Bureau Veritas ID | | VAB383 | | |
|---|---|---|---|---|
| Sampling Date | | 2023/01/26 | | |
| COC Number | | na | | |
| | UNITS | SUMA SX0398 | RDL | QC Batch |
| **Volatile Organics** | | | | |
| Pressure on Receipt | psig | 0 | N/A | 8501100 |
| 2-Propanone | ppbv | 1.01 | 0.13 | 8501098 |
| Dichlorodifluoromethane (FREON 12) | ppbv | 0.52 | 0.20 | 8501096 |
| 1,2-Dichlorotetrafluoroethane | ppbv | <0.17 | 0.17 | 8501096 |
| Chloromethane | ppbv | 0.47 | 0.30 | 8501096 |
| Vinyl Chloride | ppbv | <0.020 | 0.020 | 8501098 |
| Chloroethane | ppbv | <0.30 | 0.30 | 8501096 |
| 1,3-Butadiene | ppbv | <0.50 | 0.50 | 8501096 |
| Trichlorofluoromethane (FREON 11) | ppbv | 0.28 | 0.20 | 8501096 |
| Ethanol (ethyl alcohol) | ppbv | <1.0 | 1.0 | 8501096 |
| Trichlorotrifluoroethane | ppbv | <0.15 | 0.15 | 8501096 |
| 2-propanol | ppbv | <1.0 | 1.0 | 8501096 |
| Methyl Ethyl Ketone (2-Butanone) | ppbv | <0.10 | 0.10 | 8501098 |
| Methyl Isobutyl Ketone | ppbv | <0.10 | 0.10 | 8501098 |
| Methyl Butyl Ketone (2-Hexanone) | ppbv | <1.0 | 1.0 | 8501096 |
| Methyl t-butyl ether (MTBE) | ppbv | <0.10 | 0.10 | 8501098 |
| Ethyl Acetate | ppbv | <1.0 | 1.0 | 8501096 |
| 1,1-Dichloroethylene | ppbv | <0.050 | 0.050 | 8501098 |
| cis-1,2-Dichloroethylene | ppbv | <0.050 | 0.050 | 8501098 |
| trans-1,2-Dichloroethylene | ppbv | <0.10 | 0.10 | 8501098 |
| Methylene Chloride(Dichloromethane) | ppbv | 0.143 | 0.050 | 8501098 |
| Chloroform | ppbv | <0.040 | 0.040 | 8501098 |
| Carbon Tetrachloride | ppbv | 0.110 | 0.050 | 8501098 |
| 1,1-Dichloroethane | ppbv | <0.050 | 0.050 | 8501098 |
| 1,2-Dichloroethane | ppbv | 0.021 | 0.010 | 8501098 |
| Ethylene Dibromide | ppbv | <0.010 | 0.010 | 8501098 |
| 1,1,1-Trichloroethane | ppbv | <0.050 | 0.050 | 8501098 |
| 1,1,2-Trichloroethane | ppbv | <0.012 | 0.012 | 8501098 |
| 1,1,2,2-Tetrachloroethane | ppbv | <0.0027 | 0.0027 | 8501098 |
| cis-1,3-Dichloropropene | ppbv | <0.050 | 0.050 | 8501098 |
| trans-1,3-Dichloropropene | ppbv | <0.050 | 0.050 | 8501098 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| Bureau Veritas ID | | VAB383 | | |
|---|---|---|---|---|
| Sampling Date | | 2023/01/26 | | |
| COC Number | | na | | |
| | UNITS | SUMA SX0398 | RDL | QC Batch |
| 1,2-Dichloropropane | ppbv | <0.050 | 0.050 | 8501098 |
| Bromomethane | ppbv | <0.050 | 0.050 | 8501098 |
| Bromoform | ppbv | <0.10 | 0.10 | 8501098 |
| Bromodichloromethane | ppbv | <0.20 | 0.20 | 8501096 |
| Dibromochloromethane | ppbv | <0.20 | 0.20 | 8501096 |
| Trichloroethylene | ppbv | <0.050 | 0.050 | 8501098 |
| Tetrachloroethylene | ppbv | <0.050 | 0.050 | 8501098 |
| Benzene | ppbv | 0.175 | 0.050 | 8501098 |
| Toluene | ppbv | 0.109 | 0.050 | 8501098 |
| Ethylbenzene | ppbv | <0.050 | 0.050 | 8501098 |
| p+m-Xylene | ppbv | <0.10 | 0.10 | 8501098 |
| o-Xylene | ppbv | <0.050 | 0.050 | 8501098 |
| Styrene | ppbv | <0.050 | 0.050 | 8501098 |
| 4-ethyltoluene | ppbv | <0.50 | 0.50 | 8501096 |
| 1,3,5-Trimethylbenzene | ppbv | <0.50 | 0.50 | 8501096 |
| 1,2,4-Trimethylbenzene | ppbv | <0.50 | 0.50 | 8501096 |
| Chlorobenzene | ppbv | <0.050 | 0.050 | 8501098 |
| Benzyl chloride | ppbv | <0.50 | 0.50 | 8501096 |
| 1,3-Dichlorobenzene | ppbv | <0.40 | 0.40 | 8501096 |
| 1,4-Dichlorobenzene | ppbv | <0.050 | 0.050 | 8501098 |
| 1,2-Dichlorobenzene | ppbv | <0.050 | 0.050 | 8501098 |
| 1,2,4-Trichlorobenzene | ppbv | <0.10 | 0.10 | 8501098 |
| Hexachlorobutadiene | ppbv | <0.0047 | 0.0047 | 8501098 |
| Hexane | ppbv | 0.12 | 0.10 | 8501098 |
| Heptane | ppbv | <0.30 | 0.30 | 8501096 |
| Cyclohexane | ppbv | <0.20 | 0.20 | 8501096 |
| Tetrahydrofuran | ppbv | <0.40 | 0.40 | 8501096 |
| 1,4-Dioxane | ppbv | <1.0 | 1.0 | 8501096 |
| Naphthalene | ppbv | <0.10 | 0.10 | 8501098 |
| Total Xylenes | ppbv | <0.15 | 0.15 | 8501098 |
| 1,1,1,2-Tetrachloroethane | ppbv | <0.021 | 0.021 | 8501098 |
| Vinyl Bromide | ppbv | <0.20 | 0.20 | 8501096 |
| Propene | ppbv | <0.80 | 0.80 | 8501096 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| **Bureau Veritas ID** | | VAB383 | | |
|---|---|---|---|---|
| **Sampling Date** | | 2023/01/26 | | |
| **COC Number** | | na | | |
| | **UNITS** | **SUMA SX0398** | **RDL** | **QC Batch** |
| 2,2,4-Trimethylpentane | ppbv | <0.20 | 0.20 | 8501096 |
| Carbon Disulfide | ppbv | <0.50 | 0.50 | 8501096 |
| Vinyl Acetate | ppbv | <0.20 | 0.20 | 8501096 |
| **Surrogate Recovery (%)** | | | | |
| Bromochloromethane | % | 96 | N/A | 8501098 |
| D5-Chlorobenzene | % | 86 | N/A | 8501098 |
| Difluorobenzene | % | 86 | N/A | 8501098 |
| Bromochloromethane | % | 96 | N/A | 8501096 |
| D5-Chlorobenzene | % | 86 | N/A | 8501096 |
| Difluorobenzene | % | 86 | N/A | 8501096 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C338253
Report Date: 2023/02/22

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** VAB383
**Sample ID:** SUMA SX0398
**Matrix:** Air

**Collected:** 2023/01/26
**Shipped:**
**Received:** 2023/02/09

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | PRES | 8501100 | N/A | 2023/02/13 | Pratima Patel |
| Volatile Organics in Air by GC/MS/SIM | GC/MS | 8501098 | N/A | 2023/02/13 | Pratima Patel |
| Volatile Organics in Air (TO-15) | GC/MS | 8501096 | N/A | 2023/02/13 | Pratima Patel |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

Sample VAB383 [SUMA SX0398] : Increased DL for propene due to interference from propane.

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

# QUALITY ASSURANCE REPORT



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8501096 | Bromochloromethane | 2023/02/13 | 107 | 60 - 140 | 107 | % | | |
| 8501096 | D5-Chlorobenzene | 2023/02/13 | 110 | 60 - 140 | 95 | % | | |
| 8501096 | Difluorobenzene | 2023/02/13 | 111 | 60 - 140 | 96 | % | | |
| 8501098 | Bromochloromethane | 2023/02/13 | 107 | 60 - 140 | 107 | % | | |
| 8501098 | D5-Chlorobenzene | 2023/02/13 | 110 | 60 - 140 | 95 | % | | |
| 8501098 | Difluorobenzene | 2023/02/13 | 111 | 60 - 140 | 96 | % | | |
| 8501096 | 1,2,4-Trimethylbenzene | 2023/02/13 | 90 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8501096 | 1,2-Dichlorotetrafluoroethane | 2023/02/13 | 89 | 70 - 130 | <0.17 | ppbv | NC (1) | 25 |
| 8501096 | 1,3,5-Trimethylbenzene | 2023/02/13 | 91 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8501096 | 1,3-Butadiene | 2023/02/13 | 101 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8501096 | 1,3-Dichlorobenzene | 2023/02/13 | 84 | 70 - 130 | <0.40 | ppbv | NC (1) | 25 |
| 8501096 | 1,4-Dioxane | 2023/02/13 | 96 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 8501096 | 2,2,4-Trimethylpentane | 2023/02/13 | 99 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8501096 | 2-propanol | 2023/02/13 | 93 | 70 - 130 | <1.0 | ppbv | 0.94 (1) | 25 |
| 8501096 | 4-ethyltoluene | 2023/02/13 | 90 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8501096 | Benzyl chloride | 2023/02/13 | 107 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8501096 | Bromodichloromethane | 2023/02/13 | 84 | 70 - 130 | <0.20 | ppbv | 0.41 (1) | 25 |
| 8501096 | Carbon Disulfide | 2023/02/13 | 91 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8501096 | Chloroethane | 2023/02/13 | 101 | 70 - 130 | <0.30 | ppbv | NC (1) | 25 |
| 8501096 | Chloromethane | 2023/02/13 | 97 | 70 - 130 | <0.30 | ppbv | 2.9 (1) | 25 |
| 8501096 | Cyclohexane | 2023/02/13 | 97 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8501096 | Dibromochloromethane | 2023/02/13 | 90 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8501096 | Dichlorodifluoromethane (FREON 12) | 2023/02/13 | 92 | 70 - 130 | <0.20 | ppbv | 0.38 (1) | 25 |
| 8501096 | Ethanol (ethyl alcohol) | 2023/02/13 | 96 | 70 - 130 | <1.0 | ppbv | 2.5 (1) | 25 |
| 8501096 | Ethyl Acetate | 2023/02/13 | 97 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 8501096 | Heptane | 2023/02/13 | 96 | 70 - 130 | <0.30 | ppbv | NC (1) | 25 |
| 8501096 | Methyl Butyl Ketone (2-Hexanone) | 2023/02/13 | 93 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 8501096 | Propene | 2023/02/13 | 96 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8501096 | Tetrahydrofuran | 2023/02/13 | 98 | 70 - 130 | <0.40 | ppbv | 2.8 (1) | 25 |
| 8501096 | Trichlorofluoromethane (FREON 11) | 2023/02/13 | 86 | 70 - 130 | <0.20 | ppbv | 0.40 (1) | 25 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8501096 | Trichlorotrifluoroethane | 2023/02/13 | 88 | 70 - 130 | <0.15 | ppbv | NC (1) | 25 |
| 8501096 | Vinyl Acetate | 2023/02/13 | 97 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8501096 | Vinyl Bromide | 2023/02/13 | 87 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8501098 | 1,1,1,2-Tetrachloroethane | 2023/02/13 | 93 | 70 - 130 | <0.021 | ppbv | NC (1) | 25 |
| 8501098 | 1,1,1-Trichloroethane | 2023/02/13 | 86 | 70 - 130 | <0.050 | ppbv | 0.76 (1) | 25 |
| 8501098 | 1,1,2,2-Tetrachloroethane | 2023/02/13 | 83 | 70 - 130 | <0.0027 | ppbv | NC (1) | 25 |
| 8501098 | 1,1,2-Trichloroethane | 2023/02/13 | 91 | 70 - 130 | <0.012 | ppbv | NC (1) | 25 |
| 8501098 | 1,1-Dichloroethane | 2023/02/13 | 87 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8501098 | 1,1-Dichloroethylene | 2023/02/13 | 85 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8501098 | 1,2,4-Trichlorobenzene | 2023/02/13 | 71 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8501098 | 1,2-Dichlorobenzene | 2023/02/13 | 80 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8501098 | 1,2-Dichloroethane | 2023/02/13 | 88 | 70 - 130 | <0.010 | ppbv | 3.4 (1) | 25 |
| 8501098 | 1,2-Dichloropropane | 2023/02/13 | 92 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8501098 | 1,4-Dichlorobenzene | 2023/02/13 | 84 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8501098 | 2-Propanone | 2023/02/13 | 96 | 70 - 130 | <0.13 | ppbv | NC (1) | N/A |
| 8501098 | Benzene | 2023/02/13 | 93 | 70 - 130 | <0.050 | ppbv | 1.7 (1) | 25 |
| 8501098 | Bromoform | 2023/02/13 | 90 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8501098 | Bromomethane | 2023/02/13 | 90 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8501098 | Carbon Tetrachloride | 2023/02/13 | 89 | 70 - 130 | <0.050 | ppbv | 1.7 (1) | 25 |
| 8501098 | Chlorobenzene | 2023/02/13 | 90 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8501098 | Chloroform | 2023/02/13 | 90 | 70 - 130 | <0.040 | ppbv | 2.6 (1) | 25 |
| 8501098 | cis-1,2-Dichloroethylene | 2023/02/13 | 89 | 70 - 130 | <0.050 | ppbv | 3.2 (1) | 25 |
| 8501098 | cis-1,3-Dichloropropene | 2023/02/13 | 93 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8501098 | Ethylbenzene | 2023/02/13 | 95 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8501098 | Ethylene Dibromide | 2023/02/13 | 91 | 70 - 130 | <0.010 | ppbv | NC (1) | 25 |
| 8501098 | Hexachlorobutadiene | 2023/02/13 | 62 (2) | 70 - 130 | <0.0047 | ppbv | NC (1) | 25 |
| 8501098 | Hexane | 2023/02/13 | 90 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8501098 | Methyl Ethyl Ketone (2-Butanone) | 2023/02/13 | 93 | 70 - 130 | <0.10 | ppbv | 2.3 (1) | 25 |
| 8501098 | Methyl Isobutyl Ketone | 2023/02/13 | 92 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8501098 | Methyl t-butyl ether (MTBE) | 2023/02/13 | 85 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8501098 | Methylene Chloride(Dichloromethane) | 2023/02/13 | 105 | 70 - 130 | <0.050 | ppbv | 1.7 (1) | 25 |
| 8501098 | Naphthalene | 2023/02/13 | 77 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8501098 | o-Xylene | 2023/02/13 | 90 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8501098 | p+m-Xylene | 2023/02/13 | 94 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8501098 | Styrene | 2023/02/13 | 92 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8501098 | Tetrachloroethylene | 2023/02/13 | 92 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8501098 | Toluene | 2023/02/13 | 94 | 70 - 130 | <0.050 | ppbv | 0.60 (1) | 25 |
| 8501098 | Total Xylenes | 2023/02/13 | 93 | 70 - 130 | <0.15 | ppbv | NC (1) | 25 |
| 8501098 | trans-1,2-Dichloroethylene | 2023/02/13 | 89 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8501098 | trans-1,3-Dichloropropene | 2023/02/13 | 101 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8501098 | Trichloroethylene | 2023/02/13 | 93 | 70 - 130 | <0.050 | ppbv | 1.7 (1) | 25 |
| 8501098 | Vinyl Chloride | 2023/02/13 | 98 | 70 - 130 | <0.020 | ppbv | NC (1) | 25 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Duplicate Parent ID

(2) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C338253
Report Date: 2023/02/22

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Melanie Mabini, Team Leader

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

CAM FCD-01302 /3

BUREAU VERITAS

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Mississauga Ontario ,L5N 2L8
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Phone: (905) 817-5700
Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:

**SECTION**

Sampled by: JM

**ANALYSIS REQUESTED**

| Field Sample ID | Initial Pressure (mm HG) | Final Pressure (mm Hg) | Sample Date | Sample Collection Time | Dust Fall Opening (Inner Diameter) | Dust Fall Opening (Outer Diameter) | Silica | PM 10 | Dustfall | $NO_2$ | $SO_2$ | VOC Summa Canister | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Suma SX0398 | -29 | -2 | Jan 26 - 27 | 24H7M | | | | | | | | X | | | | | |
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09-Feb-23 09:0
Gina Baybayan
C338253
BSU AIR-001

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com***

Client Signature:
Affiliation:
Date/Time:

Received by: Paige Barnisha Sumaan
Affiliation:
Date/Time: 2023/02/09 09:00

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at*

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: NA

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/10/26**
Report #: R7879993
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3V7662**
**Received: 2023/10/13, 08:30**

Sample Matrix: Air
# Samples Received: 1

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | 1 | N/A | 2023/10/20 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air by GC/MS/SIM (1) | 1 | N/A | 2023/10/20 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air (TO-15) (2) | 1 | N/A | 2023/10/20 | BRL SOP-00304 | EPA TO-15 m |

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

(2) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key

Jade Browne
Project Manager Assistant - Air
26 Oct 2023 14:30:16

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C3V7662
Report Date: 2023/10/26

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JMF

## RESULTS OF ANALYSES OF AIR

| **Bureau Veritas ID** | | XGU177 | |
|---|---|---|---|
| **Sampling Date** | | 2023/10/07 | |
| **COC Number** | | NA | |
| | **UNITS** | **OCTOBER 6TH SUMA** | **QC Batch** |
| **Volatile Organics** | | | |
| Pressure on Receipt | psig | (-2.7) | 8994897 |
| QC Batch = Quality Control Batch | | | |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## VOLATILE ORGANICS BY GC/MS (AIR)

| Bureau Veritas ID | | XGU177 | | | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2023/10/07 | | | | |
| COC Number | | NA | | | | |
| | UNITS | OCTOBER 6TH SUMA | RDL | ug/m3 | DL (ug/m3) | QC Batch |
| **Volatile Organics** | | | | | | |
| 2-Propanone | ppbv | 1.27 | 0.18 | 3.01 | 0.428 | 8994896 |
| Dichlorodifluoromethane (FREON 12) | ppbv | 0.47 | 0.20 | 2.34 | 0.989 | 8994890 |
| 1,2-Dichlorotetrafluoroethane | ppbv | <0.17 | 0.17 | <1.19 | 1.19 | 8994890 |
| Chloromethane | ppbv | 0.43 | 0.30 | 0.880 | 0.620 | 8994890 |
| Vinyl Chloride | ppbv | <0.020 | 0.020 | <0.0511 | 0.0511 | 8994896 |
| Chloroethane | ppbv | <0.30 | 0.30 | <0.792 | 0.792 | 8994890 |
| 1,3-Butadiene | ppbv | <0.50 | 0.50 | <1.11 | 1.11 | 8994890 |
| Trichlorofluoromethane (FREON 11) | ppbv | 0.29 | 0.20 | 1.65 | 1.12 | 8994890 |
| Ethanol (ethyl alcohol) | ppbv | 1.1 | 1.0 | 2.16 | 1.88 | 8994890 |
| Trichlorotrifluoroethane | ppbv | <0.15 | 0.15 | <1.15 | 1.15 | 8994890 |
| 2-propanol | ppbv | <1.0 | 1.0 | <2.46 | 2.46 | 8994890 |
| Methyl Ethyl Ketone (2-Butanone) | ppbv | 0.10 | 0.10 | 0.303 | 0.295 | 8994896 |
| Methyl Isobutyl Ketone | ppbv | <0.10 | 0.10 | <0.410 | 0.410 | 8994896 |
| Methyl Butyl Ketone (2-Hexanone) | ppbv | <1.0 | 1.0 | <4.10 | 4.10 | 8994890 |
| Methyl t-butyl ether (MTBE) | ppbv | <0.10 | 0.10 | <0.361 | 0.361 | 8994896 |
| Ethyl Acetate | ppbv | <1.0 | 1.0 | <3.60 | 3.60 | 8994890 |
| 1,1-Dichloroethylene | ppbv | <0.050 | 0.050 | <0.198 | 0.198 | 8994896 |
| cis-1,2-Dichloroethylene | ppbv | <0.050 | 0.050 | <0.198 | 0.198 | 8994896 |
| trans-1,2-Dichloroethylene | ppbv | <0.10 | 0.10 | <0.396 | 0.396 | 8994896 |
| Methylene Chloride(Dichloromethane) | ppbv | 0.117 | 0.050 | 0.407 | 0.174 | 8994896 |
| Chloroform | ppbv | <0.040 | 0.040 | <0.195 | 0.195 | 8994896 |
| Carbon Tetrachloride | ppbv | 0.127 | 0.050 | 0.801 | 0.315 | 8994896 |
| 1,1-Dichloroethane | ppbv | <0.050 | 0.050 | <0.202 | 0.202 | 8994896 |
| 1,2-Dichloroethane | ppbv | 0.016 | 0.010 | 0.0643 | 0.0405 | 8994896 |
| Ethylene Dibromide | ppbv | <0.010 | 0.010 | <0.0768 | 0.0768 | 8994896 |
| 1,1,1-Trichloroethane | ppbv | <0.050 | 0.050 | <0.273 | 0.273 | 8994896 |
| 1,1,2-Trichloroethane | ppbv | <0.012 | 0.012 | <0.0655 | 0.0655 | 8994896 |
| 1,1,2,2-Tetrachloroethane | ppbv | <0.0027 | 0.0027 | <0.0185 | 0.0185 | 8994896 |
| cis-1,3-Dichloropropene | ppbv | <0.050 | 0.050 | <0.227 | 0.227 | 8994896 |
| trans-1,3-Dichloropropene | ppbv | <0.050 | 0.050 | <0.227 | 0.227 | 8994896 |
| 1,2-Dichloropropane | ppbv | <0.050 | 0.050 | <0.231 | 0.231 | 8994896 |
| Bromomethane | ppbv | <0.050 | 0.050 | <0.194 | 0.194 | 8994896 |
| Bromoform | ppbv | <0.10 | 0.10 | <1.03 | 1.03 | 8994896 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## VOLATILE ORGANICS BY GC/MS (AIR)

| Bureau Veritas ID | | XGU177 | | | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2023/10/07 | | | | |
| COC Number | | NA | | | | |
| | UNITS | OCTOBER 6TH SUMA | RDL | ug/m3 | DL (ug/m3) | QC Batch |
| Bromodichloromethane | ppbv | <0.20 | 0.20 | <1.34 | 1.34 | 8994890 |
| Dibromochloromethane | ppbv | <0.20 | 0.20 | <1.70 | 1.70 | 8994890 |
| Trichloroethylene | ppbv | <0.050 | 0.050 | <0.269 | 0.269 | 8994896 |
| Tetrachloroethylene | ppbv | <0.050 | 0.050 | <0.339 | 0.339 | 8994896 |
| Benzene | ppbv | 0.197 | 0.050 | 0.629 | 0.160 | 8994896 |
| Toluene | ppbv | 0.063 | 0.050 | 0.237 | 0.188 | 8994896 |
| Ethylbenzene | ppbv | <0.050 | 0.050 | <0.217 | 0.217 | 8994896 |
| p+m-Xylene | ppbv | <0.10 | 0.10 | <0.434 | 0.434 | 8994896 |
| o-Xylene | ppbv | <0.050 | 0.050 | <0.217 | 0.217 | 8994896 |
| Styrene | ppbv | <0.050 | 0.050 | <0.213 | 0.213 | 8994896 |
| 4-ethyltoluene | ppbv | <0.50 | 0.50 | <2.46 | 2.46 | 8994890 |
| 1,3,5-Trimethylbenzene | ppbv | <0.50 | 0.50 | <2.45 | 2.45 | 8994890 |
| 1,2,4-Trimethylbenzene | ppbv | <0.50 | 0.50 | <2.45 | 2.45 | 8994890 |
| Chlorobenzene | ppbv | <0.050 | 0.050 | <0.230 | 0.230 | 8994896 |
| Benzyl chloride | ppbv | <0.50 | 0.50 | <2.59 | 2.59 | 8994890 |
| 1,3-Dichlorobenzene | ppbv | <0.40 | 0.40 | <2.40 | 2.40 | 8994890 |
| 1,4-Dichlorobenzene | ppbv | <0.050 | 0.050 | <0.301 | 0.301 | 8994896 |
| 1,2-Dichlorobenzene | ppbv | <0.050 | 0.050 | <0.301 | 0.301 | 8994896 |
| 1,2,4-Trichlorobenzene | ppbv | <0.10 | 0.10 | <0.742 | 0.742 | 8994896 |
| Hexachlorobutadiene | ppbv | <0.0047 | 0.0047 | <0.0501 | 0.0501 | 8994896 |
| Hexane | ppbv | <0.10 | 0.10 | <0.352 | 0.352 | 8994896 |
| Heptane | ppbv | <0.30 | 0.30 | <1.23 | 1.23 | 8994890 |
| Cyclohexane | ppbv | <0.20 | 0.20 | <0.688 | 0.688 | 8994890 |
| Tetrahydrofuran | ppbv | <0.40 | 0.40 | <1.18 | 1.18 | 8994890 |
| 1,4-Dioxane | ppbv | <1.0 | 1.0 | <3.60 | 3.60 | 8994890 |
| Naphthalene | ppbv | <0.10 | 0.10 | <0.524 | 0.524 | 8994896 |
| Total Xylenes | ppbv | <0.15 | 0.15 | <0.651 | 0.651 | 8994896 |
| 1,1,1,2-Tetrachloroethane | ppbv | <0.021 | 0.021 | <0.144 | 0.144 | 8994896 |
| Vinyl Bromide | ppbv | <0.20 | 0.20 | <0.875 | 0.875 | 8994890 |
| Propene | ppbv | <0.50 | 0.50 | <0.861 | 0.861 | 8994890 |
| 2,2,4-Trimethylpentane | ppbv | <0.20 | 0.20 | <0.934 | 0.934 | 8994890 |
| Carbon Disulfide | ppbv | <0.50 | 0.50 | <1.56 | 1.56 | 8994890 |
| Vinyl Acetate | ppbv | <0.20 | 0.20 | <0.704 | 0.704 | 8994890 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## VOLATILE ORGANICS BY GC/MS (AIR)

| **Bureau Veritas ID** | | XGU177 | | | | |
|---|---|---|---|---|---|---|
| **Sampling Date** | | 2023/10/07 | | | | |
| **COC Number** | | NA | | | | |
| | **UNITS** | **OCTOBER 6TH SUMA** | **RDL** | **ug/m3** | **DL (ug/m3)** | **QC Batch** |
| **Surrogate Recovery (%)** | | | | | | |
| Bromochloromethane | % | 101 | | N/A | N/A | 8994896 |
| D5-Chlorobenzene | % | 86 | | N/A | N/A | 8994896 |
| Difluorobenzene | % | 89 | | N/A | N/A | 8994896 |
| Bromochloromethane | % | 101 | | N/A | N/A | 8994890 |
| D5-Chlorobenzene | % | 86 | | N/A | N/A | 8994890 |
| Difluorobenzene | % | 89 | | N/A | N/A | 8994890 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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## GENERAL COMMENTS

**Results relate only to the items tested.**



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## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 8994890 | ANE | Spiked Blank | Bromochloromethane | 2023/10/20 | | 98 | % | 60 - 140 |
| | | | D5-Chlorobenzene | 2023/10/20 | | 103 | % | 60 - 140 |
| | | | Difluorobenzene | 2023/10/20 | | 105 | % | 60 - 140 |
| | | | Dichlorodifluoromethane (FREON 12) | 2023/10/20 | | 78 | % | 70 - 130 |
| | | | 1,2-Dichlorotetrafluoroethane | 2023/10/20 | | 81 | % | 70 - 130 |
| | | | Chloromethane | 2023/10/20 | | 100 | % | 70 - 130 |
| | | | Chloroethane | 2023/10/20 | | 110 | % | 70 - 130 |
| | | | 1,3-Butadiene | 2023/10/20 | | 104 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2023/10/20 | | 106 | % | 70 - 130 |
| | | | Ethanol (ethyl alcohol) | 2023/10/20 | | 82 | % | 70 - 130 |
| | | | Trichlorotrifluoroethane | 2023/10/20 | | 98 | % | 70 - 130 |
| | | | 2-propanol | 2023/10/20 | | 97 | % | 70 - 130 |
| | | | Methyl Butyl Ketone (2-Hexanone) | 2023/10/20 | | 105 | % | 70 - 130 |
| | | | Ethyl Acetate | 2023/10/20 | | 106 | % | 70 - 130 |
| | | | Bromodichloromethane | 2023/10/20 | | 104 | % | 70 - 130 |
| | | | Dibromochloromethane | 2023/10/20 | | 110 | % | 70 - 130 |
| | | | 4-ethyltoluene | 2023/10/20 | | 110 | % | 70 - 130 |
| | | | 1,3,5-Trimethylbenzene | 2023/10/20 | | 101 | % | 70 - 130 |
| | | | 1,2,4-Trimethylbenzene | 2023/10/20 | | 105 | % | 70 - 130 |
| | | | Benzyl chloride | 2023/10/20 | | 126 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2023/10/20 | | 98 | % | 70 - 130 |
| | | | Heptane | 2023/10/20 | | 113 | % | 70 - 130 |
| | | | Cyclohexane | 2023/10/20 | | 113 | % | 70 - 130 |
| | | | Tetrahydrofuran | 2023/10/20 | | 101 | % | 70 - 130 |
| | | | 1,4-Dioxane | 2023/10/20 | | 108 | % | 70 - 130 |
| | | | Vinyl Bromide | 2023/10/20 | | 98 | % | 70 - 130 |
| | | | Propene | 2023/10/20 | | 107 | % | 70 - 130 |
| | | | 2,2,4-Trimethylpentane | 2023/10/20 | | 115 | % | 70 - 130 |
| | | | Carbon Disulfide | 2023/10/20 | | 98 | % | 70 - 130 |
| | | | Vinyl Acetate | 2023/10/20 | | 104 | % | 70 - 130 |
| 8994890 | ANE | Method Blank | Bromochloromethane | 2023/10/20 | | 106 | % | 60 - 140 |
| | | | D5-Chlorobenzene | 2023/10/20 | | 85 | % | 60 - 140 |
| | | | Difluorobenzene | 2023/10/20 | | 89 | % | 60 - 140 |
| | | | Dichlorodifluoromethane (FREON 12) | 2023/10/20 | <0.20 | | ppbv | |
| | | | 1,2-Dichlorotetrafluoroethane | 2023/10/20 | <0.17 | | ppbv | |
| | | | Chloromethane | 2023/10/20 | <0.30 | | ppbv | |
| | | | Chloroethane | 2023/10/20 | <0.30 | | ppbv | |
| | | | 1,3-Butadiene | 2023/10/20 | <0.50 | | ppbv | |
| | | | Trichlorofluoromethane (FREON 11) | 2023/10/20 | <0.20 | | ppbv | |
| | | | Ethanol (ethyl alcohol) | 2023/10/20 | <1.0 | | ppbv | |
| | | | Trichlorotrifluoroethane | 2023/10/20 | <0.15 | | ppbv | |
| | | | 2-propanol | 2023/10/20 | <1.0 | | ppbv | |
| | | | Methyl Butyl Ketone (2-Hexanone) | 2023/10/20 | <1.0 | | ppbv | |
| | | | Ethyl Acetate | 2023/10/20 | <1.0 | | ppbv | |
| | | | Bromodichloromethane | 2023/10/20 | <0.20 | | ppbv | |
| | | | Dibromochloromethane | 2023/10/20 | <0.20 | | ppbv | |
| | | | 4-ethyltoluene | 2023/10/20 | <0.50 | | ppbv | |
| | | | 1,3,5-Trimethylbenzene | 2023/10/20 | <0.50 | | ppbv | |
| | | | 1,2,4-Trimethylbenzene | 2023/10/20 | <0.50 | | ppbv | |
| | | | Benzyl chloride | 2023/10/20 | <0.50 | | ppbv | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | 1,3-Dichlorobenzene | 2023/10/20 | <0.40 | | ppbv | |
| | | | Heptane | 2023/10/20 | <0.30 | | ppbv | |
| | | | Cyclohexane | 2023/10/20 | <0.20 | | ppbv | |
| | | | Tetrahydrofuran | 2023/10/20 | <0.40 | | ppbv | |
| | | | 1,4-Dioxane | 2023/10/20 | <1.0 | | ppbv | |
| | | | Vinyl Bromide | 2023/10/20 | <0.20 | | ppbv | |
| | | | Propene | 2023/10/20 | <0.50 | | ppbv | |
| | | | 2,2,4-Trimethylpentane | 2023/10/20 | <0.20 | | ppbv | |
| | | | Carbon Disulfide | 2023/10/20 | <0.50 | | ppbv | |
| | | | Vinyl Acetate | 2023/10/20 | <0.20 | | ppbv | |
| 8994890 | ANE | RPD | Dichlorodifluoromethane (FREON 12) | 2023/10/20 | 7.2 | | % | 25 |
| | | | 1,2-Dichlorotetrafluoroethane | 2023/10/20 | NC | | % | 25 |
| | | | Chloromethane | 2023/10/20 | 0.85 | | % | 25 |
| | | | Chloroethane | 2023/10/20 | NC | | % | 25 |
| | | | 1,3-Butadiene | 2023/10/20 | NC | | % | 25 |
| | | | Trichlorofluoromethane (FREON 11) | 2023/10/20 | 3.8 | | % | 25 |
| | | | Ethanol (ethyl alcohol) | 2023/10/20 | 0.46 | | % | 25 |
| | | | Trichlorotrifluoroethane | 2023/10/20 | NC | | % | 25 |
| | | | 2-propanol | 2023/10/20 | NC | | % | 25 |
| | | | Methyl Butyl Ketone (2-Hexanone) | 2023/10/20 | NC | | % | 25 |
| | | | Ethyl Acetate | 2023/10/20 | NC | | % | 25 |
| | | | Bromodichloromethane | 2023/10/20 | NC | | % | 25 |
| | | | Dibromochloromethane | 2023/10/20 | NC | | % | 25 |
| | | | 4-ethyltoluene | 2023/10/20 | NC | | % | 25 |
| | | | 1,3,5-Trimethylbenzene | 2023/10/20 | NC | | % | 25 |
| | | | 1,2,4-Trimethylbenzene | 2023/10/20 | NC | | % | 25 |
| | | | Benzyl chloride | 2023/10/20 | NC | | % | 25 |
| | | | 1,3-Dichlorobenzene | 2023/10/20 | NC | | % | 25 |
| | | | Heptane | 2023/10/20 | NC | | % | 25 |
| | | | Cyclohexane | 2023/10/20 | NC | | % | 25 |
| | | | Tetrahydrofuran | 2023/10/20 | NC | | % | 25 |
| | | | 1,4-Dioxane | 2023/10/20 | NC | | % | 25 |
| | | | Vinyl Bromide | 2023/10/20 | NC | | % | 25 |
| | | | Propene | 2023/10/20 | NC | | % | 25 |
| | | | 2,2,4-Trimethylpentane | 2023/10/20 | NC | | % | 25 |
| | | | Carbon Disulfide | 2023/10/20 | NC | | % | 25 |
| | | | Vinyl Acetate | 2023/10/20 | NC | | % | 25 |
| 8994896 | ANE | Spiked Blank | 2-Propanone | 2023/10/20 | | 100 | % | 70 - 130 |
| | | | Bromochloromethane | 2023/10/20 | | 98 | % | 60 - 140 |
| | | | D5-Chlorobenzene | 2023/10/20 | | 103 | % | 60 - 140 |
| | | | Difluorobenzene | 2023/10/20 | | 105 | % | 60 - 140 |
| | | | Vinyl Chloride | 2023/10/20 | | 107 | % | 70 - 130 |
| | | | Methyl Ethyl Ketone (2-Butanone) | 2023/10/20 | | 98 | % | 70 - 130 |
| | | | Methyl Isobutyl Ketone | 2023/10/20 | | 105 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2023/10/20 | | 92 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2023/10/20 | | 90 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2023/10/20 | | 98 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2023/10/20 | | 100 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2023/10/20 | | 94 | % | 70 - 130 |
| | | | Chloroform | 2023/10/20 | | 105 | % | 70 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Carbon Tetrachloride | 2023/10/20 | | 115 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2023/10/20 | | 98 | % | 70 - 130 |
| | | | 1,2-Dichloroethane | 2023/10/20 | | 104 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2023/10/20 | | 107 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2023/10/20 | | 110 | % | 70 - 130 |
| | | | 1,1,2-Trichloroethane | 2023/10/20 | | 107 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2023/10/20 | | 95 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2023/10/20 | | 106 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2023/10/20 | | 112 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2023/10/20 | | 105 | % | 70 - 130 |
| | | | Bromomethane | 2023/10/20 | | 100 | % | 70 - 130 |
| | | | Bromoform | 2023/10/20 | | 105 | % | 70 - 130 |
| | | | Trichloroethylene | 2023/10/20 | | 113 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2023/10/20 | | 110 | % | 70 - 130 |
| | | | Benzene | 2023/10/20 | | 110 | % | 70 - 130 |
| | | | Toluene | 2023/10/20 | | 112 | % | 70 - 130 |
| | | | Ethylbenzene | 2023/10/20 | | 111 | % | 70 - 130 |
| | | | p+m-Xylene | 2023/10/20 | | 112 | % | 70 - 130 |
| | | | o-Xylene | 2023/10/20 | | 104 | % | 70 - 130 |
| | | | Styrene | 2023/10/20 | | 99 | % | 70 - 130 |
| | | | Chlorobenzene | 2023/10/20 | | 104 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2023/10/20 | | 99 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2023/10/20 | | 98 | % | 70 - 130 |
| | | | 1,2,4-Trichlorobenzene | 2023/10/20 | | 99 | % | 70 - 130 |
| | | | Hexachlorobutadiene | 2023/10/20 | | 100 | % | 70 - 130 |
| | | | Hexane | 2023/10/20 | | 99 | % | 70 - 130 |
| | | | Naphthalene | 2023/10/20 | | 102 | % | 70 - 130 |
| | | | Total Xylenes | 2023/10/20 | | 109 | % | 70 - 130 |
| | | | 1,1,1,2-Tetrachloroethane | 2023/10/20 | | 113 | % | 70 - 130 |
| 8994896 | ANE | Method Blank | 2-Propanone | 2023/10/20 | <0.18 | | ppbv | |
| | | | Bromochloromethane | 2023/10/20 | | 106 | % | 60 - 140 |
| | | | D5-Chlorobenzene | 2023/10/20 | | 85 | % | 60 - 140 |
| | | | Difluorobenzene | 2023/10/20 | | 89 | % | 60 - 140 |
| | | | Vinyl Chloride | 2023/10/20 | <0.020 | | ppbv | |
| | | | Methyl Ethyl Ketone (2-Butanone) | 2023/10/20 | <0.10 | | ppbv | |
| | | | Methyl Isobutyl Ketone | 2023/10/20 | <0.10 | | ppbv | |
| | | | Methyl t-butyl ether (MTBE) | 2023/10/20 | <0.10 | | ppbv | |
| | | | 1,1-Dichloroethylene | 2023/10/20 | <0.050 | | ppbv | |
| | | | cis-1,2-Dichloroethylene | 2023/10/20 | <0.050 | | ppbv | |
| | | | trans-1,2-Dichloroethylene | 2023/10/20 | <0.10 | | ppbv | |
| | | | Methylene Chloride(Dichloromethane) | 2023/10/20 | <0.050 | | ppbv | |
| | | | Chloroform | 2023/10/20 | <0.040 | | ppbv | |
| | | | Carbon Tetrachloride | 2023/10/20 | <0.050 | | ppbv | |
| | | | 1,1-Dichloroethane | 2023/10/20 | <0.050 | | ppbv | |
| | | | 1,2-Dichloroethane | 2023/10/20 | <0.010 | | ppbv | |
| | | | Ethylene Dibromide | 2023/10/20 | <0.010 | | ppbv | |
| | | | 1,1,1-Trichloroethane | 2023/10/20 | <0.050 | | ppbv | |
| | | | 1,1,2-Trichloroethane | 2023/10/20 | <0.012 | | ppbv | |
| | | | 1,1,2,2-Tetrachloroethane | 2023/10/20 | <0.0027 | | ppbv | |
| | | | cis-1,3-Dichloropropene | 2023/10/20 | <0.050 | | ppbv | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | trans-1,3-Dichloropropene | 2023/10/20 | <0.050 | | ppbv | |
| | | | 1,2-Dichloropropane | 2023/10/20 | <0.050 | | ppbv | |
| | | | Bromomethane | 2023/10/20 | <0.050 | | ppbv | |
| | | | Bromoform | 2023/10/20 | <0.10 | | ppbv | |
| | | | Trichloroethylene | 2023/10/20 | <0.050 | | ppbv | |
| | | | Tetrachloroethylene | 2023/10/20 | <0.050 | | ppbv | |
| | | | Benzene | 2023/10/20 | <0.050 | | ppbv | |
| | | | Toluene | 2023/10/20 | <0.050 | | ppbv | |
| | | | Ethylbenzene | 2023/10/20 | <0.050 | | ppbv | |
| | | | p+m-Xylene | 2023/10/20 | <0.10 | | ppbv | |
| | | | o-Xylene | 2023/10/20 | <0.050 | | ppbv | |
| | | | Styrene | 2023/10/20 | <0.050 | | ppbv | |
| | | | Chlorobenzene | 2023/10/20 | <0.050 | | ppbv | |
| | | | 1,4-Dichlorobenzene | 2023/10/20 | <0.050 | | ppbv | |
| | | | 1,2-Dichlorobenzene | 2023/10/20 | <0.050 | | ppbv | |
| | | | 1,2,4-Trichlorobenzene | 2023/10/20 | <0.10 | | ppbv | |
| | | | Hexachlorobutadiene | 2023/10/20 | <0.0047 | | ppbv | |
| | | | Hexane | 2023/10/20 | <0.10 | | ppbv | |
| | | | Naphthalene | 2023/10/20 | <0.10 | | ppbv | |
| | | | Total Xylenes | 2023/10/20 | <0.15 | | ppbv | |
| | | | 1,1,1,2-Tetrachloroethane | 2023/10/20 | <0.021 | | ppbv | |
| 8994896 | ANE | RPD | 2-Propanone | 2023/10/20 | NC | | % | N/A |
| | | | Vinyl Chloride | 2023/10/20 | NC | | % | 25 |
| | | | Methyl Ethyl Ketone (2-Butanone) | 2023/10/20 | 3.7 | | % | 25 |
| | | | Methyl Isobutyl Ketone | 2023/10/20 | NC | | % | 25 |
| | | | Methyl t-butyl ether (MTBE) | 2023/10/20 | NC | | % | 25 |
| | | | 1,1-Dichloroethylene | 2023/10/20 | NC | | % | 25 |
| | | | cis-1,2-Dichloroethylene | 2023/10/20 | NC | | % | 25 |
| | | | trans-1,2-Dichloroethylene | 2023/10/20 | NC | | % | 25 |
| | | | Methylene Chloride(Dichloromethane) | 2023/10/20 | 2.6 | | % | 25 |
| | | | Chloroform | 2023/10/20 | NC | | % | 25 |
| | | | Carbon Tetrachloride | 2023/10/20 | 5.2 | | % | 25 |
| | | | 1,1-Dichloroethane | 2023/10/20 | NC | | % | 25 |
| | | | 1,2-Dichloroethane | 2023/10/20 | 3.4 | | % | 25 |
| | | | Ethylene Dibromide | 2023/10/20 | NC | | % | 25 |
| | | | 1,1,1-Trichloroethane | 2023/10/20 | NC | | % | 25 |
| | | | 1,1,2-Trichloroethane | 2023/10/20 | NC | | % | 25 |
| | | | 1,1,2,2-Tetrachloroethane | 2023/10/20 | NC | | % | 25 |
| | | | cis-1,3-Dichloropropene | 2023/10/20 | NC | | % | 25 |
| | | | trans-1,3-Dichloropropene | 2023/10/20 | NC | | % | 25 |
| | | | 1,2-Dichloropropane | 2023/10/20 | NC | | % | 25 |
| | | | Bromomethane | 2023/10/20 | NC | | % | 25 |
| | | | Bromoform | 2023/10/20 | NC | | % | 25 |
| | | | Trichloroethylene | 2023/10/20 | NC | | % | 25 |
| | | | Tetrachloroethylene | 2023/10/20 | NC | | % | 25 |
| | | | Benzene | 2023/10/20 | 3.1 | | % | 25 |
| | | | Toluene | 2023/10/20 | 1.1 | | % | 25 |
| | | | Ethylbenzene | 2023/10/20 | NC | | % | 25 |
| | | | p+m-Xylene | 2023/10/20 | NC | | % | 25 |
| | | | o-Xylene | 2023/10/20 | NC | | % | 25 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Styrene | 2023/10/20 | NC | | % | 25 |
| | | | Chlorobenzene | 2023/10/20 | NC | | % | 25 |
| | | | 1,4-Dichlorobenzene | 2023/10/20 | NC | | % | 25 |
| | | | 1,2-Dichlorobenzene | 2023/10/20 | NC | | % | 25 |
| | | | 1,2,4-Trichlorobenzene | 2023/10/20 | NC | | % | 25 |
| | | | Hexachlorobutadiene | 2023/10/20 | NC | | % | 25 |
| | | | Hexane | 2023/10/20 | NC | | % | 25 |
| | | | Naphthalene | 2023/10/20 | NC | | % | 25 |
| | | | Total Xylenes | 2023/10/20 | NC | | % | 25 |
| | | | 1,1,1,2-Tetrachloroethane | 2023/10/20 | NC | | % | 25 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3V7662
Report Date: 2023/10/26

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JMF

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Melanie Mabini, Team Leader

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: NA

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/11/28**
Report #: R7931034
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3Z9931**
**Received: 2023/11/16, 08:50**

Sample Matrix: Air
# Samples Received: 1

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | 1 | N/A | 2023/11/23 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air by GC/MS/SIM (1) | 1 | N/A | 2023/11/23 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air (TO-15) (2) | 1 | N/A | 2023/11/23 | BRL SOP-00304 | EPA TO-15 m |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCCFP, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: NA

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/11/28**
Report #: R7931034
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3Z9931**

**Received: 2023/11/16, 08:50**

(2) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key

Cristina (Maria) Bacchus
Project Manager
28 Nov 2023 16:23:49

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3Z9931
Report Date: 2023/11/28

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JMF

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| Bureau Veritas ID | | XPT901 | | |
|---|---|---|---|---|
| Sampling Date | | 2023/11/10 | | |
| COC Number | | NA | | |
| | UNITS | NOVEMBER 10TH SUMMA | RDL | QC Batch |
| **Volatile Organics** | | | | |
| Pressure on Receipt | psig | 0.90 | N/A | 9068006 |
| 2-Propanone | ppbv | 2.01 | 0.10 | 9068001 |
| Dichlorodifluoromethane (FREON 12) | ppbv | 0.51 | 0.20 | 9067995 |
| 1,2-Dichlorotetrafluoroethane | ppbv | <0.17 | 0.17 | 9067995 |
| Chloromethane | ppbv | 0.47 | 0.30 | 9067995 |
| Vinyl Chloride | ppbv | <0.020 | 0.020 | 9068001 |
| Chloroethane | ppbv | <0.30 | 0.30 | 9067995 |
| 1,3-Butadiene | ppbv | <0.50 | 0.50 | 9067995 |
| Trichlorofluoromethane (FREON 11) | ppbv | 0.28 | 0.20 | 9067995 |
| Ethanol (ethyl alcohol) | ppbv | <1.0 | 1.0 | 9067995 |
| Trichlorotrifluoroethane | ppbv | <0.15 | 0.15 | 9067995 |
| 2-propanol | ppbv | <1.0 | 1.0 | 9067995 |
| Methyl Ethyl Ketone (2-Butanone) | ppbv | 0.21 | 0.10 | 9068001 |
| Methyl Isobutyl Ketone | ppbv | <0.10 | 0.10 | 9068001 |
| Methyl Butyl Ketone (2-Hexanone) | ppbv | <1.0 | 1.0 | 9067995 |
| Methyl t-butyl ether (MTBE) | ppbv | <0.10 | 0.10 | 9068001 |
| Ethyl Acetate | ppbv | <1.0 | 1.0 | 9067995 |
| 1,1-Dichloroethylene | ppbv | <0.050 | 0.050 | 9068001 |
| cis-1,2-Dichloroethylene | ppbv | <0.050 | 0.050 | 9068001 |
| trans-1,2-Dichloroethylene | ppbv | <0.10 | 0.10 | 9068001 |
| Methylene Chloride(Dichloromethane) | ppbv | 1.20 | 0.050 | 9068001 |
| Chloroform | ppbv | <0.040 | 0.040 | 9068001 |
| Carbon Tetrachloride | ppbv | 0.110 | 0.050 | 9068001 |
| 1,1-Dichloroethane | ppbv | <0.050 | 0.050 | 9068001 |
| 1,2-Dichloroethane | ppbv | 0.017 | 0.010 | 9068001 |
| Ethylene Dibromide | ppbv | <0.010 | 0.010 | 9068001 |
| 1,1,1-Trichloroethane | ppbv | <0.050 | 0.050 | 9068001 |
| 1,1,2-Trichloroethane | ppbv | <0.012 | 0.012 | 9068001 |
| 1,1,2,2-Tetrachloroethane | ppbv | <0.0027 | 0.0027 | 9068001 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3Z9931
Report Date: 2023/11/28

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JMF

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| **Bureau Veritas ID** | | XPT901 | | |
|---|---|---|---|---|
| **Sampling Date** | | 2023/11/10 | | |
| **COC Number** | | NA | | |
| | **UNITS** | **NOVEMBER 10TH SUMMA** | **RDL** | **QC Batch** |
| cis-1,3-Dichloropropene | ppbv | <0.050 | 0.050 | 9068001 |
| trans-1,3-Dichloropropene | ppbv | <0.050 | 0.050 | 9068001 |
| 1,2-Dichloropropane | ppbv | <0.050 | 0.050 | 9068001 |
| Bromomethane | ppbv | <0.050 | 0.050 | 9068001 |
| Bromoform | ppbv | <0.10 | 0.10 | 9068001 |
| Bromodichloromethane | ppbv | <0.20 | 0.20 | 9067995 |
| Dibromochloromethane | ppbv | <0.20 | 0.20 | 9067995 |
| Trichloroethylene | ppbv | <0.050 | 0.050 | 9068001 |
| Tetrachloroethylene | ppbv | <0.050 | 0.050 | 9068001 |
| Benzene | ppbv | 0.094 | 0.050 | 9068001 |
| Toluene | ppbv | <0.050 | 0.050 | 9068001 |
| Ethylbenzene | ppbv | <0.050 | 0.050 | 9068001 |
| p+m-Xylene | ppbv | <0.10 | 0.10 | 9068001 |
| o-Xylene | ppbv | <0.050 | 0.050 | 9068001 |
| Styrene | ppbv | <0.050 | 0.050 | 9068001 |
| 4-ethyltoluene | ppbv | <0.50 | 0.50 | 9067995 |
| 1,3,5-Trimethylbenzene | ppbv | <0.50 | 0.50 | 9067995 |
| 1,2,4-Trimethylbenzene | ppbv | <0.50 | 0.50 | 9067995 |
| Chlorobenzene | ppbv | <0.050 | 0.050 | 9068001 |
| Benzyl chloride | ppbv | <0.50 | 0.50 | 9067995 |
| 1,3-Dichlorobenzene | ppbv | <0.40 | 0.40 | 9067995 |
| 1,4-Dichlorobenzene | ppbv | <0.050 | 0.050 | 9068001 |
| 1,2-Dichlorobenzene | ppbv | <0.050 | 0.050 | 9068001 |
| 1,2,4-Trichlorobenzene | ppbv | <0.10 | 0.10 | 9068001 |
| Hexachlorobutadiene | ppbv | <0.0047 | 0.0047 | 9068001 |
| Hexane | ppbv | <0.10 | 0.10 | 9068001 |
| Heptane | ppbv | <0.30 | 0.30 | 9067995 |
| Cyclohexane | ppbv | <0.20 | 0.20 | 9067995 |
| Tetrahydrofuran | ppbv | <0.40 | 0.40 | 9067995 |
| 1,4-Dioxane | ppbv | <1.0 | 1.0 | 9067995 |
| Naphthalene | ppbv | <0.10 | 0.10 | 9068001 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JMF

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| **Bureau Veritas ID** | | XPT901 | | |
|---|---|---|---|---|
| **Sampling Date** | | 2023/11/10 | | |
| **COC Number** | | NA | | |
| | **UNITS** | **NOVEMBER 10TH SUMMA** | **RDL** | **QC Batch** |
| Total Xylenes | ppbv | <0.15 | 0.15 | 9068001 |
| 1,1,1,2-Tetrachloroethane | ppbv | <0.021 | 0.021 | 9068001 |
| Vinyl Bromide | ppbv | <0.20 | 0.20 | 9067995 |
| Propene | ppbv | <0.50 | 0.50 | 9067995 |
| 2,2,4-Trimethylpentane | ppbv | <0.20 | 0.20 | 9067995 |
| Carbon Disulfide | ppbv | <0.50 | 0.50 | 9067995 |
| Vinyl Acetate | ppbv | <0.20 | 0.20 | 9067995 |
| **Surrogate Recovery (%)** | | | | |
| Bromochloromethane | % | 100 | N/A | 9068001 |
| D5-Chlorobenzene | % | 87 | N/A | 9068001 |
| Difluorobenzene | % | 90 | N/A | 9068001 |
| Bromochloromethane | % | 100 | N/A | 9067995 |
| D5-Chlorobenzene | % | 87 | N/A | 9067995 |
| Difluorobenzene | % | 90 | N/A | 9067995 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable


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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3Z9931
Report Date: 2023/11/28

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JMF

## TEST SUMMARY

**Bureau Veritas ID:** XPT901
**Sample ID:** NOVEMBER 10TH SUMMA
**Matrix:** Air

**Collected:** 2023/11/10
**Shipped:**
**Received:** 2023/11/16

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | PRES | 9068006 | N/A | 2023/11/23 | Ana Nunes |
| Volatile Organics in Air by GC/MS/SIM | GC/MS | 9068001 | N/A | 2023/11/23 | Ana Nunes |
| Volatile Organics in Air (TO-15) | GC/MS | 9067995 | N/A | 2023/11/23 | Ana Nunes |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 9067995 | Bromochloromethane | 2023/11/23 | 103 | 60 - 140 | 105 | % | | |
| 9067995 | D5-Chlorobenzene | 2023/11/23 | 113 | 60 - 140 | 87 | % | | |
| 9067995 | Difluorobenzene | 2023/11/23 | 110 | 60 - 140 | 94 | % | | |
| 9068001 | Bromochloromethane | 2023/11/23 | 103 | 60 - 140 | 105 | % | | |
| 9068001 | D5-Chlorobenzene | 2023/11/23 | 113 | 60 - 140 | 87 | % | | |
| 9068001 | Difluorobenzene | 2023/11/23 | 110 | 60 - 140 | 94 | % | | |
| 9067995 | 1,2,4-Trimethylbenzene | 2023/11/23 | 106 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 9067995 | 1,2-Dichlorotetrafluoroethane | 2023/11/23 | 95 | 70 - 130 | <0.17 | ppbv | NC (1) | 25 |
| 9067995 | 1,3,5-Trimethylbenzene | 2023/11/23 | 104 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 9067995 | 1,3-Butadiene | 2023/11/23 | 104 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 9067995 | 1,3-Dichlorobenzene | 2023/11/23 | 92 | 70 - 130 | <0.40 | ppbv | NC (1) | 25 |
| 9067995 | 1,4-Dioxane | 2023/11/23 | 108 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 9067995 | 2,2,4-Trimethylpentane | 2023/11/23 | 108 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 9067995 | 2-propanol | 2023/11/23 | 96 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 9067995 | 4-ethyltoluene | 2023/11/23 | 105 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 9067995 | Benzyl chloride | 2023/11/23 | 91 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 9067995 | Bromodichloromethane | 2023/11/23 | 92 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 9067995 | Carbon Disulfide | 2023/11/23 | 99 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 9067995 | Chloroethane | 2023/11/23 | 104 | 70 - 130 | <0.30 | ppbv | NC (1) | 25 |
| 9067995 | Chloromethane | 2023/11/23 | 102 | 70 - 130 | <0.30 | ppbv | 1.1 (1) | 25 |
| 9067995 | Cyclohexane | 2023/11/23 | 107 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 9067995 | Dibromochloromethane | 2023/11/23 | 99 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 9067995 | Dichlorodifluoromethane (FREON 12) | 2023/11/23 | 94 | 70 - 130 | <0.20 | ppbv | 4.6 (1) | 25 |
| 9067995 | Ethanol (ethyl alcohol) | 2023/11/23 | 91 | 70 - 130 | <1.0 | ppbv | 14 (1) | 25 |
| 9067995 | Ethyl Acetate | 2023/11/23 | 105 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 9067995 | Heptane | 2023/11/23 | 111 | 70 - 130 | <0.30 | ppbv | NC (1) | 25 |
| 9067995 | Methyl Butyl Ketone (2-Hexanone) | 2023/11/23 | 99 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 9067995 | Propene | 2023/11/23 | 104 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 9067995 | Tetrahydrofuran | 2023/11/23 | 107 | 70 - 130 | <0.40 | ppbv | NC (1) | 25 |
| 9067995 | Trichlorofluoromethane (FREON 11) | 2023/11/23 | 95 | 70 - 130 | <0.20 | ppbv | 1.9 (1) | 25 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 9067995 | Trichlorotrifluoroethane | 2023/11/23 | 102 | 70 - 130 | <0.15 | ppbv | NC (1) | 25 |
| 9067995 | Vinyl Acetate | 2023/11/23 | 105 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 9067995 | Vinyl Bromide | 2023/11/23 | 90 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 9068001 | 1,1,1,2-Tetrachloroethane | 2023/11/23 | 94 | 70 - 130 | <0.021 | ppbv | NC (1) | 25 |
| 9068001 | 1,1,1-Trichloroethane | 2023/11/23 | 95 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9068001 | 1,1,2,2-Tetrachloroethane | 2023/11/23 | 92 | 70 - 130 | <0.0027 | ppbv | NC (1) | 25 |
| 9068001 | 1,1,2-Trichloroethane | 2023/11/23 | 102 | 70 - 130 | <0.012 | ppbv | NC (1) | 25 |
| 9068001 | 1,1-Dichloroethane | 2023/11/23 | 96 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9068001 | 1,1-Dichloroethylene | 2023/11/23 | 90 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9068001 | 1,2,4-Trichlorobenzene | 2023/11/23 | 79 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 9068001 | 1,2-Dichlorobenzene | 2023/11/23 | 89 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9068001 | 1,2-Dichloroethane | 2023/11/23 | 99 | 70 - 130 | <0.010 | ppbv | 0.88 (1) | 25 |
| 9068001 | 1,2-Dichloropropane | 2023/11/23 | 104 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9068001 | 1,4-Dichlorobenzene | 2023/11/23 | 91 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9068001 | 2-Propanone | 2023/11/23 | 98 | 70 - 130 | <0.10 | ppbv | NC (1) | N/A |
| 9068001 | Benzene | 2023/11/23 | 107 | 70 - 130 | <0.050 | ppbv | 0.57 (1) | 25 |
| 9068001 | Bromoform | 2023/11/23 | 92 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 9068001 | Bromomethane | 2023/11/23 | 94 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9068001 | Carbon Tetrachloride | 2023/11/23 | 99 | 70 - 130 | <0.050 | ppbv | 0.48 (1) | 25 |
| 9068001 | Chlorobenzene | 2023/11/23 | 98 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9068001 | Chloroform | 2023/11/23 | 102 | 70 - 130 | <0.040 | ppbv | NC (1) | 25 |
| 9068001 | cis-1,2-Dichloroethylene | 2023/11/23 | 100 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9068001 | cis-1,3-Dichloropropene | 2023/11/23 | 103 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9068001 | Ethylbenzene | 2023/11/23 | 110 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9068001 | Ethylene Dibromide | 2023/11/23 | 103 | 70 - 130 | <0.010 | ppbv | NC (1) | 25 |
| 9068001 | Hexachlorobutadiene | 2023/11/23 | 80 | 70 - 130 | <0.0047 | ppbv | NC (1) | 25 |
| 9068001 | Hexane | 2023/11/23 | 102 | 70 - 130 | <0.10 | ppbv | 0.28 (1) | 25 |
| 9068001 | Methyl Ethyl Ketone (2-Butanone) | 2023/11/23 | 100 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 9068001 | Methyl Isobutyl Ketone | 2023/11/23 | 102 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 9068001 | Methyl t-butyl ether (MTBE) | 2023/11/23 | 91 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 9068001 | Methylene Chloride(Dichloromethane) | 2023/11/23 | 96 | 70 - 130 | <0.050 | ppbv | 4.5 (1) | 25 |
| 9068001 | Naphthalene | 2023/11/23 | 82 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 9068001 | o-Xylene | 2023/11/23 | 100 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9068001 | p+m-Xylene | 2023/11/23 | 108 | 70 - 130 | <0.10 | ppbv | 1.0 (1) | 25 |
| 9068001 | Styrene | 2023/11/23 | 106 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9068001 | Tetrachloroethylene | 2023/11/23 | 108 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9068001 | Toluene | 2023/11/23 | 114 | 70 - 130 | <0.050 | ppbv | 0.13 (1) | 25 |
| 9068001 | Total Xylenes | 2023/11/23 | 105 | 70 - 130 | <0.15 | ppbv | NC (1) | 25 |
| 9068001 | trans-1,2-Dichloroethylene | 2023/11/23 | 99 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 9068001 | trans-1,3-Dichloropropene | 2023/11/23 | 109 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9068001 | Trichloroethylene | 2023/11/23 | 105 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9068001 | Vinyl Chloride | 2023/11/23 | 103 | 70 - 130 | <0.020 | ppbv | NC (1) | 25 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Duplicate Parent ID



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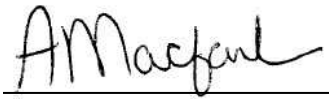
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3Z9931
Report Date: 2023/11/28

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JMF

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anke Macfarlane, Laboratory Manager, VOC

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

CAM FCD-01302 /3

BUREAU VERITAS

6740 Campobello Rd
Mississauga Ontario ,L5N 2L8
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

# Chain of Custody Form - Summa™ Canister

Page ____ of ____

**INVOICE INFORMATION**

Company Name:
Contact Name:
Address:
E-mail:
Ph:
Sampled by: Jacob McFee

**REPORT INFORMATION**

Company Name: Kinross
Project Manager: Jacob McFee
Address: 2 Industrial Park Road
Red Lake ON, CA, P0V 2M0
E-mail: jacob.mcfee@kinross.com
Ph: (807) 728-2185

**ANALYSIS REQUESTED**

| Field Sample ID | Canister Serial # | Flow Regulator Serial # | Collection Date | START VACUUM (inches of Hg) | END VACUUM (inches of Hg) | SOIL VAPOUR | AMBIENT/INDOOR AIR | AMBIENT/COMMERCIAL/INDUSTRIAL | SUB-SLAB GAS | FULL LIST OF VOCs (reference TO15A) | BTEX/Aromatic/Aliphatic Hydrocarbon Fractions | BTEX/F1 (C6-C10) and F2 (C10-C16) | Selected VOC's - please specify | Other | | | | CANISTERS NOT USED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| November 10th Summa | N/A | FX158 | 10-Nov | -27 | 0 | | X | | | X | | | | | | | | |

16-Nov-23 08:50
Gina Baybayan
C3Z9931
VKK AIR-001

**TAT Requirement**

- STD 10 Business day ☑
- Rush 5 Business day * ☐
- Rush 2 Business day * ☐
- Rush Other * ☐

* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2303.2023D.100
Name: Kinross Project
PO #: C026300307
Bureau Veritas Quote #:
Bureau Veritas Contact: Cristina Bacchus
Task Order/Line Item

**REPORTING REQUIREMENTS**

EDD ☑
Regulations ON 153 ☑
ON 419 ☑
BC CSR ☑
Other

**Notes**

*1) please indicate on chain of custody if your samples are soil vapour or ambient air*
*2) please list all canisters on the chain of custody even if unused*

**PROJECT SPECIFIC COMMENTS**

*Cannister does not hav SX Serial # / Can be identified with CANPRP6-A and XDA881-01*

PLEASE RETURN ALL UNUSED EQUIPMENT

Client Signature: Jacob McFee
Date/Time: Sep 8 2023, 8:20

Received by: Dave Pawandeep Kaur Kuba
Date/Time: 2023/11/16 8:50

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms*

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: NA

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/11/28**
Report #: R7931034
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3Z9931**
**Received: 2023/11/16, 08:50**

Sample Matrix: Air
# Samples Received: 1

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | 1 | N/A | 2023/11/23 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air by GC/MS/SIM (1) | 1 | N/A | 2023/11/23 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air (TO-15) (2) | 1 | N/A | 2023/11/23 | BRL SOP-00304 | EPA TO-15 m |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCCFP, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

(2) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: NA

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/11/28**
Report #: R7931034
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3Z9931**

**Received: 2023/11/16, 08:50**

analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key

Cristina (Maria) Bacchus
Project Manager
28 Nov 2023 16:23:51

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3Z9931
Report Date: 2023/11/28

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JMF

## RESULTS OF ANALYSES OF AIR

| Bureau Veritas ID | | XPT901 | |
|---|---|---|---|
| Sampling Date | | 2023/11/10 | |
| COC Number | | NA | |
| | UNITS | NOVEMBER 10TH SUMMA | QC Batch |
| **Volatile Organics** | | | |
| Pressure on Receipt | psig | 0.90 | 9068006 |
| QC Batch = Quality Control Batch | | | |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## VOLATILE ORGANICS BY GC/MS (AIR)

| Bureau Veritas ID | | XPT901 | | | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2023/11/10 | | | | |
| COC Number | | NA | | | | |
| | UNITS | NOVEMBER 10TH SUMMA | RDL | ug/m3 | DL (ug/m3) | QC Batch |
| **Volatile Organics** | | | | | | |
| 2-Propanone | ppbv | 2.01 | 0.10 | 4.78 | 0.238 | 9068001 |
| Dichlorodifluoromethane (FREON 12) | ppbv | 0.51 | 0.20 | 2.54 | 0.989 | 9067995 |
| 1,2-Dichlorotetrafluoroethane | ppbv | <0.17 | 0.17 | <1.19 | 1.19 | 9067995 |
| Chloromethane | ppbv | 0.47 | 0.30 | 0.975 | 0.620 | 9067995 |
| Vinyl Chloride | ppbv | <0.020 | 0.020 | <0.0511 | 0.0511 | 9068001 |
| Chloroethane | ppbv | <0.30 | 0.30 | <0.792 | 0.792 | 9067995 |
| 1,3-Butadiene | ppbv | <0.50 | 0.50 | <1.11 | 1.11 | 9067995 |
| Trichlorofluoromethane (FREON 11) | ppbv | 0.28 | 0.20 | 1.57 | 1.12 | 9067995 |
| Ethanol (ethyl alcohol) | ppbv | <1.0 | 1.0 | <1.88 | 1.88 | 9067995 |
| Trichlorotrifluoroethane | ppbv | <0.15 | 0.15 | <1.15 | 1.15 | 9067995 |
| 2-propanol | ppbv | <1.0 | 1.0 | <2.46 | 2.46 | 9067995 |
| Methyl Ethyl Ketone (2-Butanone) | ppbv | 0.21 | 0.10 | 0.625 | 0.295 | 9068001 |
| Methyl Isobutyl Ketone | ppbv | <0.10 | 0.10 | <0.410 | 0.410 | 9068001 |
| Methyl Butyl Ketone (2-Hexanone) | ppbv | <1.0 | 1.0 | <4.10 | 4.10 | 9067995 |
| Methyl t-butyl ether (MTBE) | ppbv | <0.10 | 0.10 | <0.361 | 0.361 | 9068001 |
| Ethyl Acetate | ppbv | <1.0 | 1.0 | <3.60 | 3.60 | 9067995 |
| 1,1-Dichloroethylene | ppbv | <0.050 | 0.050 | <0.198 | 0.198 | 9068001 |
| cis-1,2-Dichloroethylene | ppbv | <0.050 | 0.050 | <0.198 | 0.198 | 9068001 |
| trans-1,2-Dichloroethylene | ppbv | <0.10 | 0.10 | <0.396 | 0.396 | 9068001 |
| Methylene Chloride(Dichloromethane) | ppbv | 1.20 | 0.050 | 4.17 | 0.174 | 9068001 |
| Chloroform | ppbv | <0.040 | 0.040 | <0.195 | 0.195 | 9068001 |
| Carbon Tetrachloride | ppbv | 0.110 | 0.050 | 0.694 | 0.315 | 9068001 |
| 1,1-Dichloroethane | ppbv | <0.050 | 0.050 | <0.202 | 0.202 | 9068001 |
| 1,2-Dichloroethane | ppbv | 0.017 | 0.010 | 0.0703 | 0.0405 | 9068001 |
| Ethylene Dibromide | ppbv | <0.010 | 0.010 | <0.0768 | 0.0768 | 9068001 |
| 1,1,1-Trichloroethane | ppbv | <0.050 | 0.050 | <0.273 | 0.273 | 9068001 |
| 1,1,2-Trichloroethane | ppbv | <0.012 | 0.012 | <0.0655 | 0.0655 | 9068001 |
| 1,1,2,2-Tetrachloroethane | ppbv | <0.0027 | 0.0027 | <0.0185 | 0.0185 | 9068001 |
| cis-1,3-Dichloropropene | ppbv | <0.050 | 0.050 | <0.227 | 0.227 | 9068001 |
| trans-1,3-Dichloropropene | ppbv | <0.050 | 0.050 | <0.227 | 0.227 | 9068001 |
| 1,2-Dichloropropane | ppbv | <0.050 | 0.050 | <0.231 | 0.231 | 9068001 |
| Bromomethane | ppbv | <0.050 | 0.050 | <0.194 | 0.194 | 9068001 |
| Bromoform | ppbv | <0.10 | 0.10 | <1.03 | 1.03 | 9068001 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JMF

## VOLATILE ORGANICS BY GC/MS (AIR)

| Bureau Veritas ID | | XPT901 | | | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2023/11/10 | | | | |
| COC Number | | NA | | | | |
| | UNITS | NOVEMBER 10TH SUMMA | RDL | ug/m3 | DL (ug/m3) | QC Batch |
| Bromodichloromethane | ppbv | <0.20 | 0.20 | <1.34 | 1.34 | 9067995 |
| Dibromochloromethane | ppbv | <0.20 | 0.20 | <1.70 | 1.70 | 9067995 |
| Trichloroethylene | ppbv | <0.050 | 0.050 | <0.269 | 0.269 | 9068001 |
| Tetrachloroethylene | ppbv | <0.050 | 0.050 | <0.339 | 0.339 | 9068001 |
| Benzene | ppbv | 0.094 | 0.050 | 0.301 | 0.160 | 9068001 |
| Toluene | ppbv | <0.050 | 0.050 | <0.188 | 0.188 | 9068001 |
| Ethylbenzene | ppbv | <0.050 | 0.050 | <0.217 | 0.217 | 9068001 |
| p+m-Xylene | ppbv | <0.10 | 0.10 | <0.434 | 0.434 | 9068001 |
| o-Xylene | ppbv | <0.050 | 0.050 | <0.217 | 0.217 | 9068001 |
| Styrene | ppbv | <0.050 | 0.050 | <0.213 | 0.213 | 9068001 |
| 4-ethyltoluene | ppbv | <0.50 | 0.50 | <2.46 | 2.46 | 9067995 |
| 1,3,5-Trimethylbenzene | ppbv | <0.50 | 0.50 | <2.45 | 2.45 | 9067995 |
| 1,2,4-Trimethylbenzene | ppbv | <0.50 | 0.50 | <2.45 | 2.45 | 9067995 |
| Chlorobenzene | ppbv | <0.050 | 0.050 | <0.230 | 0.230 | 9068001 |
| Benzyl chloride | ppbv | <0.50 | 0.50 | <2.59 | 2.59 | 9067995 |
| 1,3-Dichlorobenzene | ppbv | <0.40 | 0.40 | <2.40 | 2.40 | 9067995 |
| 1,4-Dichlorobenzene | ppbv | <0.050 | 0.050 | <0.301 | 0.301 | 9068001 |
| 1,2-Dichlorobenzene | ppbv | <0.050 | 0.050 | <0.301 | 0.301 | 9068001 |
| 1,2,4-Trichlorobenzene | ppbv | <0.10 | 0.10 | <0.742 | 0.742 | 9068001 |
| Hexachlorobutadiene | ppbv | <0.0047 | 0.0047 | <0.0501 | 0.0501 | 9068001 |
| Hexane | ppbv | <0.10 | 0.10 | <0.352 | 0.352 | 9068001 |
| Heptane | ppbv | <0.30 | 0.30 | <1.23 | 1.23 | 9067995 |
| Cyclohexane | ppbv | <0.20 | 0.20 | <0.688 | 0.688 | 9067995 |
| Tetrahydrofuran | ppbv | <0.40 | 0.40 | <1.18 | 1.18 | 9067995 |
| 1,4-Dioxane | ppbv | <1.0 | 1.0 | <3.60 | 3.60 | 9067995 |
| Naphthalene | ppbv | <0.10 | 0.10 | <0.524 | 0.524 | 9068001 |
| Total Xylenes | ppbv | <0.15 | 0.15 | <0.651 | 0.651 | 9068001 |
| 1,1,1,2-Tetrachloroethane | ppbv | <0.021 | 0.021 | <0.144 | 0.144 | 9068001 |
| Vinyl Bromide | ppbv | <0.20 | 0.20 | <0.875 | 0.875 | 9067995 |
| Propene | ppbv | <0.50 | 0.50 | <0.861 | 0.861 | 9067995 |
| 2,2,4-Trimethylpentane | ppbv | <0.20 | 0.20 | <0.934 | 0.934 | 9067995 |
| Carbon Disulfide | ppbv | <0.50 | 0.50 | <1.56 | 1.56 | 9067995 |
| Vinyl Acetate | ppbv | <0.20 | 0.20 | <0.704 | 0.704 | 9067995 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3Z9931
Report Date: 2023/11/28

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JMF

## VOLATILE ORGANICS BY GC/MS (AIR)

| Bureau Veritas ID | | XPT901 | | | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2023/11/10 | | | | |
| COC Number | | NA | | | | |
| | UNITS | NOVEMBER 10TH SUMMA | RDL | ug/m3 | DL (ug/m3) | QC Batch |
| **Surrogate Recovery (%)** | | | | | | |
| Bromochloromethane | % | 100 | | N/A | N/A | 9068001 |
| D5-Chlorobenzene | % | 87 | | N/A | N/A | 9068001 |
| Difluorobenzene | % | 90 | | N/A | N/A | 9068001 |
| Bromochloromethane | % | 100 | | N/A | N/A | 9067995 |
| D5-Chlorobenzene | % | 87 | | N/A | N/A | 9067995 |
| Difluorobenzene | % | 90 | | N/A | N/A | 9067995 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



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## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9067995 | ANE | Spiked Blank | Bromochloromethane | 2023/11/23 | | 103 | % | 60 - 140 |
| | | | D5-Chlorobenzene | 2023/11/23 | | 113 | % | 60 - 140 |
| | | | Difluorobenzene | 2023/11/23 | | 110 | % | 60 - 140 |
| | | | Dichlorodifluoromethane (FREON 12) | 2023/11/23 | | 94 | % | 70 - 130 |
| | | | 1,2-Dichlorotetrafluoroethane | 2023/11/23 | | 95 | % | 70 - 130 |
| | | | Chloromethane | 2023/11/23 | | 102 | % | 70 - 130 |
| | | | Chloroethane | 2023/11/23 | | 104 | % | 70 - 130 |
| | | | 1,3-Butadiene | 2023/11/23 | | 104 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2023/11/23 | | 95 | % | 70 - 130 |
| | | | Ethanol (ethyl alcohol) | 2023/11/23 | | 91 | % | 70 - 130 |
| | | | Trichlorotrifluoroethane | 2023/11/23 | | 102 | % | 70 - 130 |
| | | | 2-propanol | 2023/11/23 | | 96 | % | 70 - 130 |
| | | | Methyl Butyl Ketone (2-Hexanone) | 2023/11/23 | | 99 | % | 70 - 130 |
| | | | Ethyl Acetate | 2023/11/23 | | 105 | % | 70 - 130 |
| | | | Bromodichloromethane | 2023/11/23 | | 92 | % | 70 - 130 |
| | | | Dibromochloromethane | 2023/11/23 | | 99 | % | 70 - 130 |
| | | | 4-ethyltoluene | 2023/11/23 | | 105 | % | 70 - 130 |
| | | | 1,3,5-Trimethylbenzene | 2023/11/23 | | 104 | % | 70 - 130 |
| | | | 1,2,4-Trimethylbenzene | 2023/11/23 | | 106 | % | 70 - 130 |
| | | | Benzyl chloride | 2023/11/23 | | 91 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2023/11/23 | | 92 | % | 70 - 130 |
| | | | Heptane | 2023/11/23 | | 111 | % | 70 - 130 |
| | | | Cyclohexane | 2023/11/23 | | 107 | % | 70 - 130 |
| | | | Tetrahydrofuran | 2023/11/23 | | 107 | % | 70 - 130 |
| | | | 1,4-Dioxane | 2023/11/23 | | 108 | % | 70 - 130 |
| | | | Vinyl Bromide | 2023/11/23 | | 90 | % | 70 - 130 |
| | | | Propene | 2023/11/23 | | 104 | % | 70 - 130 |
| | | | 2,2,4-Trimethylpentane | 2023/11/23 | | 108 | % | 70 - 130 |
| | | | Carbon Disulfide | 2023/11/23 | | 99 | % | 70 - 130 |
| | | | Vinyl Acetate | 2023/11/23 | | 105 | % | 70 - 130 |
| 9067995 | ANE | Method Blank | Bromochloromethane | 2023/11/23 | | 105 | % | 60 - 140 |
| | | | D5-Chlorobenzene | 2023/11/23 | | 87 | % | 60 - 140 |
| | | | Difluorobenzene | 2023/11/23 | | 94 | % | 60 - 140 |
| | | | Dichlorodifluoromethane (FREON 12) | 2023/11/23 | <0.20 | | ppbv | |
| | | | 1,2-Dichlorotetrafluoroethane | 2023/11/23 | <0.17 | | ppbv | |
| | | | Chloromethane | 2023/11/23 | <0.30 | | ppbv | |
| | | | Chloroethane | 2023/11/23 | <0.30 | | ppbv | |
| | | | 1,3-Butadiene | 2023/11/23 | <0.50 | | ppbv | |
| | | | Trichlorofluoromethane (FREON 11) | 2023/11/23 | <0.20 | | ppbv | |
| | | | Ethanol (ethyl alcohol) | 2023/11/23 | <1.0 | | ppbv | |
| | | | Trichlorotrifluoroethane | 2023/11/23 | <0.15 | | ppbv | |
| | | | 2-propanol | 2023/11/23 | <1.0 | | ppbv | |
| | | | Methyl Butyl Ketone (2-Hexanone) | 2023/11/23 | <1.0 | | ppbv | |
| | | | Ethyl Acetate | 2023/11/23 | <1.0 | | ppbv | |
| | | | Bromodichloromethane | 2023/11/23 | <0.20 | | ppbv | |
| | | | Dibromochloromethane | 2023/11/23 | <0.20 | | ppbv | |
| | | | 4-ethyltoluene | 2023/11/23 | <0.50 | | ppbv | |
| | | | 1,3,5-Trimethylbenzene | 2023/11/23 | <0.50 | | ppbv | |
| | | | 1,2,4-Trimethylbenzene | 2023/11/23 | <0.50 | | ppbv | |
| | | | Benzyl chloride | 2023/11/23 | <0.50 | | ppbv | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | 1,3-Dichlorobenzene | 2023/11/23 | <0.40 | | ppbv | |
| | | | Heptane | 2023/11/23 | <0.30 | | ppbv | |
| | | | Cyclohexane | 2023/11/23 | <0.20 | | ppbv | |
| | | | Tetrahydrofuran | 2023/11/23 | <0.40 | | ppbv | |
| | | | 1,4-Dioxane | 2023/11/23 | <1.0 | | ppbv | |
| | | | Vinyl Bromide | 2023/11/23 | <0.20 | | ppbv | |
| | | | Propene | 2023/11/23 | <0.50 | | ppbv | |
| | | | 2,2,4-Trimethylpentane | 2023/11/23 | <0.20 | | ppbv | |
| | | | Carbon Disulfide | 2023/11/23 | <0.50 | | ppbv | |
| | | | Vinyl Acetate | 2023/11/23 | <0.20 | | ppbv | |
| 9067995 | ANE | RPD | Dichlorodifluoromethane (FREON 12) | 2023/11/23 | 4.6 | | % | 25 |
| | | | 1,2-Dichlorotetrafluoroethane | 2023/11/23 | NC | | % | 25 |
| | | | Chloromethane | 2023/11/23 | 1.1 | | % | 25 |
| | | | Chloroethane | 2023/11/23 | NC | | % | 25 |
| | | | 1,3-Butadiene | 2023/11/23 | NC | | % | 25 |
| | | | Trichlorofluoromethane (FREON 11) | 2023/11/23 | 1.9 | | % | 25 |
| | | | Ethanol (ethyl alcohol) | 2023/11/23 | 14 | | % | 25 |
| | | | Trichlorotrifluoroethane | 2023/11/23 | NC | | % | 25 |
| | | | 2-propanol | 2023/11/23 | NC | | % | 25 |
| | | | Methyl Butyl Ketone (2-Hexanone) | 2023/11/23 | NC | | % | 25 |
| | | | Ethyl Acetate | 2023/11/23 | NC | | % | 25 |
| | | | Bromodichloromethane | 2023/11/23 | NC | | % | 25 |
| | | | Dibromochloromethane | 2023/11/23 | NC | | % | 25 |
| | | | 4-ethyltoluene | 2023/11/23 | NC | | % | 25 |
| | | | 1,3,5-Trimethylbenzene | 2023/11/23 | NC | | % | 25 |
| | | | 1,2,4-Trimethylbenzene | 2023/11/23 | NC | | % | 25 |
| | | | Benzyl chloride | 2023/11/23 | NC | | % | 25 |
| | | | 1,3-Dichlorobenzene | 2023/11/23 | NC | | % | 25 |
| | | | Heptane | 2023/11/23 | NC | | % | 25 |
| | | | Cyclohexane | 2023/11/23 | NC | | % | 25 |
| | | | Tetrahydrofuran | 2023/11/23 | NC | | % | 25 |
| | | | 1,4-Dioxane | 2023/11/23 | NC | | % | 25 |
| | | | Vinyl Bromide | 2023/11/23 | NC | | % | 25 |
| | | | Propene | 2023/11/23 | NC | | % | 25 |
| | | | 2,2,4-Trimethylpentane | 2023/11/23 | NC | | % | 25 |
| | | | Carbon Disulfide | 2023/11/23 | NC | | % | 25 |
| | | | Vinyl Acetate | 2023/11/23 | NC | | % | 25 |
| 9068001 | ANE | Spiked Blank | 2-Propanone | 2023/11/23 | | 98 | % | 70 - 130 |
| | | | Bromochloromethane | 2023/11/23 | | 103 | % | 60 - 140 |
| | | | D5-Chlorobenzene | 2023/11/23 | | 113 | % | 60 - 140 |
| | | | Difluorobenzene | 2023/11/23 | | 110 | % | 60 - 140 |
| | | | Vinyl Chloride | 2023/11/23 | | 103 | % | 70 - 130 |
| | | | Methyl Ethyl Ketone (2-Butanone) | 2023/11/23 | | 100 | % | 70 - 130 |
| | | | Methyl Isobutyl Ketone | 2023/11/23 | | 102 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2023/11/23 | | 91 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2023/11/23 | | 90 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2023/11/23 | | 100 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2023/11/23 | | 99 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2023/11/23 | | 96 | % | 70 - 130 |
| | | | Chloroform | 2023/11/23 | | 102 | % | 70 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Carbon Tetrachloride | 2023/11/23 | | 99 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2023/11/23 | | 96 | % | 70 - 130 |
| | | | 1,2-Dichloroethane | 2023/11/23 | | 99 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2023/11/23 | | 103 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2023/11/23 | | 95 | % | 70 - 130 |
| | | | 1,1,2-Trichloroethane | 2023/11/23 | | 102 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2023/11/23 | | 92 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2023/11/23 | | 103 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2023/11/23 | | 109 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2023/11/23 | | 104 | % | 70 - 130 |
| | | | Bromomethane | 2023/11/23 | | 94 | % | 70 - 130 |
| | | | Bromoform | 2023/11/23 | | 92 | % | 70 - 130 |
| | | | Trichloroethylene | 2023/11/23 | | 105 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2023/11/23 | | 108 | % | 70 - 130 |
| | | | Benzene | 2023/11/23 | | 107 | % | 70 - 130 |
| | | | Toluene | 2023/11/23 | | 114 | % | 70 - 130 |
| | | | Ethylbenzene | 2023/11/23 | | 110 | % | 70 - 130 |
| | | | p+m-Xylene | 2023/11/23 | | 108 | % | 70 - 130 |
| | | | o-Xylene | 2023/11/23 | | 100 | % | 70 - 130 |
| | | | Styrene | 2023/11/23 | | 106 | % | 70 - 130 |
| | | | Chlorobenzene | 2023/11/23 | | 98 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2023/11/23 | | 91 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2023/11/23 | | 89 | % | 70 - 130 |
| | | | 1,2,4-Trichlorobenzene | 2023/11/23 | | 79 | % | 70 - 130 |
| | | | Hexachlorobutadiene | 2023/11/23 | | 80 | % | 70 - 130 |
| | | | Hexane | 2023/11/23 | | 102 | % | 70 - 130 |
| | | | Naphthalene | 2023/11/23 | | 82 | % | 70 - 130 |
| | | | Total Xylenes | 2023/11/23 | | 105 | % | 70 - 130 |
| | | | 1,1,1,2-Tetrachloroethane | 2023/11/23 | | 94 | % | 70 - 130 |
| 9068001 | ANE | Method Blank | 2-Propanone | 2023/11/23 | <0.10 | | ppbv | |
| | | | Bromochloromethane | 2023/11/23 | | 105 | % | 60 - 140 |
| | | | D5-Chlorobenzene | 2023/11/23 | | 87 | % | 60 - 140 |
| | | | Difluorobenzene | 2023/11/23 | | 94 | % | 60 - 140 |
| | | | Vinyl Chloride | 2023/11/23 | <0.020 | | ppbv | |
| | | | Methyl Ethyl Ketone (2-Butanone) | 2023/11/23 | <0.10 | | ppbv | |
| | | | Methyl Isobutyl Ketone | 2023/11/23 | <0.10 | | ppbv | |
| | | | Methyl t-butyl ether (MTBE) | 2023/11/23 | <0.10 | | ppbv | |
| | | | 1,1-Dichloroethylene | 2023/11/23 | <0.050 | | ppbv | |
| | | | cis-1,2-Dichloroethylene | 2023/11/23 | <0.050 | | ppbv | |
| | | | trans-1,2-Dichloroethylene | 2023/11/23 | <0.10 | | ppbv | |
| | | | Methylene Chloride(Dichloromethane) | 2023/11/23 | <0.050 | | ppbv | |
| | | | Chloroform | 2023/11/23 | <0.040 | | ppbv | |
| | | | Carbon Tetrachloride | 2023/11/23 | <0.050 | | ppbv | |
| | | | 1,1-Dichloroethane | 2023/11/23 | <0.050 | | ppbv | |
| | | | 1,2-Dichloroethane | 2023/11/23 | <0.010 | | ppbv | |
| | | | Ethylene Dibromide | 2023/11/23 | <0.010 | | ppbv | |
| | | | 1,1,1-Trichloroethane | 2023/11/23 | <0.050 | | ppbv | |
| | | | 1,1,2-Trichloroethane | 2023/11/23 | <0.012 | | ppbv | |
| | | | 1,1,2,2-Tetrachloroethane | 2023/11/23 | <0.0027 | | ppbv | |
| | | | cis-1,3-Dichloropropene | 2023/11/23 | <0.050 | | ppbv | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | trans-1,3-Dichloropropene | 2023/11/23 | <0.050 | | ppbv | |
| | | | 1,2-Dichloropropane | 2023/11/23 | <0.050 | | ppbv | |
| | | | Bromomethane | 2023/11/23 | <0.050 | | ppbv | |
| | | | Bromoform | 2023/11/23 | <0.10 | | ppbv | |
| | | | Trichloroethylene | 2023/11/23 | <0.050 | | ppbv | |
| | | | Tetrachloroethylene | 2023/11/23 | <0.050 | | ppbv | |
| | | | Benzene | 2023/11/23 | <0.050 | | ppbv | |
| | | | Toluene | 2023/11/23 | <0.050 | | ppbv | |
| | | | Ethylbenzene | 2023/11/23 | <0.050 | | ppbv | |
| | | | p+m-Xylene | 2023/11/23 | <0.10 | | ppbv | |
| | | | o-Xylene | 2023/11/23 | <0.050 | | ppbv | |
| | | | Styrene | 2023/11/23 | <0.050 | | ppbv | |
| | | | Chlorobenzene | 2023/11/23 | <0.050 | | ppbv | |
| | | | 1,4-Dichlorobenzene | 2023/11/23 | <0.050 | | ppbv | |
| | | | 1,2-Dichlorobenzene | 2023/11/23 | <0.050 | | ppbv | |
| | | | 1,2,4-Trichlorobenzene | 2023/11/23 | <0.10 | | ppbv | |
| | | | Hexachlorobutadiene | 2023/11/23 | <0.0047 | | ppbv | |
| | | | Hexane | 2023/11/23 | <0.10 | | ppbv | |
| | | | Naphthalene | 2023/11/23 | <0.10 | | ppbv | |
| | | | Total Xylenes | 2023/11/23 | <0.15 | | ppbv | |
| | | | 1,1,1,2-Tetrachloroethane | 2023/11/23 | <0.021 | | ppbv | |
| 9068001 | ANE | RPD | 2-Propanone | 2023/11/23 | NC | | % | N/A |
| | | | Vinyl Chloride | 2023/11/23 | NC | | % | 25 |
| | | | Methyl Ethyl Ketone (2-Butanone) | 2023/11/23 | NC | | % | 25 |
| | | | Methyl Isobutyl Ketone | 2023/11/23 | NC | | % | 25 |
| | | | Methyl t-butyl ether (MTBE) | 2023/11/23 | NC | | % | 25 |
| | | | 1,1-Dichloroethylene | 2023/11/23 | NC | | % | 25 |
| | | | cis-1,2-Dichloroethylene | 2023/11/23 | NC | | % | 25 |
| | | | trans-1,2-Dichloroethylene | 2023/11/23 | NC | | % | 25 |
| | | | Methylene Chloride(Dichloromethane) | 2023/11/23 | 4.5 | | % | 25 |
| | | | Chloroform | 2023/11/23 | NC | | % | 25 |
| | | | Carbon Tetrachloride | 2023/11/23 | 0.48 | | % | 25 |
| | | | 1,1-Dichloroethane | 2023/11/23 | NC | | % | 25 |
| | | | 1,2-Dichloroethane | 2023/11/23 | 0.88 | | % | 25 |
| | | | Ethylene Dibromide | 2023/11/23 | NC | | % | 25 |
| | | | 1,1,1-Trichloroethane | 2023/11/23 | NC | | % | 25 |
| | | | 1,1,2-Trichloroethane | 2023/11/23 | NC | | % | 25 |
| | | | 1,1,2,2-Tetrachloroethane | 2023/11/23 | NC | | % | 25 |
| | | | cis-1,3-Dichloropropene | 2023/11/23 | NC | | % | 25 |
| | | | trans-1,3-Dichloropropene | 2023/11/23 | NC | | % | 25 |
| | | | 1,2-Dichloropropane | 2023/11/23 | NC | | % | 25 |
| | | | Bromomethane | 2023/11/23 | NC | | % | 25 |
| | | | Bromoform | 2023/11/23 | NC | | % | 25 |
| | | | Trichloroethylene | 2023/11/23 | NC | | % | 25 |
| | | | Tetrachloroethylene | 2023/11/23 | NC | | % | 25 |
| | | | Benzene | 2023/11/23 | 0.57 | | % | 25 |
| | | | Toluene | 2023/11/23 | 0.13 | | % | 25 |
| | | | Ethylbenzene | 2023/11/23 | NC | | % | 25 |
| | | | p+m-Xylene | 2023/11/23 | 1.0 | | % | 25 |
| | | | o-Xylene | 2023/11/23 | NC | | % | 25 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Styrene | 2023/11/23 | NC | | % | 25 |
| | | | Chlorobenzene | 2023/11/23 | NC | | % | 25 |
| | | | 1,4-Dichlorobenzene | 2023/11/23 | NC | | % | 25 |
| | | | 1,2-Dichlorobenzene | 2023/11/23 | NC | | % | 25 |
| | | | 1,2,4-Trichlorobenzene | 2023/11/23 | NC | | % | 25 |
| | | | Hexachlorobutadiene | 2023/11/23 | NC | | % | 25 |
| | | | Hexane | 2023/11/23 | 0.28 | | % | 25 |
| | | | Naphthalene | 2023/11/23 | NC | | % | 25 |
| | | | Total Xylenes | 2023/11/23 | NC | | % | 25 |
| | | | 1,1,1,2-Tetrachloroethane | 2023/11/23 | NC | | % | 25 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



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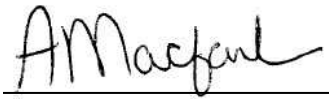
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3Z9931
Report Date: 2023/11/28

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JMF

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anke Macfarlane, Laboratory Manager, VOC

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: NA

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/12/22**
Report #: R7966609
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3BB980**
**Received: 2023/12/11, 08:57**

Sample Matrix: Air
# Samples Received: 1

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | 1 | N/A | 2023/12/14 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air by GC/MS/SIM (1) | 1 | N/A | 2023/12/14 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air (TO-15) (2) | 1 | N/A | 2023/12/14 | BRL SOP-00304 | EPA TO-15 m |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCCFP, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: NA

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/12/22**
Report #: R7966609
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3BB980**

**Received: 2023/12/11, 08:57**

(2) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key

Cristina (Maria) Bacchus
Project Manager
22 Dec 2023 11:46:09

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| **Bureau Veritas ID** | | XVU128 | | |
|---|---|---|---|---|
| **Sampling Date** | | 2023/12/06 | | |
| **COC Number** | | NA | | |
| | **UNITS** | **DECEMBER 5TH SUMMA/SX1751** | **RDL** | **QC Batch** |
| **Volatile Organics** | | | | |
| Pressure on Receipt | psig | 0.30 | N/A | 9112353 |
| 2-Propanone | ppbv | 0.88 | 0.10 | 9112349 |
| Dichlorodifluoromethane (FREON 12) | ppbv | 0.48 | 0.20 | 9112347 |
| 1,2-Dichlorotetrafluoroethane | ppbv | <0.17 | 0.17 | 9112347 |
| Chloromethane | ppbv | 0.41 | 0.30 | 9112347 |
| Vinyl Chloride | ppbv | <0.020 | 0.020 | 9112349 |
| Chloroethane | ppbv | <0.30 | 0.30 | 9112347 |
| 1,3-Butadiene | ppbv | <0.50 | 0.50 | 9112347 |
| Trichlorofluoromethane (FREON 11) | ppbv | 0.25 | 0.20 | 9112347 |
| Ethanol (ethyl alcohol) | ppbv | <1.0 | 1.0 | 9112347 |
| Trichlorotrifluoroethane | ppbv | <0.15 | 0.15 | 9112347 |
| 2-propanol | ppbv | <1.0 | 1.0 | 9112347 |
| Methyl Ethyl Ketone (2-Butanone) | ppbv | 0.10 | 0.10 | 9112349 |
| Methyl Isobutyl Ketone | ppbv | <0.10 | 0.10 | 9112349 |
| Methyl Butyl Ketone (2-Hexanone) | ppbv | <1.0 | 1.0 | 9112347 |
| Methyl t-butyl ether (MTBE) | ppbv | <0.10 | 0.10 | 9112349 |
| Ethyl Acetate | ppbv | <1.0 | 1.0 | 9112347 |
| 1,1-Dichloroethylene | ppbv | <0.050 | 0.050 | 9112349 |
| cis-1,2-Dichloroethylene | ppbv | <0.050 | 0.050 | 9112349 |
| trans-1,2-Dichloroethylene | ppbv | <0.10 | 0.10 | 9112349 |
| Methylene Chloride(Dichloromethane) | ppbv | 0.122 | 0.050 | 9112349 |
| Chloroform | ppbv | <0.040 | 0.040 | 9112349 |
| Carbon Tetrachloride | ppbv | 0.106 | 0.050 | 9112349 |
| 1,1-Dichloroethane | ppbv | <0.050 | 0.050 | 9112349 |
| 1,2-Dichloroethane | ppbv | 0.022 | 0.010 | 9112349 |
| Ethylene Dibromide | ppbv | <0.010 | 0.010 | 9112349 |
| 1,1,1-Trichloroethane | ppbv | <0.050 | 0.050 | 9112349 |
| 1,1,2-Trichloroethane | ppbv | <0.012 | 0.012 | 9112349 |
| 1,1,2,2-Tetrachloroethane | ppbv | <0.0027 | 0.0027 | 9112349 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| **Bureau Veritas ID** | | XVU128 | | |
|---|---|---|---|---|
| **Sampling Date** | | 2023/12/06 | | |
| **COC Number** | | NA | | |
| | **UNITS** | **DECEMBER 5TH SUMMA/SX1751** | **RDL** | **QC Batch** |
| cis-1,3-Dichloropropene | ppbv | <0.050 | 0.050 | 9112349 |
| trans-1,3-Dichloropropene | ppbv | <0.050 | 0.050 | 9112349 |
| 1,2-Dichloropropane | ppbv | <0.050 | 0.050 | 9112349 |
| Bromomethane | ppbv | <0.050 | 0.050 | 9112349 |
| Bromoform | ppbv | <0.10 | 0.10 | 9112349 |
| Bromodichloromethane | ppbv | <0.20 | 0.20 | 9112347 |
| Dibromochloromethane | ppbv | <0.20 | 0.20 | 9112347 |
| Trichloroethylene | ppbv | <0.050 | 0.050 | 9112349 |
| Tetrachloroethylene | ppbv | <0.050 | 0.050 | 9112349 |
| Benzene | ppbv | 0.107 | 0.050 | 9112349 |
| Toluene | ppbv | <0.050 | 0.050 | 9112349 |
| Ethylbenzene | ppbv | <0.050 | 0.050 | 9112349 |
| p+m-Xylene | ppbv | <0.10 | 0.10 | 9112349 |
| o-Xylene | ppbv | <0.050 | 0.050 | 9112349 |
| Styrene | ppbv | <0.050 | 0.050 | 9112349 |
| 4-ethyltoluene | ppbv | <0.50 | 0.50 | 9112347 |
| 1,3,5-Trimethylbenzene | ppbv | <0.50 | 0.50 | 9112347 |
| 1,2,4-Trimethylbenzene | ppbv | <0.50 | 0.50 | 9112347 |
| Chlorobenzene | ppbv | <0.050 | 0.050 | 9112349 |
| Benzyl chloride | ppbv | <0.50 | 0.50 | 9112347 |
| 1,3-Dichlorobenzene | ppbv | <0.40 | 0.40 | 9112347 |
| 1,4-Dichlorobenzene | ppbv | <0.050 | 0.050 | 9112349 |
| 1,2-Dichlorobenzene | ppbv | <0.050 | 0.050 | 9112349 |
| 1,2,4-Trichlorobenzene | ppbv | <0.10 | 0.10 | 9112349 |
| Hexachlorobutadiene | ppbv | <0.0047 | 0.0047 | 9112349 |
| Hexane | ppbv | <0.10 | 0.10 | 9112349 |
| Heptane | ppbv | <0.30 | 0.30 | 9112347 |
| Cyclohexane | ppbv | <0.20 | 0.20 | 9112347 |
| Tetrahydrofuran | ppbv | <0.40 | 0.40 | 9112347 |
| 1,4-Dioxane | ppbv | <1.0 | 1.0 | 9112347 |
| Naphthalene | ppbv | <0.10 | 0.10 | 9112349 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| **Bureau Veritas ID** | | XVU128 | | |
|---|---|---|---|---|
| **Sampling Date** | | 2023/12/06 | | |
| **COC Number** | | NA | | |
| | **UNITS** | **DECEMBER 5TH SUMMA/SX1751** | **RDL** | **QC Batch** |
| Total Xylenes | ppbv | <0.15 | 0.15 | 9112349 |
| 1,1,1,2-Tetrachloroethane | ppbv | <0.021 | 0.021 | 9112349 |
| Vinyl Bromide | ppbv | <0.20 | 0.20 | 9112347 |
| Propene | ppbv | <0.70 | 0.70 | 9112347 |
| 2,2,4-Trimethylpentane | ppbv | <0.20 | 0.20 | 9112347 |
| Carbon Disulfide | ppbv | <0.50 | 0.50 | 9112347 |
| Vinyl Acetate | ppbv | <0.20 | 0.20 | 9112347 |
| **Surrogate Recovery (%)** | | | | |
| Bromochloromethane | % | 106 | N/A | 9112349 |
| D5-Chlorobenzene | % | 87 | N/A | 9112349 |
| Difluorobenzene | % | 84 | N/A | 9112349 |
| Bromochloromethane | % | 106 | N/A | 9112347 |
| D5-Chlorobenzene | % | 87 | N/A | 9112347 |
| Difluorobenzene | % | 84 | N/A | 9112347 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Bureau Veritas Job #: C3BB980
Report Date: 2023/12/22

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** XVU128
**Sample ID:** DECEMBER 5TH SUMMA/SX1751
**Matrix:** Air

**Collected:** 2023/12/06
**Shipped:**
**Received:** 2023/12/11

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | PRES | 9112353 | N/A | 2023/12/14 | Ana Nunes |
| Volatile Organics in Air by GC/MS/SIM | GC/MS | 9112349 | N/A | 2023/12/14 | Ana Nunes |
| Volatile Organics in Air (TO-15) | GC/MS | 9112347 | N/A | 2023/12/14 | Ana Nunes |



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## GENERAL COMMENTS

Increased DL for propene due to interference from propane.

**Results relate only to the items tested.**



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## QUALITY ASSURANCE REPORT



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 9112347 | Bromochloromethane | 2023/12/14 | 113 | 60 - 140 | 114 | % | | |
| 9112347 | D5-Chlorobenzene | 2023/12/14 | 117 | 60 - 140 | 87 | % | | |
| 9112347 | Difluorobenzene | 2023/12/14 | 120 | 60 - 140 | 96 | % | | |
| 9112349 | Bromochloromethane | 2023/12/14 | 113 | 60 - 140 | 114 | % | | |
| 9112349 | D5-Chlorobenzene | 2023/12/14 | 117 | 60 - 140 | 87 | % | | |
| 9112349 | Difluorobenzene | 2023/12/14 | 120 | 60 - 140 | 96 | % | | |
| 9112347 | 1,2,4-Trimethylbenzene | 2023/12/14 | 113 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 9112347 | 1,2-Dichlorotetrafluoroethane | 2023/12/14 | 87 | 70 - 130 | <0.17 | ppbv | NC (1) | 25 |
| 9112347 | 1,3,5-Trimethylbenzene | 2023/12/14 | 110 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 9112347 | 1,3-Butadiene | 2023/12/14 | 98 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 9112347 | 1,3-Dichlorobenzene | 2023/12/14 | 102 | 70 - 130 | <0.40 | ppbv | NC (1) | 25 |
| 9112347 | 1,4-Dioxane | 2023/12/14 | 99 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 9112347 | 2,2,4-Trimethylpentane | 2023/12/14 | 98 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 9112347 | 2-propanol | 2023/12/14 | 91 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 9112347 | 4-ethyltoluene | 2023/12/14 | 107 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 9112347 | Benzyl chloride | 2023/12/14 | 107 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 9112347 | Bromodichloromethane | 2023/12/14 | 83 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 9112347 | Carbon Disulfide | 2023/12/14 | 92 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 9112347 | Chloroethane | 2023/12/14 | 89 | 70 - 130 | <0.30 | ppbv | NC (1) | 25 |
| 9112347 | Chloromethane | 2023/12/14 | 89 | 70 - 130 | <0.30 | ppbv | 0.014 (1) | 25 |
| 9112347 | Cyclohexane | 2023/12/14 | 103 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 9112347 | Dibromochloromethane | 2023/12/14 | 91 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 9112347 | Dichlorodifluoromethane (FREON 12) | 2023/12/14 | 86 | 70 - 130 | <0.20 | ppbv | 2.3 (1) | 25 |
| 9112347 | Ethanol (ethyl alcohol) | 2023/12/14 | 92 | 70 - 130 | <1.0 | ppbv | 7.8 (1) | 25 |
| 9112347 | Ethyl Acetate | 2023/12/14 | 98 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 9112347 | Heptane | 2023/12/14 | 103 | 70 - 130 | <0.30 | ppbv | NC (1) | 25 |
| 9112347 | Methyl Butyl Ketone (2-Hexanone) | 2023/12/14 | 96 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 9112347 | Propene | 2023/12/14 | 102 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 9112347 | Tetrahydrofuran | 2023/12/14 | 108 | 70 - 130 | <0.40 | ppbv | NC (1) | 25 |
| 9112347 | Trichlorofluoromethane (FREON 11) | 2023/12/14 | 87 | 70 - 130 | <0.20 | ppbv | 5.3 (1) | 25 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 9112347 | Trichlorotrifluoroethane | 2023/12/14 | 89 | 70 - 130 | <0.15 | ppbv | NC (1) | 25 |
| 9112347 | Vinyl Acetate | 2023/12/14 | 112 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 9112347 | Vinyl Bromide | 2023/12/14 | 81 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 9112349 | 1,1,1,2-Tetrachloroethane | 2023/12/14 | 89 | 70 - 130 | <0.021 | ppbv | NC (1) | 25 |
| 9112349 | 1,1,1-Trichloroethane | 2023/12/14 | 88 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9112349 | 1,1,2,2-Tetrachloroethane | 2023/12/14 | 89 | 70 - 130 | <0.0027 | ppbv | NC (1) | 25 |
| 9112349 | 1,1,2-Trichloroethane | 2023/12/14 | 92 | 70 - 130 | <0.012 | ppbv | NC (1) | 25 |
| 9112349 | 1,1-Dichloroethane | 2023/12/14 | 89 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9112349 | 1,1-Dichloroethylene | 2023/12/14 | 97 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9112349 | 1,2,4-Trichlorobenzene | 2023/12/14 | 111 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 9112349 | 1,2-Dichlorobenzene | 2023/12/14 | 100 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9112349 | 1,2-Dichloroethane | 2023/12/14 | 93 | 70 - 130 | <0.010 | ppbv | 2.2 (1) | 25 |
| 9112349 | 1,2-Dichloropropane | 2023/12/14 | 90 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9112349 | 1,4-Dichlorobenzene | 2023/12/14 | 104 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9112349 | 2-Propanone | 2023/12/14 | 82 | 70 - 130 | <0.10 | ppbv | NC (1) | N/A |
| 9112349 | Benzene | 2023/12/14 | 98 | 70 - 130 | <0.050 | ppbv | 0.14 (1) | 25 |
| 9112349 | Bromoform | 2023/12/14 | 93 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 9112349 | Bromomethane | 2023/12/14 | 83 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9112349 | Carbon Tetrachloride | 2023/12/14 | 87 | 70 - 130 | <0.050 | ppbv | 1.1 (1) | 25 |
| 9112349 | Chlorobenzene | 2023/12/14 | 96 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9112349 | Chloroform | 2023/12/14 | 92 | 70 - 130 | <0.040 | ppbv | NC (1) | 25 |
| 9112349 | cis-1,2-Dichloroethylene | 2023/12/14 | 96 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9112349 | cis-1,3-Dichloropropene | 2023/12/14 | 98 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9112349 | Ethylbenzene | 2023/12/14 | 102 | 70 - 130 | <0.050 | ppbv | 0.44 (1) | 25 |
| 9112349 | Ethylene Dibromide | 2023/12/14 | 95 | 70 - 130 | <0.010 | ppbv | NC (1) | 25 |
| 9112349 | Hexachlorobutadiene | 2023/12/14 | 99 | 70 - 130 | <0.0047 | ppbv | NC (1) | 25 |
| 9112349 | Hexane | 2023/12/14 | 101 | 70 - 130 | <0.10 | ppbv | 0.94 (1) | 25 |
| 9112349 | Methyl Ethyl Ketone (2-Butanone) | 2023/12/14 | 100 | 70 - 130 | <0.10 | ppbv | 3.2 (1) | 25 |
| 9112349 | Methyl Isobutyl Ketone | 2023/12/14 | 95 | 70 - 130 | <0.10 | ppbv | 3.8 (1) | 25 |
| 9112349 | Methyl t-butyl ether (MTBE) | 2023/12/14 | 88 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |



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## QUALITY ASSURANCE REPORT(CONT'D)



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 9112349 | Methylene Chloride(Dichloromethane) | 2023/12/14 | 92 | 70 - 130 | <0.050 | ppbv | 3.4 (1) | 25 |
| 9112349 | Naphthalene | 2023/12/14 | 125 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 9112349 | o-Xylene | 2023/12/14 | 98 | 70 - 130 | <0.050 | ppbv | 0.28 (1) | 25 |
| 9112349 | p+m-Xylene | 2023/12/14 | 105 | 70 - 130 | <0.10 | ppbv | 1.8 (1) | 25 |
| 9112349 | Styrene | 2023/12/14 | 112 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9112349 | Tetrachloroethylene | 2023/12/14 | 103 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9112349 | Toluene | 2023/12/14 | 101 | 70 - 130 | <0.050 | ppbv | 0.94 (1) | 25 |
| 9112349 | Total Xylenes | 2023/12/14 | 103 | 70 - 130 | <0.15 | ppbv | 1.5 (1) | 25 |
| 9112349 | trans-1,2-Dichloroethylene | 2023/12/14 | 96 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 9112349 | trans-1,3-Dichloropropene | 2023/12/14 | 103 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9112349 | Trichloroethylene | 2023/12/14 | 97 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9112349 | Vinyl Chloride | 2023/12/14 | 90 | 70 - 130 | <0.020 | ppbv | NC (1) | 25 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Duplicate Parent ID



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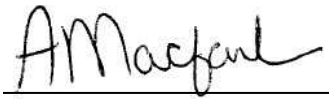
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3BB980
Report Date: 2023/12/22

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anke Macfarlane, Laboratory Manager, VOC

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CAM FCD-01302 /3

6740 Campobello Rd
Mississauga Ontario ,L5N 2L8
www.bvlabs.com

Toll Fre
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11-Dec-23 08:57
Gina Baybayan
C3BB980
WKK AIR-001

**Form - Summa™ Canister**

Page 1 of 1

| INVOICE INFORMATION | | REPORT INFORMA | |
|---|---|---|---|
| **Company Name:** | | **Company Name:** | Kinross/W |
| **Contact Name** | Ryan Fletcher | **Project Manager:** | Ryan Fle |
| **Address:** | | **Address:** | 19 Young Street,<br>Red Lake ON, CA, P0V 2M0 |
| **E-mail:** | APInvoice.Canada@woodplc.com | **E-mail:** | See comments below for list |
| **Ph:** | | **Ph:** | 1 647-283-4638 |
| **Sampled by:** | Jacob McFee | | |

**ANALYSIS REQUESTED**

| Field Sample ID | Canister Serial # | Flow Regulator Serial # | Collection Date | START VACUUM (inches of | END VACUUM (inches of Hg | SOIL VAPOUR | AMBIENT/INDOOR AIR | AMBIENT/COMMERCIAL/INDU | SUB-SLAB GAS | FULL LIST OF VOCs (reference TO15A) | BTEX/Aromatic/Aliphatic Hydrocarbon Fractions | BTEX/F1 (C6-C10) and F2 (C10-C16) | Selected VOC's - please specify | Other | | | | CANISTERS NOT USED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| December 5th Summa | SX1751 | FX172 | 6-Dec | -28 | 0 | | X | | | X | | | | | | | | |
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**TAT Requirement**

| | |
|---|---|
| STD 10 Business day | ☑ |
| Rush 5 Business day * | ☐ |
| Rush 2 Business day * | ☐ |
| Rush Other * | ☐ |

* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2303.2023D.100
Name: Kinross Project
PO #: C026300307
Bureau Veritas Quote #:
Bureau Veritas Contact: Cristina Bacchus
Task Order/Line Item

**REPORTING REQUIREMENTS**

EDD ☑
Regulations ON 153 ☑
ON 419 ☑
BC CSR ☑
Other

**Notes**

*1) please indicate on chain of custody if your samples are soil vapour or ambient air*
*2) please list all canisters on the chain of custody even if unused*

**PROJECT SPECIFIC COMMENTS**

Please send results to the following:
jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; ryan.fletcher@wsp.com; airgroup@woodplc.com; emily.meek@kinross.com; curtis.bloemberg@kinross.com; aaron.peloquin@kinross.com

**PLEASE RETURN ALL UNUSED EQUIPMENT**

Client Signature: Jacob McFee
Date/Time: December 6th 15:00

Received by: Pawandeep Kaur Kullar
Date/Time: 2023/12/11 8:57

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms*

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: NA

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/12/22**
Report #: R7966609
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3BB980**
**Received: 2023/12/11, 08:57**

Sample Matrix: Air
# Samples Received: 1

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | 1 | N/A | 2023/12/14 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air by GC/MS/SIM (1) | 1 | N/A | 2023/12/14 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air (TO-15) (2) | 1 | N/A | 2023/12/14 | BRL SOP-00304 | EPA TO-15 m |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCCFP, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

(2) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: NA

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/12/22**
Report #: R7966609
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3BB980**

**Received: 2023/12/11, 08:57**

analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key

Cristina (Maria) Bacchus
Project Manager
22 Dec 2023 11:46:19

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3BB980
Report Date: 2023/12/22

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF AIR

| **Bureau Veritas ID** | | XVU128 | |
|---|---|---|---|
| **Sampling Date** | | 2023/12/06 | |
| **COC Number** | | NA | |
| | **UNITS** | **DECEMBER 5TH SUMMA/SX1751** | **QC Batch** |
| **Volatile Organics** | | | |
| Pressure on Receipt | psig | 0.30 | 9112353 |
| QC Batch = Quality Control Batch | | | |



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## VOLATILE ORGANICS BY GC/MS (AIR)

| Bureau Veritas ID | | XVU128 | | | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2023/12/06 | | | | |
| COC Number | | NA | | | | |
| | UNITS | DECEMBER 5TH SUMMA/SX1751 | RDL | ug/m3 | DL (ug/m3) | QC Batch |
| **Volatile Organics** | | | | | | |
| 2-Propanone | ppbv | 0.88 | 0.10 | 2.10 | 0.238 | 9112349 |
| Dichlorodifluoromethane (FREON 12) | ppbv | 0.48 | 0.20 | 2.36 | 0.989 | 9112347 |
| 1,2-Dichlorotetrafluoroethane | ppbv | <0.17 | 0.17 | <1.19 | 1.19 | 9112347 |
| Chloromethane | ppbv | 0.41 | 0.30 | 0.837 | 0.620 | 9112347 |
| Vinyl Chloride | ppbv | <0.020 | 0.020 | <0.0511 | 0.0511 | 9112349 |
| Chloroethane | ppbv | <0.30 | 0.30 | <0.792 | 0.792 | 9112347 |
| 1,3-Butadiene | ppbv | <0.50 | 0.50 | <1.11 | 1.11 | 9112347 |
| Trichlorofluoromethane (FREON 11) | ppbv | 0.25 | 0.20 | 1.43 | 1.12 | 9112347 |
| Ethanol (ethyl alcohol) | ppbv | <1.0 | 1.0 | <1.88 | 1.88 | 9112347 |
| Trichlorotrifluoroethane | ppbv | <0.15 | 0.15 | <1.15 | 1.15 | 9112347 |
| 2-propanol | ppbv | <1.0 | 1.0 | <2.46 | 2.46 | 9112347 |
| Methyl Ethyl Ketone (2-Butanone) | ppbv | 0.10 | 0.10 | 0.307 | 0.295 | 9112349 |
| Methyl Isobutyl Ketone | ppbv | <0.10 | 0.10 | <0.410 | 0.410 | 9112349 |
| Methyl Butyl Ketone (2-Hexanone) | ppbv | <1.0 | 1.0 | <4.10 | 4.10 | 9112347 |
| Methyl t-butyl ether (MTBE) | ppbv | <0.10 | 0.10 | <0.361 | 0.361 | 9112349 |
| Ethyl Acetate | ppbv | <1.0 | 1.0 | <3.60 | 3.60 | 9112347 |
| 1,1-Dichloroethylene | ppbv | <0.050 | 0.050 | <0.198 | 0.198 | 9112349 |
| cis-1,2-Dichloroethylene | ppbv | <0.050 | 0.050 | <0.198 | 0.198 | 9112349 |
| trans-1,2-Dichloroethylene | ppbv | <0.10 | 0.10 | <0.396 | 0.396 | 9112349 |
| Methylene Chloride(Dichloromethane) | ppbv | 0.122 | 0.050 | 0.425 | 0.174 | 9112349 |
| Chloroform | ppbv | <0.040 | 0.040 | <0.195 | 0.195 | 9112349 |
| Carbon Tetrachloride | ppbv | 0.106 | 0.050 | 0.669 | 0.315 | 9112349 |
| 1,1-Dichloroethane | ppbv | <0.050 | 0.050 | <0.202 | 0.202 | 9112349 |
| 1,2-Dichloroethane | ppbv | 0.022 | 0.010 | 0.0890 | 0.0405 | 9112349 |
| Ethylene Dibromide | ppbv | <0.010 | 0.010 | <0.0768 | 0.0768 | 9112349 |
| 1,1,1-Trichloroethane | ppbv | <0.050 | 0.050 | <0.273 | 0.273 | 9112349 |
| 1,1,2-Trichloroethane | ppbv | <0.012 | 0.012 | <0.0655 | 0.0655 | 9112349 |
| 1,1,2,2-Tetrachloroethane | ppbv | <0.0027 | 0.0027 | <0.0185 | 0.0185 | 9112349 |
| cis-1,3-Dichloropropene | ppbv | <0.050 | 0.050 | <0.227 | 0.227 | 9112349 |
| trans-1,3-Dichloropropene | ppbv | <0.050 | 0.050 | <0.227 | 0.227 | 9112349 |
| 1,2-Dichloropropane | ppbv | <0.050 | 0.050 | <0.231 | 0.231 | 9112349 |
| Bromomethane | ppbv | <0.050 | 0.050 | <0.194 | 0.194 | 9112349 |
| Bromoform | ppbv | <0.10 | 0.10 | <1.03 | 1.03 | 9112349 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## VOLATILE ORGANICS BY GC/MS (AIR)

| Bureau Veritas ID | | XVU128 | | | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2023/12/06 | | | | |
| COC Number | | NA | | | | |
| | UNITS | DECEMBER 5TH SUMMA/SX1751 | RDL | ug/m3 | DL (ug/m3) | QC Batch |
| Bromodichloromethane | ppbv | <0.20 | 0.20 | <1.34 | 1.34 | 9112347 |
| Dibromochloromethane | ppbv | <0.20 | 0.20 | <1.70 | 1.70 | 9112347 |
| Trichloroethylene | ppbv | <0.050 | 0.050 | <0.269 | 0.269 | 9112349 |
| Tetrachloroethylene | ppbv | <0.050 | 0.050 | <0.339 | 0.339 | 9112349 |
| Benzene | ppbv | 0.107 | 0.050 | 0.343 | 0.160 | 9112349 |
| Toluene | ppbv | <0.050 | 0.050 | <0.188 | 0.188 | 9112349 |
| Ethylbenzene | ppbv | <0.050 | 0.050 | <0.217 | 0.217 | 9112349 |
| p+m-Xylene | ppbv | <0.10 | 0.10 | <0.434 | 0.434 | 9112349 |
| o-Xylene | ppbv | <0.050 | 0.050 | <0.217 | 0.217 | 9112349 |
| Styrene | ppbv | <0.050 | 0.050 | <0.213 | 0.213 | 9112349 |
| 4-ethyltoluene | ppbv | <0.50 | 0.50 | <2.46 | 2.46 | 9112347 |
| 1,3,5-Trimethylbenzene | ppbv | <0.50 | 0.50 | <2.45 | 2.45 | 9112347 |
| 1,2,4-Trimethylbenzene | ppbv | <0.50 | 0.50 | <2.45 | 2.45 | 9112347 |
| Chlorobenzene | ppbv | <0.050 | 0.050 | <0.230 | 0.230 | 9112349 |
| Benzyl chloride | ppbv | <0.50 | 0.50 | <2.59 | 2.59 | 9112347 |
| 1,3-Dichlorobenzene | ppbv | <0.40 | 0.40 | <2.40 | 2.40 | 9112347 |
| 1,4-Dichlorobenzene | ppbv | <0.050 | 0.050 | <0.301 | 0.301 | 9112349 |
| 1,2-Dichlorobenzene | ppbv | <0.050 | 0.050 | <0.301 | 0.301 | 9112349 |
| 1,2,4-Trichlorobenzene | ppbv | <0.10 | 0.10 | <0.742 | 0.742 | 9112349 |
| Hexachlorobutadiene | ppbv | <0.0047 | 0.0047 | <0.0501 | 0.0501 | 9112349 |
| Hexane | ppbv | <0.10 | 0.10 | <0.352 | 0.352 | 9112349 |
| Heptane | ppbv | <0.30 | 0.30 | <1.23 | 1.23 | 9112347 |
| Cyclohexane | ppbv | <0.20 | 0.20 | <0.688 | 0.688 | 9112347 |
| Tetrahydrofuran | ppbv | <0.40 | 0.40 | <1.18 | 1.18 | 9112347 |
| 1,4-Dioxane | ppbv | <1.0 | 1.0 | <3.60 | 3.60 | 9112347 |
| Naphthalene | ppbv | <0.10 | 0.10 | <0.524 | 0.524 | 9112349 |
| Total Xylenes | ppbv | <0.15 | 0.15 | <0.651 | 0.651 | 9112349 |
| 1,1,1,2-Tetrachloroethane | ppbv | <0.021 | 0.021 | <0.144 | 0.144 | 9112349 |
| Vinyl Bromide | ppbv | <0.20 | 0.20 | <0.875 | 0.875 | 9112347 |
| Propene | ppbv | <0.70 | 0.70 | <1.20 | 1.20 | 9112347 |
| 2,2,4-Trimethylpentane | ppbv | <0.20 | 0.20 | <0.934 | 0.934 | 9112347 |
| Carbon Disulfide | ppbv | <0.50 | 0.50 | <1.56 | 1.56 | 9112347 |
| Vinyl Acetate | ppbv | <0.20 | 0.20 | <0.704 | 0.704 | 9112347 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## VOLATILE ORGANICS BY GC/MS (AIR)

| Bureau Veritas ID | | XVU128 | | | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2023/12/06 | | | | |
| COC Number | | NA | | | | |
| | UNITS | DECEMBER 5TH SUMMA/SX1751 | RDL | ug/m3 | DL (ug/m3) | QC Batch |
| **Surrogate Recovery (%)** | | | | | | |
| Bromochloromethane | % | 106 | | N/A | N/A | 9112349 |
| D5-Chlorobenzene | % | 87 | | N/A | N/A | 9112349 |
| Difluorobenzene | % | 84 | | N/A | N/A | 9112349 |
| Bromochloromethane | % | 106 | | N/A | N/A | 9112347 |
| D5-Chlorobenzene | % | 87 | | N/A | N/A | 9112347 |
| Difluorobenzene | % | 84 | | N/A | N/A | 9112347 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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## GENERAL COMMENTS

Increased DL for propene due to interference from propane.

**Results relate only to the items tested.**



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## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9112347 | ANE | Spiked Blank | Bromochloromethane | 2023/12/14 | | 113 | % | 60 - 140 |
| | | | D5-Chlorobenzene | 2023/12/14 | | 117 | % | 60 - 140 |
| | | | Difluorobenzene | 2023/12/14 | | 120 | % | 60 - 140 |
| | | | Dichlorodifluoromethane (FREON 12) | 2023/12/14 | | 86 | % | 70 - 130 |
| | | | 1,2-Dichlorotetrafluoroethane | 2023/12/14 | | 87 | % | 70 - 130 |
| | | | Chloromethane | 2023/12/14 | | 89 | % | 70 - 130 |
| | | | Chloroethane | 2023/12/14 | | 89 | % | 70 - 130 |
| | | | 1,3-Butadiene | 2023/12/14 | | 98 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2023/12/14 | | 87 | % | 70 - 130 |
| | | | Ethanol (ethyl alcohol) | 2023/12/14 | | 92 | % | 70 - 130 |
| | | | Trichlorotrifluoroethane | 2023/12/14 | | 89 | % | 70 - 130 |
| | | | 2-propanol | 2023/12/14 | | 91 | % | 70 - 130 |
| | | | Methyl Butyl Ketone (2-Hexanone) | 2023/12/14 | | 96 | % | 70 - 130 |
| | | | Ethyl Acetate | 2023/12/14 | | 98 | % | 70 - 130 |
| | | | Bromodichloromethane | 2023/12/14 | | 83 | % | 70 - 130 |
| | | | Dibromochloromethane | 2023/12/14 | | 91 | % | 70 - 130 |
| | | | 4-ethyltoluene | 2023/12/14 | | 107 | % | 70 - 130 |
| | | | 1,3,5-Trimethylbenzene | 2023/12/14 | | 110 | % | 70 - 130 |
| | | | 1,2,4-Trimethylbenzene | 2023/12/14 | | 113 | % | 70 - 130 |
| | | | Benzyl chloride | 2023/12/14 | | 107 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2023/12/14 | | 102 | % | 70 - 130 |
| | | | Heptane | 2023/12/14 | | 103 | % | 70 - 130 |
| | | | Cyclohexane | 2023/12/14 | | 103 | % | 70 - 130 |
| | | | Tetrahydrofuran | 2023/12/14 | | 108 | % | 70 - 130 |
| | | | 1,4-Dioxane | 2023/12/14 | | 99 | % | 70 - 130 |
| | | | Vinyl Bromide | 2023/12/14 | | 81 | % | 70 - 130 |
| | | | Propene | 2023/12/14 | | 102 | % | 70 - 130 |
| | | | 2,2,4-Trimethylpentane | 2023/12/14 | | 98 | % | 70 - 130 |
| | | | Carbon Disulfide | 2023/12/14 | | 92 | % | 70 - 130 |
| | | | Vinyl Acetate | 2023/12/14 | | 112 | % | 70 - 130 |
| 9112347 | ANE | Method Blank | Bromochloromethane | 2023/12/14 | | 114 | % | 60 - 140 |
| | | | D5-Chlorobenzene | 2023/12/14 | | 87 | % | 60 - 140 |
| | | | Difluorobenzene | 2023/12/14 | | 96 | % | 60 - 140 |
| | | | Dichlorodifluoromethane (FREON 12) | 2023/12/14 | <0.20 | | ppbv | |
| | | | 1,2-Dichlorotetrafluoroethane | 2023/12/14 | <0.17 | | ppbv | |
| | | | Chloromethane | 2023/12/14 | <0.30 | | ppbv | |
| | | | Chloroethane | 2023/12/14 | <0.30 | | ppbv | |
| | | | 1,3-Butadiene | 2023/12/14 | <0.50 | | ppbv | |
| | | | Trichlorofluoromethane (FREON 11) | 2023/12/14 | <0.20 | | ppbv | |
| | | | Ethanol (ethyl alcohol) | 2023/12/14 | <1.0 | | ppbv | |
| | | | Trichlorotrifluoroethane | 2023/12/14 | <0.15 | | ppbv | |
| | | | 2-propanol | 2023/12/14 | <1.0 | | ppbv | |
| | | | Methyl Butyl Ketone (2-Hexanone) | 2023/12/14 | <1.0 | | ppbv | |
| | | | Ethyl Acetate | 2023/12/14 | <1.0 | | ppbv | |
| | | | Bromodichloromethane | 2023/12/14 | <0.20 | | ppbv | |
| | | | Dibromochloromethane | 2023/12/14 | <0.20 | | ppbv | |
| | | | 4-ethyltoluene | 2023/12/14 | <0.50 | | ppbv | |
| | | | 1,3,5-Trimethylbenzene | 2023/12/14 | <0.50 | | ppbv | |
| | | | 1,2,4-Trimethylbenzene | 2023/12/14 | <0.50 | | ppbv | |
| | | | Benzyl chloride | 2023/12/14 | <0.50 | | ppbv | |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | 1,3-Dichlorobenzene | 2023/12/14 | <0.40 | | ppbv | |
| | | | Heptane | 2023/12/14 | <0.30 | | ppbv | |
| | | | Cyclohexane | 2023/12/14 | <0.20 | | ppbv | |
| | | | Tetrahydrofuran | 2023/12/14 | <0.40 | | ppbv | |
| | | | 1,4-Dioxane | 2023/12/14 | <1.0 | | ppbv | |
| | | | Vinyl Bromide | 2023/12/14 | <0.20 | | ppbv | |
| | | | Propene | 2023/12/14 | <0.50 | | ppbv | |
| | | | 2,2,4-Trimethylpentane | 2023/12/14 | <0.20 | | ppbv | |
| | | | Carbon Disulfide | 2023/12/14 | <0.50 | | ppbv | |
| | | | Vinyl Acetate | 2023/12/14 | <0.20 | | ppbv | |
| 9112347 | ANE | RPD | Dichlorodifluoromethane (FREON 12) | 2023/12/14 | 2.3 | | % | 25 |
| | | | 1,2-Dichlorotetrafluoroethane | 2023/12/14 | NC | | % | 25 |
| | | | Chloromethane | 2023/12/14 | 0.014 | | % | 25 |
| | | | Chloroethane | 2023/12/14 | NC | | % | 25 |
| | | | 1,3-Butadiene | 2023/12/14 | NC | | % | 25 |
| | | | Trichlorofluoromethane (FREON 11) | 2023/12/14 | 5.3 | | % | 25 |
| | | | Ethanol (ethyl alcohol) | 2023/12/14 | 7.8 | | % | 25 |
| | | | Trichlorotrifluoroethane | 2023/12/14 | NC | | % | 25 |
| | | | 2-propanol | 2023/12/14 | NC | | % | 25 |
| | | | Methyl Butyl Ketone (2-Hexanone) | 2023/12/14 | NC | | % | 25 |
| | | | Ethyl Acetate | 2023/12/14 | NC | | % | 25 |
| | | | Bromodichloromethane | 2023/12/14 | NC | | % | 25 |
| | | | Dibromochloromethane | 2023/12/14 | NC | | % | 25 |
| | | | 4-ethyltoluene | 2023/12/14 | NC | | % | 25 |
| | | | 1,3,5-Trimethylbenzene | 2023/12/14 | NC | | % | 25 |
| | | | 1,2,4-Trimethylbenzene | 2023/12/14 | NC | | % | 25 |
| | | | Benzyl chloride | 2023/12/14 | NC | | % | 25 |
| | | | 1,3-Dichlorobenzene | 2023/12/14 | NC | | % | 25 |
| | | | Heptane | 2023/12/14 | NC | | % | 25 |
| | | | Cyclohexane | 2023/12/14 | NC | | % | 25 |
| | | | Tetrahydrofuran | 2023/12/14 | NC | | % | 25 |
| | | | 1,4-Dioxane | 2023/12/14 | NC | | % | 25 |
| | | | Vinyl Bromide | 2023/12/14 | NC | | % | 25 |
| | | | Propene | 2023/12/14 | NC | | % | 25 |
| | | | 2,2,4-Trimethylpentane | 2023/12/14 | NC | | % | 25 |
| | | | Carbon Disulfide | 2023/12/14 | NC | | % | 25 |
| | | | Vinyl Acetate | 2023/12/14 | NC | | % | 25 |
| 9112349 | ANE | Spiked Blank | 2-Propanone | 2023/12/14 | | 82 | % | 70 - 130 |
| | | | Bromochloromethane | 2023/12/14 | | 113 | % | 60 - 140 |
| | | | D5-Chlorobenzene | 2023/12/14 | | 117 | % | 60 - 140 |
| | | | Difluorobenzene | 2023/12/14 | | 120 | % | 60 - 140 |
| | | | Vinyl Chloride | 2023/12/14 | | 90 | % | 70 - 130 |
| | | | Methyl Ethyl Ketone (2-Butanone) | 2023/12/14 | | 100 | % | 70 - 130 |
| | | | Methyl Isobutyl Ketone | 2023/12/14 | | 95 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2023/12/14 | | 88 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2023/12/14 | | 97 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2023/12/14 | | 96 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2023/12/14 | | 96 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2023/12/14 | | 92 | % | 70 - 130 |
| | | | Chloroform | 2023/12/14 | | 92 | % | 70 - 130 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Carbon Tetrachloride | 2023/12/14 | | 87 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2023/12/14 | | 89 | % | 70 - 130 |
| | | | 1,2-Dichloroethane | 2023/12/14 | | 93 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2023/12/14 | | 95 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2023/12/14 | | 88 | % | 70 - 130 |
| | | | 1,1,2-Trichloroethane | 2023/12/14 | | 92 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2023/12/14 | | 89 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2023/12/14 | | 98 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2023/12/14 | | 103 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2023/12/14 | | 90 | % | 70 - 130 |
| | | | Bromomethane | 2023/12/14 | | 83 | % | 70 - 130 |
| | | | Bromoform | 2023/12/14 | | 93 | % | 70 - 130 |
| | | | Trichloroethylene | 2023/12/14 | | 97 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2023/12/14 | | 103 | % | 70 - 130 |
| | | | Benzene | 2023/12/14 | | 98 | % | 70 - 130 |
| | | | Toluene | 2023/12/14 | | 101 | % | 70 - 130 |
| | | | Ethylbenzene | 2023/12/14 | | 102 | % | 70 - 130 |
| | | | p+m-Xylene | 2023/12/14 | | 105 | % | 70 - 130 |
| | | | o-Xylene | 2023/12/14 | | 98 | % | 70 - 130 |
| | | | Styrene | 2023/12/14 | | 112 | % | 70 - 130 |
| | | | Chlorobenzene | 2023/12/14 | | 96 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2023/12/14 | | 104 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2023/12/14 | | 100 | % | 70 - 130 |
| | | | 1,2,4-Trichlorobenzene | 2023/12/14 | | 111 | % | 70 - 130 |
| | | | Hexachlorobutadiene | 2023/12/14 | | 99 | % | 70 - 130 |
| | | | Hexane | 2023/12/14 | | 101 | % | 70 - 130 |
| | | | Naphthalene | 2023/12/14 | | 125 | % | 70 - 130 |
| | | | Total Xylenes | 2023/12/14 | | 103 | % | 70 - 130 |
| | | | 1,1,1,2-Tetrachloroethane | 2023/12/14 | | 89 | % | 70 - 130 |
| 9112349 | ANE | Method Blank | 2-Propanone | 2023/12/14 | <0.10 | | ppbv | |
| | | | Bromochloromethane | 2023/12/14 | | 114 | % | 60 - 140 |
| | | | D5-Chlorobenzene | 2023/12/14 | | 87 | % | 60 - 140 |
| | | | Difluorobenzene | 2023/12/14 | | 96 | % | 60 - 140 |
| | | | Vinyl Chloride | 2023/12/14 | <0.020 | | ppbv | |
| | | | Methyl Ethyl Ketone (2-Butanone) | 2023/12/14 | <0.10 | | ppbv | |
| | | | Methyl Isobutyl Ketone | 2023/12/14 | <0.10 | | ppbv | |
| | | | Methyl t-butyl ether (MTBE) | 2023/12/14 | <0.10 | | ppbv | |
| | | | 1,1-Dichloroethylene | 2023/12/14 | <0.050 | | ppbv | |
| | | | cis-1,2-Dichloroethylene | 2023/12/14 | <0.050 | | ppbv | |
| | | | trans-1,2-Dichloroethylene | 2023/12/14 | <0.10 | | ppbv | |
| | | | Methylene Chloride(Dichloromethane) | 2023/12/14 | <0.050 | | ppbv | |
| | | | Chloroform | 2023/12/14 | <0.040 | | ppbv | |
| | | | Carbon Tetrachloride | 2023/12/14 | <0.050 | | ppbv | |
| | | | 1,1-Dichloroethane | 2023/12/14 | <0.050 | | ppbv | |
| | | | 1,2-Dichloroethane | 2023/12/14 | <0.010 | | ppbv | |
| | | | Ethylene Dibromide | 2023/12/14 | <0.010 | | ppbv | |
| | | | 1,1,1-Trichloroethane | 2023/12/14 | <0.050 | | ppbv | |
| | | | 1,1,2-Trichloroethane | 2023/12/14 | <0.012 | | ppbv | |
| | | | 1,1,2,2-Tetrachloroethane | 2023/12/14 | <0.0027 | | ppbv | |
| | | | cis-1,3-Dichloropropene | 2023/12/14 | <0.050 | | ppbv | |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | trans-1,3-Dichloropropene | 2023/12/14 | <0.050 | | ppbv | |
| | | | 1,2-Dichloropropane | 2023/12/14 | <0.050 | | ppbv | |
| | | | Bromomethane | 2023/12/14 | <0.050 | | ppbv | |
| | | | Bromoform | 2023/12/14 | <0.10 | | ppbv | |
| | | | Trichloroethylene | 2023/12/14 | <0.050 | | ppbv | |
| | | | Tetrachloroethylene | 2023/12/14 | <0.050 | | ppbv | |
| | | | Benzene | 2023/12/14 | <0.050 | | ppbv | |
| | | | Toluene | 2023/12/14 | <0.050 | | ppbv | |
| | | | Ethylbenzene | 2023/12/14 | <0.050 | | ppbv | |
| | | | p+m-Xylene | 2023/12/14 | <0.10 | | ppbv | |
| | | | o-Xylene | 2023/12/14 | <0.050 | | ppbv | |
| | | | Styrene | 2023/12/14 | <0.050 | | ppbv | |
| | | | Chlorobenzene | 2023/12/14 | <0.050 | | ppbv | |
| | | | 1,4-Dichlorobenzene | 2023/12/14 | <0.050 | | ppbv | |
| | | | 1,2-Dichlorobenzene | 2023/12/14 | <0.050 | | ppbv | |
| | | | 1,2,4-Trichlorobenzene | 2023/12/14 | <0.10 | | ppbv | |
| | | | Hexachlorobutadiene | 2023/12/14 | <0.0047 | | ppbv | |
| | | | Hexane | 2023/12/14 | <0.10 | | ppbv | |
| | | | Naphthalene | 2023/12/14 | <0.10 | | ppbv | |
| | | | Total Xylenes | 2023/12/14 | <0.15 | | ppbv | |
| | | | 1,1,1,2-Tetrachloroethane | 2023/12/14 | <0.021 | | ppbv | |
| 9112349 | ANE | RPD | 2-Propanone | 2023/12/14 | NC | | % | N/A |
| | | | Vinyl Chloride | 2023/12/14 | NC | | % | 25 |
| | | | Methyl Ethyl Ketone (2-Butanone) | 2023/12/14 | 3.2 | | % | 25 |
| | | | Methyl Isobutyl Ketone | 2023/12/14 | 3.8 | | % | 25 |
| | | | Methyl t-butyl ether (MTBE) | 2023/12/14 | NC | | % | 25 |
| | | | 1,1-Dichloroethylene | 2023/12/14 | NC | | % | 25 |
| | | | cis-1,2-Dichloroethylene | 2023/12/14 | NC | | % | 25 |
| | | | trans-1,2-Dichloroethylene | 2023/12/14 | NC | | % | 25 |
| | | | Methylene Chloride(Dichloromethane) | 2023/12/14 | 3.4 | | % | 25 |
| | | | Chloroform | 2023/12/14 | NC | | % | 25 |
| | | | Carbon Tetrachloride | 2023/12/14 | 1.1 | | % | 25 |
| | | | 1,1-Dichloroethane | 2023/12/14 | NC | | % | 25 |
| | | | 1,2-Dichloroethane | 2023/12/14 | 2.2 | | % | 25 |
| | | | Ethylene Dibromide | 2023/12/14 | NC | | % | 25 |
| | | | 1,1,1-Trichloroethane | 2023/12/14 | NC | | % | 25 |
| | | | 1,1,2-Trichloroethane | 2023/12/14 | NC | | % | 25 |
| | | | 1,1,2,2-Tetrachloroethane | 2023/12/14 | NC | | % | 25 |
| | | | cis-1,3-Dichloropropene | 2023/12/14 | NC | | % | 25 |
| | | | trans-1,3-Dichloropropene | 2023/12/14 | NC | | % | 25 |
| | | | 1,2-Dichloropropane | 2023/12/14 | NC | | % | 25 |
| | | | Bromomethane | 2023/12/14 | NC | | % | 25 |
| | | | Bromoform | 2023/12/14 | NC | | % | 25 |
| | | | Trichloroethylene | 2023/12/14 | NC | | % | 25 |
| | | | Tetrachloroethylene | 2023/12/14 | NC | | % | 25 |
| | | | Benzene | 2023/12/14 | 0.14 | | % | 25 |
| | | | Toluene | 2023/12/14 | 0.94 | | % | 25 |
| | | | Ethylbenzene | 2023/12/14 | 0.44 | | % | 25 |
| | | | p+m-Xylene | 2023/12/14 | 1.8 | | % | 25 |
| | | | o-Xylene | 2023/12/14 | 0.28 | | % | 25 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Styrene | 2023/12/14 | NC | | % | 25 |
| | | | Chlorobenzene | 2023/12/14 | NC | | % | 25 |
| | | | 1,4-Dichlorobenzene | 2023/12/14 | NC | | % | 25 |
| | | | 1,2-Dichlorobenzene | 2023/12/14 | NC | | % | 25 |
| | | | 1,2,4-Trichlorobenzene | 2023/12/14 | NC | | % | 25 |
| | | | Hexachlorobutadiene | 2023/12/14 | NC | | % | 25 |
| | | | Hexane | 2023/12/14 | 0.94 | | % | 25 |
| | | | Naphthalene | 2023/12/14 | NC | | % | 25 |
| | | | Total Xylenes | 2023/12/14 | 1.5 | | % | 25 |
| | | | 1,1,1,2-Tetrachloroethane | 2023/12/14 | NC | | % | 25 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



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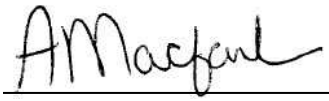
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3BB980
Report Date: 2023/12/22

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anke Macfarlane, Laboratory Manager, VOC

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: C026300307
Your Project #: KINROSS PROECT
Your C.O.C. #: NA

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/03/23**
Report #: R7557339
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C368124**
**Received: 2023/03/10, 09:00**

Sample Matrix: Air
# Samples Received: 2

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | 2 | N/A | 2023/03/15 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air by GC/MS/SIM (1) | 2 | N/A | 2023/03/15 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air (TO-15) (2) | 2 | N/A | 2023/03/15 | BRL SOP-00304 | EPA TO-15 m |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Your P.O. #: C026300307
Your Project #: KINROSS PROECT
Your C.O.C. #: NA

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/03/23**
Report #: R7557339
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

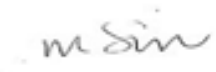
**BUREAU VERITAS JOB #: C368124**

**Received: 2023/03/10, 09:00**

(2) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key



Marinela Sim
Project Manager
24 Mar 2023 17:00:31

Please direct all questions regarding this Certificate of Analysis to:
Marinela Sim, Project Manager
Email: Marinela.Sim@bureauveritas.com
Phone# (905)817-5828

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Bureau Veritas Job #: C368124
Report Date: 2023/03/23

WSP E & I Canada Limited
Client Project #: KINROSS PROECT
Your P.O. #: C026300307
Sampler Initials: JM

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| Bureau Veritas ID | | VGF820 | VGF820 | VGF821 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2023/02/10 | 2023/02/10 | 2023/03/01 | | |
| COC Number | | NA | NA | NA | | |
| | UNITS | SUMA1048 | SUMA1048 Lab-Dup | SUMA0053 | RDL | QC Batch |
| **Volatile Organics** | | | | | | |
| Pressure on Receipt | psig | (-3.1) | N/A | 0.50 | N/A | 8553230 |
| 2-Propanone | ppbv | 0.76 | 0.77 | 1.18 | 0.10 | 8553218 |
| Dichlorodifluoromethane (FREON 12) | ppbv | 0.52 | 0.50 | 0.57 | 0.20 | 8553217 |
| 1,2-Dichlorotetrafluoroethane | ppbv | <0.17 | <0.17 | <0.17 | 0.17 | 8553217 |
| Chloromethane | ppbv | 0.45 | 0.45 | 0.43 | 0.30 | 8553217 |
| Vinyl Chloride | ppbv | <0.020 | <0.020 | <0.020 | 0.020 | 8553218 |
| Chloroethane | ppbv | <0.30 | <0.30 | <0.30 | 0.30 | 8553217 |
| 1,3-Butadiene | ppbv | <0.50 | <0.50 | <0.50 | 0.50 | 8553217 |
| Trichlorofluoromethane (FREON 11) | ppbv | 0.32 | 0.32 | 0.31 | 0.20 | 8553217 |
| Ethanol (ethyl alcohol) | ppbv | <1.0 | <1.0 | <1.0 | 1.0 | 8553217 |
| Trichlorotrifluoroethane | ppbv | <0.15 | <0.15 | <0.15 | 0.15 | 8553217 |
| 2-propanol | ppbv | <1.0 | <1.0 | <1.0 | 1.0 | 8553217 |
| Methyl Ethyl Ketone (2-Butanone) | ppbv | 0.16 | 0.16 | 0.17 | 0.10 | 8553218 |
| Methyl Isobutyl Ketone | ppbv | <0.10 | <0.10 | <0.10 | 0.10 | 8553218 |
| Methyl Butyl Ketone (2-Hexanone) | ppbv | <1.0 | <1.0 | <1.0 | 1.0 | 8553217 |
| Methyl t-butyl ether (MTBE) | ppbv | <0.10 | <0.10 | <0.10 | 0.10 | 8553218 |
| Ethyl Acetate | ppbv | <1.0 | <1.0 | <1.0 | 1.0 | 8553217 |
| 1,1-Dichloroethylene | ppbv | <0.050 | <0.050 | <0.050 | 0.050 | 8553218 |
| cis-1,2-Dichloroethylene | ppbv | <0.050 | <0.050 | <0.050 | 0.050 | 8553218 |
| trans-1,2-Dichloroethylene | ppbv | <0.10 | <0.10 | <0.10 | 0.10 | 8553218 |
| Methylene Chloride(Dichloromethane | ppbv | 0.214 | 0.199 | 0.124 | 0.050 | 8553218 |
| Chloroform | ppbv | <0.040 | <0.040 | <0.040 | 0.040 | 8553218 |
| Carbon Tetrachloride | ppbv | 0.140 | 0.148 | 0.140 | 0.050 | 8553218 |
| 1,1-Dichloroethane | ppbv | <0.050 | <0.050 | <0.050 | 0.050 | 8553218 |
| 1,2-Dichloroethane | ppbv | 0.024 | 0.025 | 0.024 | 0.010 | 8553218 |
| Ethylene Dibromide | ppbv | <0.010 | <0.010 | <0.010 | 0.010 | 8553218 |
| 1,1,1-Trichloroethane | ppbv | <0.050 | <0.050 | <0.050 | 0.050 | 8553218 |
| 1,1,2-Trichloroethane | ppbv | <0.012 | <0.012 | <0.012 | 0.012 | 8553218 |
| 1,1,2,2-Tetrachloroethane | ppbv | <0.0027 | <0.0027 | <0.0027 | 0.0027 | 8553218 |
| cis-1,3-Dichloropropene | ppbv | <0.050 | <0.050 | <0.050 | 0.050 | 8553218 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| Bureau Veritas ID | | VGF820 | VGF820 | VGF821 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2023/02/10 | 2023/02/10 | 2023/03/01 | | |
| COC Number | | NA | NA | NA | | |
| | UNITS | SUMA1048 | SUMA1048 Lab-Dup | SUMA0053 | RDL | QC Batch |
| trans-1,3-Dichloropropene | ppbv | <0.050 | <0.050 | <0.050 | 0.050 | 8553218 |
| 1,2-Dichloropropane | ppbv | <0.050 | <0.050 | <0.050 | 0.050 | 8553218 |
| Bromomethane | ppbv | <0.050 | <0.050 | <0.050 | 0.050 | 8553218 |
| Bromoform | ppbv | <0.10 | <0.10 | <0.10 | 0.10 | 8553218 |
| Bromodichloromethane | ppbv | <0.20 | <0.20 | <0.20 | 0.20 | 8553217 |
| Dibromochloromethane | ppbv | <0.20 | <0.20 | <0.20 | 0.20 | 8553217 |
| Trichloroethylene | ppbv | <0.050 | <0.050 | <0.050 | 0.050 | 8553218 |
| Tetrachloroethylene | ppbv | <0.050 | <0.050 | <0.050 | 0.050 | 8553218 |
| Benzene | ppbv | 0.133 | 0.132 | 0.122 | 0.050 | 8553218 |
| Toluene | ppbv | <0.050 | <0.050 | <0.050 | 0.050 | 8553218 |
| Ethylbenzene | ppbv | <0.050 | <0.050 | <0.050 | 0.050 | 8553218 |
| p+m-Xylene | ppbv | <0.10 | <0.10 | <0.10 | 0.10 | 8553218 |
| o-Xylene | ppbv | <0.050 | <0.050 | <0.050 | 0.050 | 8553218 |
| Styrene | ppbv | <0.050 | <0.050 | <0.050 | 0.050 | 8553218 |
| 4-ethyltoluene | ppbv | <0.50 | <0.50 | <0.50 | 0.50 | 8553217 |
| 1,3,5-Trimethylbenzene | ppbv | <0.50 | <0.50 | <0.50 | 0.50 | 8553217 |
| 1,2,4-Trimethylbenzene | ppbv | <0.50 | <0.50 | <0.50 | 0.50 | 8553217 |
| Chlorobenzene | ppbv | <0.050 | <0.050 | <0.050 | 0.050 | 8553218 |
| Benzyl chloride | ppbv | <0.50 | <0.50 | <0.50 | 0.50 | 8553217 |
| 1,3-Dichlorobenzene | ppbv | <0.40 | <0.40 | <0.40 | 0.40 | 8553217 |
| 1,4-Dichlorobenzene | ppbv | <0.050 | <0.050 | <0.050 | 0.050 | 8553218 |
| 1,2-Dichlorobenzene | ppbv | <0.050 | <0.050 | <0.050 | 0.050 | 8553218 |
| 1,2,4-Trichlorobenzene | ppbv | <0.10 | <0.10 | <0.10 | 0.10 | 8553218 |
| Hexachlorobutadiene | ppbv | <0.0047 | <0.0047 | <0.0047 | 0.0047 | 8553218 |
| Hexane | ppbv | <0.10 | <0.10 | <0.10 | 0.10 | 8553218 |
| Heptane | ppbv | <0.30 | <0.30 | <0.30 | 0.30 | 8553217 |
| Cyclohexane | ppbv | <0.20 | <0.20 | <0.20 | 0.20 | 8553217 |
| Tetrahydrofuran | ppbv | <0.40 | <0.40 | <0.40 | 0.40 | 8553217 |
| 1,4-Dioxane | ppbv | <1.0 | <1.0 | <1.0 | 1.0 | 8553217 |
| Naphthalene | ppbv | <0.10 | <0.10 | <0.10 | 0.10 | 8553218 |
| Total Xylenes | ppbv | <0.15 | <0.15 | <0.15 | 0.15 | 8553218 |
| 1,1,1,2-Tetrachloroethane | ppbv | <0.021 | <0.021 | <0.021 | 0.021 | 8553218 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| **Bureau Veritas ID** | | VGF820 | VGF820 | VGF821 | | |
|---|---|---|---|---|---|---|
| **Sampling Date** | | 2023/02/10 | 2023/02/10 | 2023/03/01 | | |
| **COC Number** | | NA | NA | NA | | |
| | **UNITS** | **SUMA1048** | **SUMA1048 Lab-Dup** | **SUMA0053** | **RDL** | **QC Batch** |
| Vinyl Bromide | ppbv | <0.20 | <0.20 | <0.20 | 0.20 | 8553217 |
| Propene | ppbv | <0.50 | <0.50 | <0.50 | 0.50 | 8553217 |
| 2,2,4-Trimethylpentane | ppbv | <0.20 | <0.20 | <0.20 | 0.20 | 8553217 |
| Carbon Disulfide | ppbv | <0.50 | <0.50 | <0.50 | 0.50 | 8553217 |
| Vinyl Acetate | ppbv | <0.20 | <0.20 | <0.20 | 0.20 | 8553217 |
| **Surrogate Recovery (%)** | | | | | | |
| Bromochloromethane | % | 98 | 95 | 101 | N/A | 8553218 |
| D5-Chlorobenzene | % | 85 | 81 | 84 | N/A | 8553218 |
| Difluorobenzene | % | 84 | 81 | 85 | N/A | 8553218 |
| Bromochloromethane | % | 98 | 95 | 101 | N/A | 8553217 |
| D5-Chlorobenzene | % | 85 | 81 | 84 | N/A | 8553217 |
| Difluorobenzene | % | 84 | 81 | 85 | N/A | 8553217 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C368124
Report Date: 2023/03/23

WSP E & I Canada Limited
Client Project #: KINROSS PROECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** VGF820
**Sample ID:** SUMA1048
**Matrix:** Air

**Collected:** 2023/02/10
**Shipped:**
**Received:** 2023/03/10

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | PRES | 8553230 | N/A | 2023/03/15 | Pratima Patel |
| Volatile Organics in Air by GC/MS/SIM | GC/MS | 8553218 | N/A | 2023/03/15 | Pratima Patel |
| Volatile Organics in Air (TO-15) | GC/MS | 8553217 | N/A | 2023/03/15 | Pratima Patel |

**Bureau Veritas ID:** VGF820 Dup
**Sample ID:** SUMA1048
**Matrix:** Air

**Collected:** 2023/02/10
**Shipped:**
**Received:** 2023/03/10

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Volatile Organics in Air by GC/MS/SIM | GC/MS | 8553218 | N/A | 2023/03/15 | Pratima Patel |
| Volatile Organics in Air (TO-15) | GC/MS | 8553217 | N/A | 2023/03/15 | Pratima Patel |

**Bureau Veritas ID:** VGF821
**Sample ID:** SUMA0053
**Matrix:** Air

**Collected:** 2023/03/01
**Shipped:**
**Received:** 2023/03/10

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | PRES | 8553230 | N/A | 2023/03/15 | Pratima Patel |
| Volatile Organics in Air by GC/MS/SIM | GC/MS | 8553218 | N/A | 2023/03/15 | Pratima Patel |
| Volatile Organics in Air (TO-15) | GC/MS | 8553217 | N/A | 2023/03/15 | Pratima Patel |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

Sample VGF820 [SUMA1048] : Sample analyzed past hold time.

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

# QUALITY ASSURANCE REPORT



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8553217 | Bromochloromethane | 2023/03/15 | 106 | 60 - 140 | 104 | % | | |
| 8553217 | D5-Chlorobenzene | 2023/03/15 | 111 | 60 - 140 | 85 | % | | |
| 8553217 | Difluorobenzene | 2023/03/15 | 112 | 60 - 140 | 86 | % | | |
| 8553218 | Bromochloromethane | 2023/03/15 | 106 | 60 - 140 | 104 | % | | |
| 8553218 | D5-Chlorobenzene | 2023/03/15 | 111 | 60 - 140 | 85 | % | | |
| 8553218 | Difluorobenzene | 2023/03/15 | 112 | 60 - 140 | 86 | % | | |
| 8553217 | 1,2,4-Trimethylbenzene | 2023/03/15 | 104 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8553217 | 1,2-Dichlorotetrafluoroethane | 2023/03/15 | 88 | 70 - 130 | <0.17 | ppbv | NC (1) | 25 |
| 8553217 | 1,3,5-Trimethylbenzene | 2023/03/15 | 101 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8553217 | 1,3-Butadiene | 2023/03/15 | 104 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8553217 | 1,3-Dichlorobenzene | 2023/03/15 | 97 | 70 - 130 | <0.40 | ppbv | NC (1) | 25 |
| 8553217 | 1,4-Dioxane | 2023/03/15 | 102 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 8553217 | 2,2,4-Trimethylpentane | 2023/03/15 | 105 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8553217 | 2-propanol | 2023/03/15 | 96 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 8553217 | 4-ethyltoluene | 2023/03/15 | 105 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8553217 | Benzyl chloride | 2023/03/15 | 115 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8553217 | Bromodichloromethane | 2023/03/15 | 95 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8553217 | Carbon Disulfide | 2023/03/15 | 94 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8553217 | Chloroethane | 2023/03/15 | 107 | 70 - 130 | <0.30 | ppbv | NC (1) | 25 |
| 8553217 | Chloromethane | 2023/03/15 | 101 | 70 - 130 | <0.30 | ppbv | 0.41 (1) | 25 |
| 8553217 | Cyclohexane | 2023/03/15 | 106 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8553217 | Dibromochloromethane | 2023/03/15 | 100 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8553217 | Dichlorodifluoromethane (FREON 12) | 2023/03/15 | 83 | 70 - 130 | <0.20 | ppbv | 4.1 (1) | 25 |
| 8553217 | Ethanol (ethyl alcohol) | 2023/03/15 | 92 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 8553217 | Ethyl Acetate | 2023/03/15 | 106 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 8553217 | Heptane | 2023/03/15 | 108 | 70 - 130 | <0.30 | ppbv | NC (1) | 25 |
| 8553217 | Methyl Butyl Ketone (2-Hexanone) | 2023/03/15 | 102 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 8553217 | Propene | 2023/03/15 | 103 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8553217 | Tetrahydrofuran | 2023/03/15 | 104 | 70 - 130 | <0.40 | ppbv | NC (1) | 25 |
| 8553217 | Trichlorofluoromethane (FREON 11) | 2023/03/15 | 99 | 70 - 130 | <0.20 | ppbv | 2.6 (1) | 25 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8553217 | Trichlorotrifluoroethane | 2023/03/15 | 99 | 70 - 130 | <0.15 | ppbv | NC (1) | 25 |
| 8553217 | Vinyl Acetate | 2023/03/15 | 105 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8553217 | Vinyl Bromide | 2023/03/15 | 92 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8553218 | 1,1,1,2-Tetrachloroethane | 2023/03/15 | 94 | 70 - 130 | <0.021 | ppbv | NC (1) | 25 |
| 8553218 | 1,1,1-Trichloroethane | 2023/03/15 | 97 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8553218 | 1,1,2,2-Tetrachloroethane | 2023/03/15 | 90 | 70 - 130 | <0.0027 | ppbv | NC (1) | 25 |
| 8553218 | 1,1,2-Trichloroethane | 2023/03/15 | 101 | 70 - 130 | <0.012 | ppbv | NC (1) | 25 |
| 8553218 | 1,1-Dichloroethane | 2023/03/15 | 96 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8553218 | 1,1-Dichloroethylene | 2023/03/15 | 100 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8553218 | 1,2,4-Trichlorobenzene | 2023/03/15 | 94 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8553218 | 1,2-Dichlorobenzene | 2023/03/15 | 94 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8553218 | 1,2-Dichloroethane | 2023/03/15 | 102 | 70 - 130 | <0.010 | ppbv | 5.7 (1) | 25 |
| 8553218 | 1,2-Dichloropropane | 2023/03/15 | 99 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8553218 | 1,4-Dichlorobenzene | 2023/03/15 | 100 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8553218 | 2-Propanone | 2023/03/15 | 92 | 70 - 130 | <0.10 | ppbv | NC (1) | N/A |
| 8553218 | Benzene | 2023/03/15 | 104 | 70 - 130 | <0.050 | ppbv | 1.4 (1) | 25 |
| 8553218 | Bromoform | 2023/03/15 | 97 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8553218 | Bromomethane | 2023/03/15 | 97 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8553218 | Carbon Tetrachloride | 2023/03/15 | 102 | 70 - 130 | <0.050 | ppbv | 5.6 (1) | 25 |
| 8553218 | Chlorobenzene | 2023/03/15 | 101 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8553218 | Chloroform | 2023/03/15 | 102 | 70 - 130 | <0.040 | ppbv | NC (1) | 25 |
| 8553218 | cis-1,2-Dichloroethylene | 2023/03/15 | 99 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8553218 | cis-1,3-Dichloropropene | 2023/03/15 | 103 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8553218 | Ethylbenzene | 2023/03/15 | 110 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8553218 | Ethylene Dibromide | 2023/03/15 | 102 | 70 - 130 | <0.010 | ppbv | NC (1) | 25 |
| 8553218 | Hexachlorobutadiene | 2023/03/15 | 73 | 70 - 130 | <0.0047 | ppbv | NC (1) | 25 |
| 8553218 | Hexane | 2023/03/15 | 101 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8553218 | Methyl Ethyl Ketone (2-Butanone) | 2023/03/15 | 99 | 70 - 130 | <0.10 | ppbv | 1.9 (1) | 25 |
| 8553218 | Methyl Isobutyl Ketone | 2023/03/15 | 100 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8553218 | Methyl t-butyl ether (MTBE) | 2023/03/15 | 95 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8553218 | Methylene Chloride(Dichloromethane) | 2023/03/15 | 96 | 70 - 130 | <0.050 | ppbv | 7.1 (1) | 25 |
| 8553218 | Naphthalene | 2023/03/15 | 107 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8553218 | o-Xylene | 2023/03/15 | 102 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8553218 | p+m-Xylene | 2023/03/15 | 111 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8553218 | Styrene | 2023/03/15 | 103 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8553218 | Tetrachloroethylene | 2023/03/15 | 103 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8553218 | Toluene | 2023/03/15 | 110 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8553218 | Total Xylenes | 2023/03/15 | 108 | 70 - 130 | <0.15 | ppbv | NC (1) | 25 |
| 8553218 | trans-1,2-Dichloroethylene | 2023/03/15 | 97 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8553218 | trans-1,3-Dichloropropene | 2023/03/15 | 111 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8553218 | Trichloroethylene | 2023/03/15 | 103 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8553218 | Vinyl Chloride | 2023/03/15 | 102 | 70 - 130 | <0.020 | ppbv | NC (1) | 25 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Duplicate Parent ID [VGF820-01]



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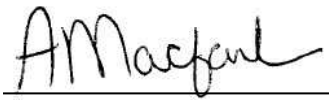
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C368124
Report Date: 2023/03/23

WSP E & I Canada Limited
Client Project #: KINROSS PROECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anke Macfarlane, Laboratory Manager, VOC

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CAM FCD-01302 /3

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Mississauga Ontario ,L5N 2L8
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:

**SECTION**

Sampled by: JM

**ANALYSIS REQUESTED**

| Field Sample ID | Initial Pressure (mm HG) | Final Pressure (mm Hg) | Sample Date | Sample Collection Time | Dust Fall Opening (Inner Diameter | Dust Fall Opening (Outer Diameter | Silica | PM 10 | Dustfall | $NO_2$ | $SO_2$ | VOC Summa Canister | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Suma1048 | -30 | -6 | Feb 10 - 11 | 23H47M | | | | | | | | X | | | | | |
| Suma0053 | -27 | 0 | Mar 1 - 2 | 26H15M | | | | | | | | X | | | | | |

10-Mar-23 09:00
Gina Baybayan
C368124
BSC AIR-001

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com***

Client Signature:
Affiliation: Kinross
Date/Time: Mar 6 2023

Received by:
Affiliation:
Date/Time: 2023 | 03 | 10 | 09:00

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at*

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: NA

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/05/10**
Report #: R7623431
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3B7268**
**Received: 2023/04/26, 13:00**

Sample Matrix: Air
# Samples Received: 1

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | 1 | N/A | 2023/05/09 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air by GC/MS/SIM (1) | 1 | N/A | 2023/05/09 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air (TO-15) (2) | 1 | N/A | 2023/05/09 | BRL SOP-00304 | EPA TO-15 m |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT
Your C.O.C. #: NA

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/05/10**
Report #: R7623431
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

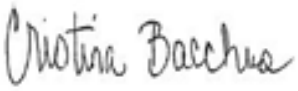
**BUREAU VERITAS JOB #: C3B7268**

**Received: 2023/04/26, 13:00**

(2) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key



Cristina (Maria) Bacchus
Project Manager
10 May 2023 17:01:52

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| Bureau Veritas ID | | VQO933 | | |
|---|---|---|---|---|
| Sampling Date | | 2023/04/13 | | |
| COC Number | | NA | | |
| | UNITS | SX1841 SUMA APRIL 19 | RDL | QC Batch |
| **Volatile Organics** | | | | |
| Pressure on Receipt | psig | (-3.3) | N/A | 8654584 |
| 2-Propanone | ppbv | 1.93 | 0.25 | 8654576 |
| Dichlorodifluoromethane (FREON 12) | ppbv | 0.51 | 0.20 | 8654568 |
| 1,2-Dichlorotetrafluoroethane | ppbv | <0.17 | 0.17 | 8654568 |
| Chloromethane | ppbv | 0.63 | 0.30 | 8654568 |
| Vinyl Chloride | ppbv | <0.020 | 0.020 | 8654576 |
| Chloroethane | ppbv | <0.30 | 0.30 | 8654568 |
| 1,3-Butadiene | ppbv | <0.50 | 0.50 | 8654568 |
| Trichlorofluoromethane (FREON 11) | ppbv | 0.29 | 0.20 | 8654568 |
| Ethanol (ethyl alcohol) | ppbv | <1.0 | 1.0 | 8654568 |
| Trichlorotrifluoroethane | ppbv | <0.15 | 0.15 | 8654568 |
| 2-propanol | ppbv | <1.0 | 1.0 | 8654568 |
| Methyl Ethyl Ketone (2-Butanone) | ppbv | 0.33 | 0.10 | 8654576 |
| Methyl Isobutyl Ketone | ppbv | <0.10 | 0.10 | 8654576 |
| Methyl Butyl Ketone (2-Hexanone) | ppbv | <1.0 | 1.0 | 8654568 |
| Methyl t-butyl ether (MTBE) | ppbv | <0.10 | 0.10 | 8654576 |
| Ethyl Acetate | ppbv | <1.0 | 1.0 | 8654568 |
| 1,1-Dichloroethylene | ppbv | <0.050 | 0.050 | 8654576 |
| cis-1,2-Dichloroethylene | ppbv | <0.050 | 0.050 | 8654576 |
| trans-1,2-Dichloroethylene | ppbv | <0.10 | 0.10 | 8654576 |
| Methylene Chloride(Dichloromethane) | ppbv | 0.177 | 0.050 | 8654576 |
| Chloroform | ppbv | <0.040 | 0.040 | 8654576 |
| Carbon Tetrachloride | ppbv | 0.094 | 0.050 | 8654576 |
| 1,1-Dichloroethane | ppbv | <0.050 | 0.050 | 8654576 |
| 1,2-Dichloroethane | ppbv | 0.029 | 0.010 | 8654576 |
| Ethylene Dibromide | ppbv | <0.010 | 0.010 | 8654576 |
| 1,1,1-Trichloroethane | ppbv | <0.050 | 0.050 | 8654576 |
| 1,1,2-Trichloroethane | ppbv | <0.012 | 0.012 | 8654576 |
| 1,1,2,2-Tetrachloroethane | ppbv | <0.0027 | 0.0027 | 8654576 |
| cis-1,3-Dichloropropene | ppbv | <0.050 | 0.050 | 8654576 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| Bureau Veritas ID | | VQO933 | | |
|---|---|---|---|---|
| Sampling Date | | 2023/04/13 | | |
| COC Number | | NA | | |
| | UNITS | SX1841 SUMA APRIL 19 | RDL | QC Batch |
| trans-1,3-Dichloropropene | ppbv | <0.050 | 0.050 | 8654576 |
| 1,2-Dichloropropane | ppbv | <0.050 | 0.050 | 8654576 |
| Bromomethane | ppbv | <0.050 | 0.050 | 8654576 |
| Bromoform | ppbv | <0.10 | 0.10 | 8654576 |
| Bromodichloromethane | ppbv | <0.20 | 0.20 | 8654568 |
| Dibromochloromethane | ppbv | <0.20 | 0.20 | 8654568 |
| Trichloroethylene | ppbv | <0.050 | 0.050 | 8654576 |
| Tetrachloroethylene | ppbv | <0.050 | 0.050 | 8654576 |
| Benzene | ppbv | 0.084 | 0.050 | 8654576 |
| Toluene | ppbv | <0.050 | 0.050 | 8654576 |
| Ethylbenzene | ppbv | <0.050 | 0.050 | 8654576 |
| p+m-Xylene | ppbv | <0.10 | 0.10 | 8654576 |
| o-Xylene | ppbv | <0.050 | 0.050 | 8654576 |
| Styrene | ppbv | <0.050 | 0.050 | 8654576 |
| 4-ethyltoluene | ppbv | <0.50 | 0.50 | 8654568 |
| 1,3,5-Trimethylbenzene | ppbv | <0.50 | 0.50 | 8654568 |
| 1,2,4-Trimethylbenzene | ppbv | <0.50 | 0.50 | 8654568 |
| Chlorobenzene | ppbv | <0.050 | 0.050 | 8654576 |
| Benzyl chloride | ppbv | <0.50 | 0.50 | 8654568 |
| 1,3-Dichlorobenzene | ppbv | <0.40 | 0.40 | 8654568 |
| 1,4-Dichlorobenzene | ppbv | <0.050 | 0.050 | 8654576 |
| 1,2-Dichlorobenzene | ppbv | <0.050 | 0.050 | 8654576 |
| 1,2,4-Trichlorobenzene | ppbv | <0.10 | 0.10 | 8654576 |
| Hexachlorobutadiene | ppbv | <0.0047 | 0.0047 | 8654576 |
| Hexane | ppbv | <0.10 | 0.10 | 8654576 |
| Heptane | ppbv | <0.30 | 0.30 | 8654568 |
| Cyclohexane | ppbv | <0.20 | 0.20 | 8654568 |
| Tetrahydrofuran | ppbv | <0.40 | 0.40 | 8654568 |
| 1,4-Dioxane | ppbv | <1.0 | 1.0 | 8654568 |
| Naphthalene | ppbv | <0.10 | 0.10 | 8654576 |
| Total Xylenes | ppbv | <0.15 | 0.15 | 8654576 |
| 1,1,1,2-Tetrachloroethane | ppbv | <0.021 | 0.021 | 8654576 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| **Bureau Veritas ID** | | VQO933 | | |
|---|---|---|---|---|
| **Sampling Date** | | 2023/04/13 | | |
| **COC Number** | | NA | | |
| | **UNITS** | **SX1841 SUMA APRIL 19** | **RDL** | **QC Batch** |
| Vinyl Bromide | ppbv | <0.20 | 0.20 | 8654568 |
| Propene | ppbv | <0.50 | 0.50 | 8654568 |
| 2,2,4-Trimethylpentane | ppbv | <0.20 | 0.20 | 8654568 |
| Carbon Disulfide | ppbv | <0.50 | 0.50 | 8654568 |
| Vinyl Acetate | ppbv | <0.20 | 0.20 | 8654568 |
| **Surrogate Recovery (%)** | | | | |
| Bromochloromethane | % | 93 | N/A | 8654576 |
| D5-Chlorobenzene | % | 92 | N/A | 8654576 |
| Difluorobenzene | % | 89 | N/A | 8654576 |
| Bromochloromethane | % | 93 | N/A | 8654568 |
| D5-Chlorobenzene | % | 92 | N/A | 8654568 |
| Difluorobenzene | % | 89 | N/A | 8654568 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

Bureau Veritas Job #: C3B7268
Report Date: 2023/05/10

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** VQO933
**Sample ID:** SX1841 SUMA APRIL 19
**Matrix:** Air

**Collected:** 2023/04/13
**Shipped:**
**Received:** 2023/04/26

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | PRES | 8654584 | N/A | 2023/05/09 | Pratima Patel |
| Volatile Organics in Air by GC/MS/SIM | GC/MS | 8654576 | N/A | 2023/05/09 | Pratima Patel |
| Volatile Organics in Air (TO-15) | GC/MS | 8654568 | N/A | 2023/05/09 | Pratima Patel |



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## GENERAL COMMENTS

Sample VQO933 [SX1841 SUMA APRIL 19] : TO15M- 3 compounds were below the 70% recovery criteria in the reference standard. These compounds meet the %RSD criteria in the calibration standard. The failure of these 3 compounds is not believed to have an effect on the integrity of the results.

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

# QUALITY ASSURANCE REPORT



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8654568 | Bromochloromethane | 2023/05/09 | 102 | 60 - 140 | 102 | % | | |
| 8654568 | D5-Chlorobenzene | 2023/05/09 | 101 | 60 - 140 | 98 | % | | |
| 8654568 | Difluorobenzene | 2023/05/09 | 102 | 60 - 140 | 98 | % | | |
| 8654576 | Bromochloromethane | 2023/05/09 | 102 | 60 - 140 | 102 | % | | |
| 8654576 | D5-Chlorobenzene | 2023/05/09 | 101 | 60 - 140 | 98 | % | | |
| 8654576 | Difluorobenzene | 2023/05/09 | 102 | 60 - 140 | 98 | % | | |
| 8654568 | 1,2,4-Trimethylbenzene | 2023/05/09 | 87 | 70 - 130 | <0.50 | ppbv | NC (2) | 25 |
| 8654568 | 1,2-Dichlorotetrafluoroethane | 2023/05/09 | 93 | 70 - 130 | <0.17 | ppbv | NC (2) | 25 |
| 8654568 | 1,3,5-Trimethylbenzene | 2023/05/09 | 90 | 70 - 130 | <0.50 | ppbv | NC (2) | 25 |
| 8654568 | 1,3-Butadiene | 2023/05/09 | 101 | 70 - 130 | <0.50 | ppbv | NC (2) | 25 |
| 8654568 | 1,3-Dichlorobenzene | 2023/05/09 | 87 | 70 - 130 | <0.40 | ppbv | NC (2) | 25 |
| 8654568 | 1,4-Dioxane | 2023/05/09 | 44 (1) | 70 - 130 | <1.0 | ppbv | NC (2) | 25 |
| 8654568 | 2,2,4-Trimethylpentane | 2023/05/09 | 100 | 70 - 130 | <0.20 | ppbv | NC (2) | 25 |
| 8654568 | 2-propanol | 2023/05/09 | 86 | 70 - 130 | <1.0 | ppbv | NC (2) | 25 |
| 8654568 | 4-ethyltoluene | 2023/05/09 | 87 | 70 - 130 | <0.50 | ppbv | NC (2) | 25 |
| 8654568 | Benzyl chloride | 2023/05/09 | 116 | 70 - 130 | <0.50 | ppbv | NC (2) | 25 |
| 8654568 | Bromodichloromethane | 2023/05/09 | 96 | 70 - 130 | <0.20 | ppbv | NC (2) | 25 |
| 8654568 | Carbon Disulfide | 2023/05/09 | 97 | 70 - 130 | <0.50 | ppbv | NC (2) | 25 |
| 8654568 | Chloroethane | 2023/05/09 | 102 | 70 - 130 | <0.30 | ppbv | NC (2) | 25 |
| 8654568 | Chloromethane | 2023/05/09 | 102 | 70 - 130 | <0.30 | ppbv | 2.3 (2) | 25 |
| 8654568 | Cyclohexane | 2023/05/09 | 95 | 70 - 130 | <0.20 | ppbv | NC (2) | 25 |
| 8654568 | Dibromochloromethane | 2023/05/09 | 110 | 70 - 130 | <0.20 | ppbv | NC (2) | 25 |
| 8654568 | Dichlorodifluoromethane (FREON 12) | 2023/05/09 | 98 | 70 - 130 | <0.20 | ppbv | 11 (2) | 25 |
| 8654568 | Ethanol (ethyl alcohol) | 2023/05/09 | 64 (1) | 70 - 130 | <1.0 | ppbv | 0.057 (2) | 25 |
| 8654568 | Ethyl Acetate | 2023/05/09 | 107 | 70 - 130 | <1.0 | ppbv | NC (2) | 25 |
| 8654568 | Heptane | 2023/05/09 | 98 | 70 - 130 | <0.30 | ppbv | NC (2) | 25 |
| 8654568 | Methyl Butyl Ketone (2-Hexanone) | 2023/05/09 | 69 (1) | 70 - 130 | <1.0 | ppbv | NC (2) | 25 |
| 8654568 | Propene | 2023/05/09 | 97 | 70 - 130 | <0.50 | ppbv | NC (2) | 25 |
| 8654568 | Tetrahydrofuran | 2023/05/09 | 95 | 70 - 130 | <0.40 | ppbv | NC (2) | 25 |
| 8654568 | Trichlorofluoromethane (FREON 11) | 2023/05/09 | 94 | 70 - 130 | <0.20 | ppbv | 0.67 (2) | 25 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8654568 | Trichlorotrifluoroethane | 2023/05/09 | 100 | 70 - 130 | <0.15 | ppbv | NC (2) | 25 |
| 8654568 | Vinyl Acetate | 2023/05/09 | 114 | 70 - 130 | <0.20 | ppbv | NC (2) | 25 |
| 8654568 | Vinyl Bromide | 2023/05/09 | 90 | 70 - 130 | <0.20 | ppbv | NC (2) | 25 |
| 8654576 | 1,1,1,2-Tetrachloroethane | 2023/05/09 | 117 | 70 - 130 | <0.021 | ppbv | NC (2) | 25 |
| 8654576 | 1,1,1-Trichloroethane | 2023/05/09 | 96 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8654576 | 1,1,2,2-Tetrachloroethane | 2023/05/09 | 89 | 70 - 130 | <0.0027 | ppbv | NC (2) | 25 |
| 8654576 | 1,1,2-Trichloroethane | 2023/05/09 | 100 | 70 - 130 | <0.012 | ppbv | NC (2) | 25 |
| 8654576 | 1,1-Dichloroethane | 2023/05/09 | 92 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8654576 | 1,1-Dichloroethylene | 2023/05/09 | 99 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8654576 | 1,2,4-Trichlorobenzene | 2023/05/09 | 76 | 70 - 130 | <0.10 | ppbv | NC (2) | 25 |
| 8654576 | 1,2-Dichlorobenzene | 2023/05/09 | 80 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8654576 | 1,2-Dichloroethane | 2023/05/09 | 95 | 70 - 130 | <0.010 | ppbv | 3.5 (2) | 25 |
| 8654576 | 1,2-Dichloropropane | 2023/05/09 | 100 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8654576 | 1,4-Dichlorobenzene | 2023/05/09 | 88 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8654576 | 2-Propanone | 2023/05/09 | 93 | 70 - 130 | <0.25 | ppbv | NC (2) | N/A |
| 8654576 | Benzene | 2023/05/09 | 97 | 70 - 130 | <0.050 | ppbv | 0.50 (2) | 25 |
| 8654576 | Bromoform | 2023/05/09 | 118 | 70 - 130 | <0.10 | ppbv | NC (2) | 25 |
| 8654576 | Bromomethane | 2023/05/09 | 95 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8654576 | Carbon Tetrachloride | 2023/05/09 | 106 | 70 - 130 | <0.050 | ppbv | 2.0 (2) | 25 |
| 8654576 | Chlorobenzene | 2023/05/09 | 99 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8654576 | Chloroform | 2023/05/09 | 98 | 70 - 130 | <0.040 | ppbv | NC (2) | 25 |
| 8654576 | cis-1,2-Dichloroethylene | 2023/05/09 | 95 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8654576 | cis-1,3-Dichloropropene | 2023/05/09 | 104 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8654576 | Ethylbenzene | 2023/05/09 | 96 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8654576 | Ethylene Dibromide | 2023/05/09 | 102 | 70 - 130 | <0.010 | ppbv | NC (2) | 25 |
| 8654576 | Hexachlorobutadiene | 2023/05/09 | 98 | 70 - 130 | <0.0047 | ppbv | NC (2) | 25 |
| 8654576 | Hexane | 2023/05/09 | 94 | 70 - 130 | <0.10 | ppbv | 0.068 (2) | 25 |
| 8654576 | Methyl Ethyl Ketone (2-Butanone) | 2023/05/09 | 93 | 70 - 130 | <0.10 | ppbv | 1.3 (2) | 25 |
| 8654576 | Methyl Isobutyl Ketone | 2023/05/09 | 79 | 70 - 130 | <0.10 | ppbv | NC (2) | 25 |
| 8654576 | Methyl t-butyl ether (MTBE) | 2023/05/09 | 83 | 70 - 130 | <0.10 | ppbv | NC (2) | 25 |



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8654576 | Methylene Chloride(Dichloromethane) | 2023/05/09 | 97 | 70 - 130 | <0.050 | ppbv | 2.0 (2) | 25 |
| 8654576 | Naphthalene | 2023/05/09 | 75 | 70 - 130 | <0.10 | ppbv | NC (2) | 25 |
| 8654576 | o-Xylene | 2023/05/09 | 91 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8654576 | p+m-Xylene | 2023/05/09 | 94 | 70 - 130 | <0.10 | ppbv | 0.043 (2) | 25 |
| 8654576 | Styrene | 2023/05/09 | 93 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8654576 | Tetrachloroethylene | 2023/05/09 | 99 | 70 - 130 | <0.050 | ppbv | 8.5 (2) | 25 |
| 8654576 | Toluene | 2023/05/09 | 95 | 70 - 130 | <0.050 | ppbv | 2.0 (2) | 25 |
| 8654576 | Total Xylenes | 2023/05/09 | 93 | 70 - 130 | <0.15 | ppbv | NC (2) | 25 |
| 8654576 | trans-1,2-Dichloroethylene | 2023/05/09 | 94 | 70 - 130 | <0.10 | ppbv | NC (2) | 25 |
| 8654576 | trans-1,3-Dichloropropene | 2023/05/09 | 116 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8654576 | Trichloroethylene | 2023/05/09 | 98 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8654576 | Vinyl Chloride | 2023/05/09 | 100 | 70 - 130 | <0.020 | ppbv | NC (2) | 25 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

(2) Duplicate Parent ID



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3B7268
Report Date: 2023/05/10

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Melanie Mabini, Team Leader

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

CAM FCD-01302 /3

BUREAU VERITAS

6740 Campobello Rd
Mississauga Ontario ,L5N 2L8
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Initial Pressure (mm HG) | Final Pressure (mm Hg) | Sample Date | Sample Collection Time | Dust Fall Opening (Inner Diameter | Dust Fall Opening (Outer Diameter | Silica | PM 10 | Dustfall | $NO_2$ | $SO_2$ | VOC Summa Canister | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SX1841 Suma April 19 | -28.5 | -3.5 | April 12-13 | 25 Hours | | | | | | | | X | | | | | |

26-Apr-23 13:00
Gina Baybayan
C3B7268
BSU AIR-001

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com***

Client Signature: Jacob McFee
Affiliation: Kinross
Date/Time: April 19 2023

Received by: Cristina Bacchus
Affiliation:
Date/Time: 2023/04/26 13:00

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at*

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT (RED LAKE)
Your C.O.C. #: NA

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/06/08**
Report #: R7662793
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3F2667**
**Received: 2023/05/29, 14:00**

Sample Matrix: Air
# Samples Received: 1

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | 1 | N/A | 2023/06/02 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air by GC/MS/SIM (1) | 1 | N/A | 2023/06/02 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air (TO-15) (2) | 1 | N/A | 2023/06/02 | BRL SOP-00304 | EPA TO-15 m |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCCFP, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Your P.O. #: C026300307
Your Project #: KINROSS PROJECT (RED LAKE)
Your C.O.C. #: NA

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/06/08**
Report #: R7662793
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

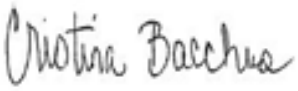
**BUREAU VERITAS JOB #: C3F2667**

**Received: 2023/05/29, 14:00**

(2) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key



Cristina (Maria) Bacchus
Project Manager
08 Jun 2023 17:59:30

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| Bureau Veritas ID | | VYB325 | | |
|---|---|---|---|---|
| Sampling Date | | 2023/05/08 | | |
| COC Number | | NA | | |
| | UNITS | MAY 7 TEARDROP SUMMA | RDL | QC Batch |
| **Volatile Organics** | | | | |
| Pressure on Receipt | psig | (-2.2) | N/A | 8700275 |
| 2-Propanone | ppbv | 1.85 | 0.12 | 8700272 |
| Dichlorodifluoromethane (FREON 12) | ppbv | 0.49 | 0.20 | 8700268 |
| 1,2-Dichlorotetrafluoroethane | ppbv | <0.17 | 0.17 | 8700268 |
| Chloromethane | ppbv | 0.51 | 0.30 | 8700268 |
| Vinyl Chloride | ppbv | <0.020 | 0.020 | 8700272 |
| Chloroethane | ppbv | <0.30 | 0.30 | 8700268 |
| 1,3-Butadiene | ppbv | <0.50 | 0.50 | 8700268 |
| Trichlorofluoromethane (FREON 11) | ppbv | 0.26 | 0.20 | 8700268 |
| Ethanol (ethyl alcohol) | ppbv | <1.0 | 1.0 | 8700268 |
| Trichlorotrifluoroethane | ppbv | <0.15 | 0.15 | 8700268 |
| 2-propanol | ppbv | <1.0 | 1.0 | 8700268 |
| Methyl Ethyl Ketone (2-Butanone) | ppbv | 0.27 | 0.10 | 8700272 |
| Methyl Isobutyl Ketone | ppbv | <0.10 | 0.10 | 8700272 |
| Methyl Butyl Ketone (2-Hexanone) | ppbv | <1.0 | 1.0 | 8700268 |
| Methyl t-butyl ether (MTBE) | ppbv | <0.10 | 0.10 | 8700272 |
| Ethyl Acetate | ppbv | <1.0 | 1.0 | 8700268 |
| 1,1-Dichloroethylene | ppbv | <0.050 | 0.050 | 8700272 |
| cis-1,2-Dichloroethylene | ppbv | <0.050 | 0.050 | 8700272 |
| trans-1,2-Dichloroethylene | ppbv | <0.10 | 0.10 | 8700272 |
| Methylene Chloride(Dichloromethane) | ppbv | 0.310 | 0.050 | 8700272 |
| Chloroform | ppbv | <0.040 | 0.040 | 8700272 |
| Carbon Tetrachloride | ppbv | 0.093 | 0.050 | 8700272 |
| 1,1-Dichloroethane | ppbv | <0.050 | 0.050 | 8700272 |
| 1,2-Dichloroethane | ppbv | 0.022 | 0.010 | 8700272 |
| Ethylene Dibromide | ppbv | <0.010 | 0.010 | 8700272 |
| 1,1,1-Trichloroethane | ppbv | <0.050 | 0.050 | 8700272 |
| 1,1,2-Trichloroethane | ppbv | <0.012 | 0.012 | 8700272 |
| 1,1,2,2-Tetrachloroethane | ppbv | <0.0027 | 0.0027 | 8700272 |
| cis-1,3-Dichloropropene | ppbv | <0.050 | 0.050 | 8700272 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| Bureau Veritas ID | | VYB325 | | |
|---|---|---|---|---|
| Sampling Date | | 2023/05/08 | | |
| COC Number | | NA | | |
| | UNITS | MAY 7 TEARDROP SUMMA | RDL | QC Batch |
| trans-1,3-Dichloropropene | ppbv | <0.050 | 0.050 | 8700272 |
| 1,2-Dichloropropane | ppbv | <0.050 | 0.050 | 8700272 |
| Bromomethane | ppbv | <0.050 | 0.050 | 8700272 |
| Bromoform | ppbv | <0.10 | 0.10 | 8700272 |
| Bromodichloromethane | ppbv | <0.20 | 0.20 | 8700268 |
| Dibromochloromethane | ppbv | <0.20 | 0.20 | 8700268 |
| Trichloroethylene | ppbv | <0.050 | 0.050 | 8700272 |
| Tetrachloroethylene | ppbv | <0.050 | 0.050 | 8700272 |
| Benzene | ppbv | <0.050 | 0.050 | 8700272 |
| Toluene | ppbv | <0.050 | 0.050 | 8700272 |
| Ethylbenzene | ppbv | <0.050 | 0.050 | 8700272 |
| p+m-Xylene | ppbv | <0.10 | 0.10 | 8700272 |
| o-Xylene | ppbv | <0.050 | 0.050 | 8700272 |
| Styrene | ppbv | <0.050 | 0.050 | 8700272 |
| 4-ethyltoluene | ppbv | <0.50 | 0.50 | 8700268 |
| 1,3,5-Trimethylbenzene | ppbv | <0.50 | 0.50 | 8700268 |
| 1,2,4-Trimethylbenzene | ppbv | <0.50 | 0.50 | 8700268 |
| Chlorobenzene | ppbv | <0.050 | 0.050 | 8700272 |
| Benzyl chloride | ppbv | <0.50 | 0.50 | 8700268 |
| 1,3-Dichlorobenzene | ppbv | <0.40 | 0.40 | 8700268 |
| 1,4-Dichlorobenzene | ppbv | <0.050 | 0.050 | 8700272 |
| 1,2-Dichlorobenzene | ppbv | <0.050 | 0.050 | 8700272 |
| 1,2,4-Trichlorobenzene | ppbv | <0.10 | 0.10 | 8700272 |
| Hexachlorobutadiene | ppbv | <0.0047 | 0.0047 | 8700272 |
| Hexane | ppbv | 0.15 | 0.10 | 8700272 |
| Heptane | ppbv | <0.30 | 0.30 | 8700268 |
| Cyclohexane | ppbv | <0.20 | 0.20 | 8700268 |
| Tetrahydrofuran | ppbv | <0.40 | 0.40 | 8700268 |
| 1,4-Dioxane | ppbv | <1.0 | 1.0 | 8700268 |
| Naphthalene | ppbv | <0.10 | 0.10 | 8700272 |
| Total Xylenes | ppbv | <0.15 | 0.15 | 8700272 |
| 1,1,1,2-Tetrachloroethane | ppbv | <0.021 | 0.021 | 8700272 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT (RED LAKE)
Your P.O. #: C026300307
Sampler Initials: JMF

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| **Bureau Veritas ID** | | VYB325 | | |
|---|---|---|---|---|
| **Sampling Date** | | 2023/05/08 | | |
| **COC Number** | | NA | | |
| | **UNITS** | **MAY 7 TEARDROP SUMMA** | **RDL** | **QC Batch** |
| Vinyl Bromide | ppbv | <0.20 | 0.20 | 8700268 |
| Propene | ppbv | <0.50 | 0.50 | 8700268 |
| 2,2,4-Trimethylpentane | ppbv | <0.20 | 0.20 | 8700268 |
| Carbon Disulfide | ppbv | <0.50 | 0.50 | 8700268 |
| Vinyl Acetate | ppbv | <0.20 | 0.20 | 8700268 |
| **Surrogate Recovery (%)** | | | | |
| Bromochloromethane | % | 98 | N/A | 8700272 |
| D5-Chlorobenzene | % | 95 | N/A | 8700272 |
| Difluorobenzene | % | 93 | N/A | 8700272 |
| Bromochloromethane | % | 98 | N/A | 8700268 |
| D5-Chlorobenzene | % | 95 | N/A | 8700268 |
| Difluorobenzene | % | 93 | N/A | 8700268 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

Bureau Veritas Job #: C3F2667
Report Date: 2023/06/08

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT (RED LAKE)
Your P.O. #: C026300307
Sampler Initials: JMF

## TEST SUMMARY

**Bureau Veritas ID:** VYB325
**Sample ID:** MAY 7 TEARDROP SUMMA
**Matrix:** Air

**Collected:** 2023/05/08
**Shipped:**
**Received:** 2023/05/29

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | PRES | 8700275 | N/A | 2023/06/02 | Pratima Patel |
| Volatile Organics in Air by GC/MS/SIM | GC/MS | 8700272 | N/A | 2023/06/02 | Pratima Patel |
| Volatile Organics in Air (TO-15) | GC/MS | 8700268 | N/A | 2023/06/02 | Pratima Patel |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

# QUALITY ASSURANCE REPORT



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8700268 | Bromochloromethane | 2023/06/02 | 100 | 60 - 140 | 106 | % | | |
| 8700268 | D5-Chlorobenzene | 2023/06/02 | 101 | 60 - 140 | 99 | % | | |
| 8700268 | Difluorobenzene | 2023/06/02 | 102 | 60 - 140 | 101 | % | | |
| 8700272 | Bromochloromethane | 2023/06/02 | 100 | 60 - 140 | 106 | % | | |
| 8700272 | D5-Chlorobenzene | 2023/06/02 | 101 | 60 - 140 | 99 | % | | |
| 8700272 | Difluorobenzene | 2023/06/02 | 102 | 60 - 140 | 101 | % | | |
| 8700268 | 1,2,4-Trimethylbenzene | 2023/06/02 | 97 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8700268 | 1,2-Dichlorotetrafluoroethane | 2023/06/02 | 87 | 70 - 130 | <0.17 | ppbv | NC (1) | 25 |
| 8700268 | 1,3,5-Trimethylbenzene | 2023/06/02 | 98 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8700268 | 1,3-Butadiene | 2023/06/02 | 93 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8700268 | 1,3-Dichlorobenzene | 2023/06/02 | 98 | 70 - 130 | <0.40 | ppbv | NC (1) | 25 |
| 8700268 | 1,4-Dioxane | 2023/06/02 | 95 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 8700268 | 2,2,4-Trimethylpentane | 2023/06/02 | 93 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8700268 | 2-propanol | 2023/06/02 | 90 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 8700268 | 4-ethyltoluene | 2023/06/02 | 94 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8700268 | Benzyl chloride | 2023/06/02 | 109 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8700268 | Bromodichloromethane | 2023/06/02 | 98 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8700268 | Carbon Disulfide | 2023/06/02 | 90 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8700268 | Chloroethane | 2023/06/02 | 95 | 70 - 130 | <0.30 | ppbv | NC (1) | 25 |
| 8700268 | Chloromethane | 2023/06/02 | 91 | 70 - 130 | <0.30 | ppbv | 0.71 (1) | 25 |
| 8700268 | Cyclohexane | 2023/06/02 | 90 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8700268 | Dibromochloromethane | 2023/06/02 | 121 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8700268 | Dichlorodifluoromethane (FREON 12) | 2023/06/02 | 95 | 70 - 130 | <0.20 | ppbv | 0.67 (1) | 25 |
| 8700268 | Ethanol (ethyl alcohol) | 2023/06/02 | 88 | 70 - 130 | <1.0 | ppbv | 1.1 (1) | 25 |
| 8700268 | Ethyl Acetate | 2023/06/02 | 103 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 8700268 | Heptane | 2023/06/02 | 93 | 70 - 130 | <0.30 | ppbv | NC (1) | 25 |
| 8700268 | Methyl Butyl Ketone (2-Hexanone) | 2023/06/02 | 92 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 8700268 | Propene | 2023/06/02 | 97 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8700268 | Tetrahydrofuran | 2023/06/02 | 90 | 70 - 130 | <0.40 | ppbv | NC (1) | 25 |
| 8700268 | Trichlorofluoromethane (FREON 11) | 2023/06/02 | 90 | 70 - 130 | <0.20 | ppbv | 2.2 (1) | 25 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8700268 | Trichlorotrifluoroethane | 2023/06/02 | 87 | 70 - 130 | <0.15 | ppbv | NC (1) | 25 |
| 8700268 | Vinyl Acetate | 2023/06/02 | 107 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8700268 | Vinyl Bromide | 2023/06/02 | 84 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8700272 | 1,1,1,2-Tetrachloroethane | 2023/06/02 | 119 | 70 - 130 | <0.021 | ppbv | NC (1) | 25 |
| 8700272 | 1,1,1-Trichloroethane | 2023/06/02 | 92 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8700272 | 1,1,2,2-Tetrachloroethane | 2023/06/02 | 98 | 70 - 130 | <0.0027 | ppbv | NC (1) | 25 |
| 8700272 | 1,1,2-Trichloroethane | 2023/06/02 | 97 | 70 - 130 | <0.012 | ppbv | NC (1) | 25 |
| 8700272 | 1,1-Dichloroethane | 2023/06/02 | 86 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8700272 | 1,1-Dichloroethylene | 2023/06/02 | 93 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8700272 | 1,2,4-Trichlorobenzene | 2023/06/02 | 116 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8700272 | 1,2-Dichlorobenzene | 2023/06/02 | 96 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8700272 | 1,2-Dichloroethane | 2023/06/02 | 90 | 70 - 130 | <0.010 | ppbv | 0.79 (1) | 25 |
| 8700272 | 1,2-Dichloropropane | 2023/06/02 | 93 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8700272 | 1,4-Dichlorobenzene | 2023/06/02 | 100 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8700272 | 2-Propanone | 2023/06/02 | 84 | 70 - 130 | <0.12 | ppbv | NC (1) | N/A |
| 8700272 | Benzene | 2023/06/02 | 92 | 70 - 130 | <0.050 | ppbv | 0.95 (1) | 25 |
| 8700272 | Bromoform | 2023/06/02 | 138 (2) | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8700272 | Bromomethane | 2023/06/02 | 86 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8700272 | Carbon Tetrachloride | 2023/06/02 | 111 | 70 - 130 | <0.050 | ppbv | 4.7 (1) | 25 |
| 8700272 | Chlorobenzene | 2023/06/02 | 96 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8700272 | Chloroform | 2023/06/02 | 94 | 70 - 130 | <0.040 | ppbv | NC (1) | 25 |
| 8700272 | cis-1,2-Dichloroethylene | 2023/06/02 | 88 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8700272 | cis-1,3-Dichloropropene | 2023/06/02 | 95 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8700272 | Ethylbenzene | 2023/06/02 | 94 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8700272 | Ethylene Dibromide | 2023/06/02 | 105 | 70 - 130 | <0.010 | ppbv | NC (1) | 25 |
| 8700272 | Hexachlorobutadiene | 2023/06/02 | 120 | 70 - 130 | <0.0047 | ppbv | NC (1) | 25 |
| 8700272 | Hexane | 2023/06/02 | 87 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8700272 | Methyl Ethyl Ketone (2-Butanone) | 2023/06/02 | 88 | 70 - 130 | <0.10 | ppbv | 1.8 (1) | 25 |
| 8700272 | Methyl Isobutyl Ketone | 2023/06/02 | 90 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8700272 | Methyl t-butyl ether (MTBE) | 2023/06/02 | 69 (2) | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8700272 | Methylene Chloride(Dichloromethane) | 2023/06/02 | 88 | 70 - 130 | <0.050 | ppbv | 21 (1) | 25 |
| 8700272 | Naphthalene | 2023/06/02 | 125 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8700272 | o-Xylene | 2023/06/02 | 95 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8700272 | p+m-Xylene | 2023/06/02 | 94 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8700272 | Styrene | 2023/06/02 | 98 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8700272 | Tetrachloroethylene | 2023/06/02 | 95 | 70 - 130 | <0.050 | ppbv | 1.6 (1) | 25 |
| 8700272 | Toluene | 2023/06/02 | 90 | 70 - 130 | <0.050 | ppbv | 4.3 (1) | 25 |
| 8700272 | Total Xylenes | 2023/06/02 | 94 | 70 - 130 | <0.15 | ppbv | NC (1) | 25 |
| 8700272 | trans-1,2-Dichloroethylene | 2023/06/02 | 87 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8700272 | trans-1,3-Dichloropropene | 2023/06/02 | 101 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8700272 | Trichloroethylene | 2023/06/02 | 95 | 70 - 130 | <0.050 | ppbv | 2.2 (1) | 25 |
| 8700272 | Vinyl Chloride | 2023/06/02 | 90 | 70 - 130 | <0.020 | ppbv | NC (1) | 25 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Duplicate Parent ID

(2) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3F2667
Report Date: 2023/06/08

WSP E & I Canada Limited
Client Project #: KINROSS PROJECT (RED LAKE)
Your P.O. #: C026300307
Sampler Initials: JMF

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Anke Macfarlane, Laboratory Manager, VOC

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.


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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

CAM FCD-01302 /3

BUREAU VERITAS

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Mississauga Ontario ,L5N 2L8
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Phone: (905) 817-5700
Fax: (905) 817-5777

# Chain of Custody Form - Summa™ Canister

Page ____ of ____

**INVOICE INFORMATION**

Company Name:
Contact Name:
Address:
E-mail:
Ph:
Sampled by: Jacob McFee

**REPORT INFORMATION**

Company Name: Kinross
Project Manager: Jacob McFee
Address: 2 Industrial Park Road
Red Lake ON, CA, P0V 2M0
E-mail: jacob.mcfee@kinross.com
Ph: (807) 728-2185

**ANALYSIS REQUESTED**

| Field Sample ID | Canister Serial # | Flow Regulator Serial # | Collection Date | START VACUUM (inches of Hg) | END VACUUM (inches of Hg) | SOIL VAPOUR | AMBIENT/INDOOR AIR | AMBIENT/COMMERCIAL/INDUSTRIAL | SUB-SLAB GAS | FULL LIST OF VOCs (reference TO15A) | BTEX/Aromatic/Aliphatic Hydrocarbon Fractions | BTEX/F1 (C6-C10) and F2 (C10-C16) | Selected VOC's - please specify | Other | | | | CANISTERS NOT USED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| May 7 Teardrop Summa | SX2223 | FX172 | May 8th | -28.5 | -4 | | ✓ | | | ✓ | | | | | | | | |

29-May-23 14:00
Gina Baybayan
C3F2667
BSU AIR-001

**TAT Requirement**

STD 10 Business day ☐
Rush 5 Business day * ☐
Rush 2 Business day * ☐
Rush Other * ☐

* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project (Red Lake)
PO #: C0263 00307
Bureau Veritas Quote #:
Bureau Veritas Contact: Cristina Bacchus
Task Order/Line Item

**REPORTING REQUIREMENTS**

EDD ☐
Regulations ON 153 ☐
ON 419 ☐
BC CSR ☑
Other

**Notes**

*1) please indicate on chain of custody if your samples are soil vapour or ambient air*
*2) please list all canisters on the chain of custody even if unused*

**PROJECT SPECIFIC COMMENTS**

Client Signature: Jacob McFee
May 22, 2023

Received by: Manisha Tanwar
2023/05/29 14:00

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: NA

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/06/21**
Report #: R7681788
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3G4917**
**Received: 2023/06/08, 09:00**

Sample Matrix: Air
# Samples Received: 1

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | 1 | N/A | 2023/06/15 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air by GC/MS/SIM (1) | 1 | N/A | 2023/06/15 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air (TO-15) (2) | 1 | N/A | 2023/06/15 | BRL SOP-00304 | EPA TO-15 m |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCCFP, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: NA

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/06/21**
Report #: R7681788
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3G4917**

**Received: 2023/06/08, 09:00**

(2) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key

Cristina (Maria) Bacchus
Project Manager
21 Jun 2023 13:34:37

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3G4917
Report Date: 2023/06/21

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JMF

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| Bureau Veritas ID | | WAP873 | | |
|---|---|---|---|---|
| Sampling Date | | 2023/06/05 | | |
| COC Number | | NA | | |
| | UNITS | JUNE 4 SUMMA CAN | RDL | QC Batch |
| **Volatile Organics** | | | | |
| Pressure on Receipt | psig | (-3.9) | N/A | 8730805 |
| 2-Propanone | ppbv | 4.43 | 0.10 | 8730807 |
| Dichlorodifluoromethane (FREON 12) | ppbv | 0.39 | 0.20 | 8729217 |
| 1,2-Dichlorotetrafluoroethane | ppbv | <0.17 | 0.17 | 8729217 |
| Chloromethane | ppbv | 0.57 | 0.30 | 8729217 |
| Vinyl Chloride | ppbv | <0.020 | 0.020 | 8730807 |
| Chloroethane | ppbv | <0.30 | 0.30 | 8729217 |
| 1,3-Butadiene | ppbv | <0.50 | 0.50 | 8729217 |
| Trichlorofluoromethane (FREON 11) | ppbv | 0.26 | 0.20 | 8729217 |
| Ethanol (ethyl alcohol) | ppbv | 2.0 | 1.0 | 8729217 |
| Trichlorotrifluoroethane | ppbv | <0.15 | 0.15 | 8729217 |
| 2-propanol | ppbv | <1.0 | 1.0 | 8729217 |
| Methyl Ethyl Ketone (2-Butanone) | ppbv | 0.44 | 0.10 | 8730807 |
| Methyl Isobutyl Ketone | ppbv | <0.10 | 0.10 | 8730807 |
| Methyl Butyl Ketone (2-Hexanone) | ppbv | <1.0 | 1.0 | 8729217 |
| Methyl t-butyl ether (MTBE) | ppbv | <0.10 | 0.10 | 8730807 |
| Ethyl Acetate | ppbv | <1.0 | 1.0 | 8729217 |
| 1,1-Dichloroethylene | ppbv | <0.050 | 0.050 | 8730807 |
| cis-1,2-Dichloroethylene | ppbv | <0.050 | 0.050 | 8730807 |
| trans-1,2-Dichloroethylene | ppbv | <0.10 | 0.10 | 8730807 |
| Methylene Chloride(Dichloromethane) | ppbv | 0.161 | 0.050 | 8730807 |
| Chloroform | ppbv | <0.040 | 0.040 | 8730807 |
| Carbon Tetrachloride | ppbv | 0.089 | 0.050 | 8730807 |
| 1,1-Dichloroethane | ppbv | <0.050 | 0.050 | 8730807 |
| 1,2-Dichloroethane | ppbv | 0.020 | 0.010 | 8730807 |
| Ethylene Dibromide | ppbv | <0.010 | 0.010 | 8730807 |
| 1,1,1-Trichloroethane | ppbv | <0.050 | 0.050 | 8730807 |
| 1,1,2-Trichloroethane | ppbv | <0.012 | 0.012 | 8730807 |
| 1,1,2,2-Tetrachloroethane | ppbv | <0.0027 | 0.0027 | 8730807 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3G4917
Report Date: 2023/06/21

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JMF

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| **Bureau Veritas ID** | | WAP873 | | |
|---|---|---|---|---|
| **Sampling Date** | | 2023/06/05 | | |
| **COC Number** | | NA | | |
| | **UNITS** | **JUNE 4 SUMMA CAN** | **RDL** | **QC Batch** |
| cis-1,3-Dichloropropene | ppbv | <0.050 | 0.050 | 8730807 |
| trans-1,3-Dichloropropene | ppbv | <0.050 | 0.050 | 8730807 |
| 1,2-Dichloropropane | ppbv | <0.050 | 0.050 | 8730807 |
| Bromomethane | ppbv | <0.050 | 0.050 | 8730807 |
| Bromoform | ppbv | <0.10 | 0.10 | 8730807 |
| Bromodichloromethane | ppbv | <0.20 | 0.20 | 8729217 |
| Dibromochloromethane | ppbv | <0.20 | 0.20 | 8729217 |
| Trichloroethylene | ppbv | <0.050 | 0.050 | 8730807 |
| Tetrachloroethylene | ppbv | <0.050 | 0.050 | 8730807 |
| Benzene | ppbv | 0.062 | 0.050 | 8730807 |
| Toluene | ppbv | 0.146 | 0.050 | 8730807 |
| Ethylbenzene | ppbv | <0.050 | 0.050 | 8730807 |
| p+m-Xylene | ppbv | <0.10 | 0.10 | 8730807 |
| o-Xylene | ppbv | <0.050 | 0.050 | 8730807 |
| Styrene | ppbv | 0.056 | 0.050 | 8730807 |
| 4-ethyltoluene | ppbv | <0.50 | 0.50 | 8729217 |
| 1,3,5-Trimethylbenzene | ppbv | <0.50 | 0.50 | 8729217 |
| 1,2,4-Trimethylbenzene | ppbv | <0.50 | 0.50 | 8729217 |
| Chlorobenzene | ppbv | <0.050 | 0.050 | 8730807 |
| Benzyl chloride | ppbv | <0.50 | 0.50 | 8729217 |
| 1,3-Dichlorobenzene | ppbv | <0.40 | 0.40 | 8729217 |
| 1,4-Dichlorobenzene | ppbv | <0.050 | 0.050 | 8730807 |
| 1,2-Dichlorobenzene | ppbv | <0.050 | 0.050 | 8730807 |
| 1,2,4-Trichlorobenzene | ppbv | <0.10 | 0.10 | 8730807 |
| Hexachlorobutadiene | ppbv | <0.0047 | 0.0047 | 8730807 |
| Hexane | ppbv | <0.10 | 0.10 | 8730807 |
| Heptane | ppbv | <0.30 | 0.30 | 8729217 |
| Cyclohexane | ppbv | <0.20 | 0.20 | 8729217 |
| Tetrahydrofuran | ppbv | <0.40 | 0.40 | 8729217 |
| 1,4-Dioxane | ppbv | <1.0 | 1.0 | 8729217 |
| Naphthalene | ppbv | <0.10 | 0.10 | 8730807 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| **Bureau Veritas ID** | | WAP873 | | |
|---|---|---|---|---|
| **Sampling Date** | | 2023/06/05 | | |
| **COC Number** | | NA | | |
| | **UNITS** | **JUNE 4 SUMMA CAN** | **RDL** | **QC Batch** |
| Total Xylenes | ppbv | <0.15 | 0.15 | 8730807 |
| 1,1,1,2-Tetrachloroethane | ppbv | <0.021 | 0.021 | 8730807 |
| Vinyl Bromide | ppbv | <0.20 | 0.20 | 8729217 |
| Propene | ppbv | <0.50 | 0.50 | 8729217 |
| 2,2,4-Trimethylpentane | ppbv | <0.20 | 0.20 | 8729217 |
| Carbon Disulfide | ppbv | <0.50 | 0.50 | 8729217 |
| Vinyl Acetate | ppbv | <0.20 | 0.20 | 8729217 |
| **Surrogate Recovery (%)** | | | | |
| Bromochloromethane | % | 98 | N/A | 8730807 |
| D5-Chlorobenzene | % | 96 | N/A | 8730807 |
| Difluorobenzene | % | 95 | N/A | 8730807 |
| Bromochloromethane | % | 98 | N/A | 8729217 |
| D5-Chlorobenzene | % | 96 | N/A | 8729217 |
| Difluorobenzene | % | 95 | N/A | 8729217 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3G4917
Report Date: 2023/06/21

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JMF

## TEST SUMMARY

**Bureau Veritas ID:** WAP873
**Sample ID:** JUNE 4 SUMMA CAN
**Matrix:** Air

**Collected:** 2023/06/05
**Shipped:**
**Received:** 2023/06/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | PRES | 8730805 | N/A | 2023/06/15 | Ana Nunes |
| Volatile Organics in Air by GC/MS/SIM | GC/MS | 8730807 | N/A | 2023/06/15 | Ana Nunes |
| Volatile Organics in Air (TO-15) | GC/MS | 8729217 | N/A | 2023/06/15 | Ana Nunes |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8729217 | Bromochloromethane | 2023/06/15 | 97 | 60 - 140 | 108 | % | | |
| 8729217 | D5-Chlorobenzene | 2023/06/15 | 101 | 60 - 140 | 98 | % | | |
| 8729217 | Difluorobenzene | 2023/06/15 | 101 | 60 - 140 | 100 | % | | |
| 8730807 | Bromochloromethane | 2023/06/15 | 97 | 60 - 140 | 108 | % | | |
| 8730807 | D5-Chlorobenzene | 2023/06/15 | 101 | 60 - 140 | 98 | % | | |
| 8730807 | Difluorobenzene | 2023/06/15 | 101 | 60 - 140 | 100 | % | | |
| 8729217 | 1,2,4-Trimethylbenzene | 2023/06/15 | 87 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8729217 | 1,2-Dichlorotetrafluoroethane | 2023/06/15 | 89 | 70 - 130 | <0.17 | ppbv | NC (1) | 25 |
| 8729217 | 1,3,5-Trimethylbenzene | 2023/06/15 | 82 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8729217 | 1,3-Butadiene | 2023/06/15 | 93 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8729217 | 1,3-Dichlorobenzene | 2023/06/15 | 88 | 70 - 130 | <0.40 | ppbv | NC (1) | 25 |
| 8729217 | 1,4-Dioxane | 2023/06/15 | 88 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 8729217 | 2,2,4-Trimethylpentane | 2023/06/15 | 102 | 70 - 130 | <0.20 | ppbv | 0.53 (1) | 25 |
| 8729217 | 2-propanol | 2023/06/15 | 103 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 8729217 | 4-ethyltoluene | 2023/06/15 | 94 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8729217 | Benzyl chloride | 2023/06/15 | 107 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8729217 | Bromodichloromethane | 2023/06/15 | 88 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8729217 | Carbon Disulfide | 2023/06/15 | 98 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8729217 | Chloroethane | 2023/06/15 | 106 | 70 - 130 | <0.30 | ppbv | NC (1) | 25 |
| 8729217 | Chloromethane | 2023/06/15 | 96 | 70 - 130 | <0.30 | ppbv | 0.70 (1) | 25 |
| 8729217 | Cyclohexane | 2023/06/15 | 99 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8729217 | Dibromochloromethane | 2023/06/15 | 96 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8729217 | Dichlorodifluoromethane (FREON 12) | 2023/06/15 | 80 | 70 - 130 | <0.20 | ppbv | 0.66 (1) | 25 |
| 8729217 | Ethanol (ethyl alcohol) | 2023/06/15 | 106 | 70 - 130 | <1.0 | ppbv | 8.2 (1) | 25 |
| 8729217 | Ethyl Acetate | 2023/06/15 | 107 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 8729217 | Heptane | 2023/06/15 | 101 | 70 - 130 | <0.30 | ppbv | NC (1) | 25 |
| 8729217 | Methyl Butyl Ketone (2-Hexanone) | 2023/06/15 | 92 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 8729217 | Propene | 2023/06/15 | 98 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8729217 | Tetrahydrofuran | 2023/06/15 | 106 | 70 - 130 | <0.40 | ppbv | NC (1) | 25 |
| 8729217 | Trichlorofluoromethane (FREON 11) | 2023/06/15 | 92 | 70 - 130 | <0.20 | ppbv | 2.8 (1) | 25 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8729217 | Trichlorotrifluoroethane | 2023/06/15 | 102 | 70 - 130 | <0.15 | ppbv | NC (1) | 25 |
| 8729217 | Vinyl Acetate | 2023/06/15 | 105 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8729217 | Vinyl Bromide | 2023/06/15 | 90 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8730807 | 1,1,1,2-Tetrachloroethane | 2023/06/15 | 94 | 70 - 130 | <0.021 | ppbv | NC (1) | 25 |
| 8730807 | 1,1,1-Trichloroethane | 2023/06/15 | 89 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8730807 | 1,1,2,2-Tetrachloroethane | 2023/06/15 | 88 | 70 - 130 | <0.0027 | ppbv | NC (1) | 25 |
| 8730807 | 1,1,2-Trichloroethane | 2023/06/15 | 97 | 70 - 130 | <0.012 | ppbv | NC (1) | 25 |
| 8730807 | 1,1-Dichloroethane | 2023/06/15 | 95 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8730807 | 1,1-Dichloroethylene | 2023/06/15 | 89 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8730807 | 1,2,4-Trichlorobenzene | 2023/06/15 | 81 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8730807 | 1,2-Dichlorobenzene | 2023/06/15 | 84 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8730807 | 1,2-Dichloroethane | 2023/06/15 | 97 | 70 - 130 | <0.010 | ppbv | 3.3 (1) | 25 |
| 8730807 | 1,2-Dichloropropane | 2023/06/15 | 97 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8730807 | 1,4-Dichlorobenzene | 2023/06/15 | 89 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8730807 | 2-Propanone | 2023/06/15 | 114 | 70 - 130 | <0.10 | ppbv | NC (1) | N/A |
| 8730807 | Benzene | 2023/06/15 | 99 | 70 - 130 | <0.050 | ppbv | 0.47 (1) | 25 |
| 8730807 | Bromoform | 2023/06/15 | 95 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8730807 | Bromomethane | 2023/06/15 | 95 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8730807 | Carbon Tetrachloride | 2023/06/15 | 93 | 70 - 130 | <0.050 | ppbv | 3.7 (1) | 25 |
| 8730807 | Chlorobenzene | 2023/06/15 | 98 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8730807 | Chloroform | 2023/06/15 | 100 | 70 - 130 | <0.040 | ppbv | NC (1) | 25 |
| 8730807 | cis-1,2-Dichloroethylene | 2023/06/15 | 102 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8730807 | cis-1,3-Dichloropropene | 2023/06/15 | 100 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8730807 | Ethylbenzene | 2023/06/15 | 102 | 70 - 130 | <0.050 | ppbv | 0.87 (1) | 25 |
| 8730807 | Ethylene Dibromide | 2023/06/15 | 99 | 70 - 130 | <0.010 | ppbv | NC (1) | 25 |
| 8730807 | Hexachlorobutadiene | 2023/06/15 | 67 (2) | 70 - 130 | <0.0047 | ppbv | NC (1) | 25 |
| 8730807 | Hexane | 2023/06/15 | 101 | 70 - 130 | <0.10 | ppbv | 4.7 (1) | 25 |
| 8730807 | Methyl Ethyl Ketone (2-Butanone) | 2023/06/15 | 103 | 70 - 130 | <0.10 | ppbv | 1.7 (1) | 25 |
| 8730807 | Methyl Isobutyl Ketone | 2023/06/15 | 89 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8730807 | Methyl t-butyl ether (MTBE) | 2023/06/15 | 94 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8730807 | Methylene Chloride(Dichloromethane) | 2023/06/15 | 90 | 70 - 130 | <0.050 | ppbv | 0.58 (1) | 25 |
| 8730807 | Naphthalene | 2023/06/15 | 93 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8730807 | o-Xylene | 2023/06/15 | 89 | 70 - 130 | <0.050 | ppbv | 0.42 (1) | 25 |
| 8730807 | p+m-Xylene | 2023/06/15 | 97 | 70 - 130 | <0.10 | ppbv | 0.34 (1) | 25 |
| 8730807 | Styrene | 2023/06/15 | 89 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8730807 | Tetrachloroethylene | 2023/06/15 | 100 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8730807 | Toluene | 2023/06/15 | 101 | 70 - 130 | <0.050 | ppbv | 1.2 (1) | 25 |
| 8730807 | Total Xylenes | 2023/06/15 | 94 | 70 - 130 | <0.15 | ppbv | 0.11 (1) | 25 |
| 8730807 | trans-1,2-Dichloroethylene | 2023/06/15 | 98 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8730807 | trans-1,3-Dichloropropene | 2023/06/15 | 110 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8730807 | Trichloroethylene | 2023/06/15 | 102 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8730807 | Vinyl Chloride | 2023/06/15 | 99 | 70 - 130 | <0.020 | ppbv | NC (1) | 25 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Duplicate Parent ID

(2) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3G4917
Report Date: 2023/06/21

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JMF

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Melanie Mabini, Team Leader

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.



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CAM FCD-01302 /3

BUREAU VERITAS

6740 Campobello Rd
Mississauga Ontario ,L5N 2L8
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Phone: (905) 817-5700
Fax: (905) 817-5777

# Chain of Custody Form - Summa™ Canister

Page ____ of ____

**ANALYSIS REQUESTED**

| INVOICE INFORMATION | | REPORT INFORMATION | |
|---|---|---|---|
| Company Name: | | Company Name: | Kinross |
| Contact Name: | | Project Manager: | Jacob McFee |
| Address: | | Address: | 2 Industrial Park Road<br>Red Lake ON, CA, P0V 2M0 |
| E-mail: | | E-mail: | jacob.mcfee@kinross.com |
| Ph: | | Ph: | (807) 728-2185 |
| Sampled by: | Jacob McFee | | |

| Field Sample ID | Canister Serial # | Flow Regulator Serial # | Collection Date | START VACUUM (inches of Hg) | END VACUUM (inches of Hg) | SOIL VAPOUR | AMBIENT/INDOOR AIR | AMBIENT/COMMERCIAL/INDUSTRIAL | SUB-SLAB GAS | FULL LIST OF VOCs (reference TO15A) | BTEX/Aromatic/Aliphatic Hydrocarbon Fractions | BTEX/F1 (C6-C10) and F2 (C10-C16) | Selected VOC's - please specify | Other | | | | CANISTERS NOT USED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| June 4 Summa Can | SX2432 | FX1651 | 5-Jun | -28.5 | -8.5 | | X | | | X | | | | | | | | |

08-Jun-23 09:00
Gina Baybayan
C3G4917
BSU AIR-001

| TAT Requirement | | PROJECT INFORMATION | | REPORTING REQUIREMENTS | | |
|---|---|---|---|---|---|---|
| STD 10 Business day | ☑ | Project #: | | EDD | | ☑ |
| Rush 5 Business day * | ☐ | Name: | Kinross Project | Regulations | ON 153 | ☑ |
| Rush 2 Business day * | ☐ | PO #: | C026300307 | | ON 419 | ☑ |
| Rush Other * | ☐ | Bureau Veritas Quote #: | | | BC CSR | ☑ |
| | | Bureau Veritas Contact: | Cristina Bacchus | Other | | |
| * need approval from Bureau Veritas | | Task Order/Line Item | | | | |

**Notes**

*1) please indicate on chain of custody if your samples are soil vapour or ambient air*

*2) please list all canisters on the chain of custody even if unused*

**PROJECT SPECIFIC COMMENTS**

Client Signature: Jacob M Fee

Date/Time: June 5. 2023

Received by: Cristina Bacchus

Date/Time: 2023/06/08 09:00

**PLEASE RETURN ALL UNUSED EQUIPMENT**

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms*

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: NA

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/07/28**
Report #: R7739367
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3L3631**
**Received: 2023/07/19, 09:00**

Sample Matrix: Air
# Samples Received: 1

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | 1 | N/A | 2023/07/21 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air by GC/MS/SIM (1) | 1 | N/A | 2023/07/21 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air (TO-15) (2) | 1 | N/A | 2023/07/21 | BRL SOP-00304 | EPA TO-15 m |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCCFP, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: NA

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/07/28**
Report #: R7739367
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3L3631**

**Received: 2023/07/19, 09:00**

(2) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key

Cristina (Maria) Bacchus
Project Manager
28 Jul 2023 12:16:18

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3L3631
Report Date: 2023/07/28

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JMF

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| Bureau Veritas ID | | WKT404 | WKT404 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2023/07/12 | 2023/07/12 | | |
| COC Number | | NA | NA | | |
| | UNITS | JULY 12 BELL TOWERS SUMMA | JULY 12 BELL TOWERS SUMMA Lab-Dup | RDL | QC Batch |
| **Volatile Organics** | | | | | |
| Pressure on Receipt | psig | (-3.9) | N/A | N/A | 8804229 |
| 2-Propanone | ppbv | 3.15 | 3.16 | 0.12 | 8804225 |
| Dichlorodifluoromethane (FREON 12) | ppbv | 0.48 | 0.48 | 0.20 | 8804219 |
| 1,2-Dichlorotetrafluoroethane | ppbv | <0.17 | <0.17 | 0.17 | 8804219 |
| Chloromethane | ppbv | 0.53 | 0.53 | 0.30 | 8804219 |
| Vinyl Chloride | ppbv | <0.020 | <0.020 | 0.020 | 8804225 |
| Chloroethane | ppbv | <0.30 | <0.30 | 0.30 | 8804219 |
| 1,3-Butadiene | ppbv | <0.50 | <0.50 | 0.50 | 8804219 |
| Trichlorofluoromethane (FREON 11) | ppbv | 0.36 | 0.35 | 0.20 | 8804219 |
| Ethanol (ethyl alcohol) | ppbv | 1.0 | <1.0 | 1.0 | 8804219 |
| Trichlorotrifluoroethane | ppbv | <0.15 | <0.15 | 0.15 | 8804219 |
| 2-propanol | ppbv | <1.0 | <1.0 | 1.0 | 8804219 |
| Methyl Ethyl Ketone (2-Butanone) | ppbv | 0.24 | 0.23 | 0.10 | 8804225 |
| Methyl Isobutyl Ketone | ppbv | <0.10 | <0.10 | 0.10 | 8804225 |
| Methyl Butyl Ketone (2-Hexanone) | ppbv | <1.0 | <1.0 | 1.0 | 8804219 |
| Methyl t-butyl ether (MTBE) | ppbv | <0.10 | <0.10 | 0.10 | 8804225 |
| Ethyl Acetate | ppbv | <1.0 | <1.0 | 1.0 | 8804219 |
| 1,1-Dichloroethylene | ppbv | <0.050 | <0.050 | 0.050 | 8804225 |
| cis-1,2-Dichloroethylene | ppbv | <0.050 | <0.050 | 0.050 | 8804225 |
| trans-1,2-Dichloroethylene | ppbv | <0.10 | <0.10 | 0.10 | 8804225 |
| Methylene Chloride(Dichloromethane) | ppbv | 0.120 | 0.139 | 0.050 | 8804225 |
| Chloroform | ppbv | <0.040 | <0.040 | 0.040 | 8804225 |
| Carbon Tetrachloride | ppbv | 0.155 | 0.154 | 0.050 | 8804225 |
| 1,1-Dichloroethane | ppbv | <0.050 | <0.050 | 0.050 | 8804225 |
| 1,2-Dichloroethane | ppbv | 0.020 | 0.020 | 0.010 | 8804225 |
| Ethylene Dibromide | ppbv | <0.010 | <0.010 | 0.010 | 8804225 |
| 1,1,1-Trichloroethane | ppbv | <0.050 | <0.050 | 0.050 | 8804225 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| Bureau Veritas ID | | WKT404 | WKT404 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2023/07/12 | 2023/07/12 | | |
| COC Number | | NA | NA | | |
| | UNITS | JULY 12 BELL TOWERS SUMMA | JULY 12 BELL TOWERS SUMMA Lab-Dup | RDL | QC Batch |
| 1,1,2-Trichloroethane | ppbv | <0.012 | <0.012 | 0.012 | 8804225 |
| 1,1,2,2-Tetrachloroethane | ppbv | <0.0027 | <0.0027 | 0.0027 | 8804225 |
| cis-1,3-Dichloropropene | ppbv | <0.050 | <0.050 | 0.050 | 8804225 |
| trans-1,3-Dichloropropene | ppbv | <0.050 | <0.050 | 0.050 | 8804225 |
| 1,2-Dichloropropane | ppbv | <0.050 | <0.050 | 0.050 | 8804225 |
| Bromomethane | ppbv | <0.050 | <0.050 | 0.050 | 8804225 |
| Bromoform | ppbv | <0.10 | <0.10 | 0.10 | 8804225 |
| Bromodichloromethane | ppbv | <0.20 | <0.20 | 0.20 | 8804219 |
| Dibromochloromethane | ppbv | <0.20 | <0.20 | 0.20 | 8804219 |
| Trichloroethylene | ppbv | <0.050 | <0.050 | 0.050 | 8804225 |
| Tetrachloroethylene | ppbv | <0.050 | <0.050 | 0.050 | 8804225 |
| Benzene | ppbv | 0.079 | 0.082 | 0.050 | 8804225 |
| Toluene | ppbv | <0.050 | <0.050 | 0.050 | 8804225 |
| Ethylbenzene | ppbv | <0.050 | <0.050 | 0.050 | 8804225 |
| p+m-Xylene | ppbv | <0.10 | <0.10 | 0.10 | 8804225 |
| o-Xylene | ppbv | <0.050 | <0.050 | 0.050 | 8804225 |
| Styrene | ppbv | <0.050 | <0.050 | 0.050 | 8804225 |
| 4-ethyltoluene | ppbv | <0.50 | <0.50 | 0.50 | 8804219 |
| 1,3,5-Trimethylbenzene | ppbv | <0.50 | <0.50 | 0.50 | 8804219 |
| 1,2,4-Trimethylbenzene | ppbv | <0.50 | <0.50 | 0.50 | 8804219 |
| Chlorobenzene | ppbv | <0.050 | <0.050 | 0.050 | 8804225 |
| Benzyl chloride | ppbv | <0.50 | <0.50 | 0.50 | 8804219 |
| 1,3-Dichlorobenzene | ppbv | <0.40 | <0.40 | 0.40 | 8804219 |
| 1,4-Dichlorobenzene | ppbv | <0.050 | <0.050 | 0.050 | 8804225 |
| 1,2-Dichlorobenzene | ppbv | <0.050 | <0.050 | 0.050 | 8804225 |
| 1,2,4-Trichlorobenzene | ppbv | <0.10 | <0.10 | 0.10 | 8804225 |
| Hexachlorobutadiene | ppbv | <0.0047 | <0.0047 | 0.0047 | 8804225 |
| Hexane | ppbv | <0.10 | <0.10 | 0.10 | 8804225 |
| Heptane | ppbv | <0.30 | <0.30 | 0.30 | 8804219 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| **Bureau Veritas ID** | | WKT404 | WKT404 | | |
|---|---|---|---|---|---|
| **Sampling Date** | | 2023/07/12 | 2023/07/12 | | |
| **COC Number** | | NA | NA | | |
| | **UNITS** | **JULY 12 BELL TOWERS SUMMA** | **JULY 12 BELL TOWERS SUMMA Lab-Dup** | **RDL** | **QC Batch** |
| Cyclohexane | ppbv | <0.20 | <0.20 | 0.20 | 8804219 |
| Tetrahydrofuran | ppbv | <0.40 | <0.40 | 0.40 | 8804219 |
| 1,4-Dioxane | ppbv | <1.0 | <1.0 | 1.0 | 8804219 |
| Naphthalene | ppbv | <0.10 | <0.10 | 0.10 | 8804225 |
| Total Xylenes | ppbv | <0.15 | <0.15 | 0.15 | 8804225 |
| 1,1,1,2-Tetrachloroethane | ppbv | <0.021 | <0.021 | 0.021 | 8804225 |
| Vinyl Bromide | ppbv | <0.20 | <0.20 | 0.20 | 8804219 |
| Propene | ppbv | <0.50 | <0.50 | 0.50 | 8804219 |
| 2,2,4-Trimethylpentane | ppbv | <0.20 | <0.20 | 0.20 | 8804219 |
| Carbon Disulfide | ppbv | <0.50 | <0.50 | 0.50 | 8804219 |
| Vinyl Acetate | ppbv | <0.20 | <0.20 | 0.20 | 8804219 |
| **Surrogate Recovery (%)** | | | | | |
| Bromochloromethane | % | 93 | 92 | N/A | 8804225 |
| D5-Chlorobenzene | % | 81 | 79 | N/A | 8804225 |
| Difluorobenzene | % | 82 | 80 | N/A | 8804225 |
| Bromochloromethane | % | 93 | 92 | N/A | 8804219 |
| D5-Chlorobenzene | % | 81 | 79 | N/A | 8804219 |
| Difluorobenzene | % | 82 | 80 | N/A | 8804219 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3L3631
Report Date: 2023/07/28

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JMF

## TEST SUMMARY

**Bureau Veritas ID:** WKT404
**Sample ID:** JULY 12 BELL TOWERS SUMMA
**Matrix:** Air

**Collected:** 2023/07/12
**Shipped:**
**Received:** 2023/07/19

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | PRES | 8804229 | N/A | 2023/07/21 | Ana Nunes |
| Volatile Organics in Air by GC/MS/SIM | GC/MS | 8804225 | N/A | 2023/07/21 | Ana Nunes |
| Volatile Organics in Air (TO-15) | GC/MS | 8804219 | N/A | 2023/07/21 | Ana Nunes |

**Bureau Veritas ID:** WKT404 Dup
**Sample ID:** JULY 12 BELL TOWERS SUMMA
**Matrix:** Air

**Collected:** 2023/07/12
**Shipped:**
**Received:** 2023/07/19

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Volatile Organics in Air by GC/MS/SIM | GC/MS | 8804225 | N/A | 2023/07/21 | Ana Nunes |
| Volatile Organics in Air (TO-15) | GC/MS | 8804219 | N/A | 2023/07/21 | Ana Nunes |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8804219 | Bromochloromethane | 2023/07/21 | 102 | 60 - 140 | 105 | % | | |
| 8804219 | D5-Chlorobenzene | 2023/07/21 | 104 | 60 - 140 | 90 | % | | |
| 8804219 | Difluorobenzene | 2023/07/21 | 105 | 60 - 140 | 92 | % | | |
| 8804225 | Bromochloromethane | 2023/07/21 | 102 | 60 - 140 | 105 | % | | |
| 8804225 | D5-Chlorobenzene | 2023/07/21 | 104 | 60 - 140 | 90 | % | | |
| 8804225 | Difluorobenzene | 2023/07/21 | 105 | 60 - 140 | 92 | % | | |
| 8804219 | 1,2,4-Trimethylbenzene | 2023/07/21 | 110 | 70 - 130 | <0.50 | ppbv | NC (2) | 25 |
| 8804219 | 1,2-Dichlorotetrafluoroethane | 2023/07/21 | 97 | 70 - 130 | <0.17 | ppbv | NC (2) | 25 |
| 8804219 | 1,3,5-Trimethylbenzene | 2023/07/21 | 109 | 70 - 130 | <0.50 | ppbv | NC (2) | 25 |
| 8804219 | 1,3-Butadiene | 2023/07/21 | 100 | 70 - 130 | <0.50 | ppbv | NC (2) | 25 |
| 8804219 | 1,3-Dichlorobenzene | 2023/07/21 | 107 | 70 - 130 | <0.40 | ppbv | NC (2) | 25 |
| 8804219 | 1,4-Dioxane | 2023/07/21 | 112 | 70 - 130 | <1.0 | ppbv | NC (2) | 25 |
| 8804219 | 2,2,4-Trimethylpentane | 2023/07/21 | 101 | 70 - 130 | <0.20 | ppbv | NC (2) | 25 |
| 8804219 | 2-propanol | 2023/07/21 | 105 | 70 - 130 | <1.0 | ppbv | NC (2) | 25 |
| 8804219 | 4-ethyltoluene | 2023/07/21 | 112 | 70 - 130 | <0.50 | ppbv | NC (2) | 25 |
| 8804219 | Benzyl chloride | 2023/07/21 | 136 (1) | 70 - 130 | <0.50 | ppbv | NC (2) | 25 |
| 8804219 | Bromodichloromethane | 2023/07/21 | 97 | 70 - 130 | <0.20 | ppbv | NC (2) | 25 |
| 8804219 | Carbon Disulfide | 2023/07/21 | 93 | 70 - 130 | <0.50 | ppbv | NC (2) | 25 |
| 8804219 | Chloroethane | 2023/07/21 | 102 | 70 - 130 | <0.30 | ppbv | NC (2) | 25 |
| 8804219 | Chloromethane | 2023/07/21 | 98 | 70 - 130 | <0.30 | ppbv | 0.010 (2) | 25 |
| 8804219 | Cyclohexane | 2023/07/21 | 100 | 70 - 130 | <0.20 | ppbv | NC (2) | 25 |
| 8804219 | Dibromochloromethane | 2023/07/21 | 105 | 70 - 130 | <0.20 | ppbv | NC (2) | 25 |
| 8804219 | Dichlorodifluoromethane (FREON 12) | 2023/07/21 | 102 | 70 - 130 | <0.20 | ppbv | 0.51 (2) | 25 |
| 8804219 | Ethanol (ethyl alcohol) | 2023/07/21 | 117 | 70 - 130 | <1.0 | ppbv | 0.14 (2) | 25 |
| 8804219 | Ethyl Acetate | 2023/07/21 | 103 | 70 - 130 | <1.0 | ppbv | NC (2) | 25 |
| 8804219 | Heptane | 2023/07/21 | 104 | 70 - 130 | <0.30 | ppbv | NC (2) | 25 |
| 8804219 | Methyl Butyl Ketone (2-Hexanone) | 2023/07/21 | 107 | 70 - 130 | <1.0 | ppbv | NC (2) | 25 |
| 8804219 | Propene | 2023/07/21 | 92 | 70 - 130 | <0.50 | ppbv | NC (2) | 25 |
| 8804219 | Tetrahydrofuran | 2023/07/21 | 100 | 70 - 130 | <0.40 | ppbv | NC (2) | 25 |
| 8804219 | Trichlorofluoromethane (FREON 11) | 2023/07/21 | 106 | 70 - 130 | <0.20 | ppbv | 0.60 (2) | 25 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8804219 | Trichlorotrifluoroethane | 2023/07/21 | 104 | 70 - 130 | <0.15 | ppbv | NC (2) | 25 |
| 8804219 | Vinyl Acetate | 2023/07/21 | 102 | 70 - 130 | <0.20 | ppbv | NC (2) | 25 |
| 8804219 | Vinyl Bromide | 2023/07/21 | 93 | 70 - 130 | <0.20 | ppbv | NC (2) | 25 |
| 8804225 | 1,1,1,2-Tetrachloroethane | 2023/07/21 | 106 | 70 - 130 | <0.021 | ppbv | NC (2) | 25 |
| 8804225 | 1,1,1-Trichloroethane | 2023/07/21 | 103 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8804225 | 1,1,2,2-Tetrachloroethane | 2023/07/21 | 95 | 70 - 130 | <0.0027 | ppbv | NC (2) | 25 |
| 8804225 | 1,1,2-Trichloroethane | 2023/07/21 | 100 | 70 - 130 | <0.012 | ppbv | NC (2) | 25 |
| 8804225 | 1,1-Dichloroethane | 2023/07/21 | 93 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8804225 | 1,1-Dichloroethylene | 2023/07/21 | 92 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8804225 | 1,2,4-Trichlorobenzene | 2023/07/21 | 100 | 70 - 130 | <0.10 | ppbv | NC (2) | 25 |
| 8804225 | 1,2-Dichlorobenzene | 2023/07/21 | 103 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8804225 | 1,2-Dichloroethane | 2023/07/21 | 105 | 70 - 130 | <0.010 | ppbv | 0.61 (2) | 25 |
| 8804225 | 1,2-Dichloropropane | 2023/07/21 | 96 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8804225 | 1,4-Dichlorobenzene | 2023/07/21 | 112 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8804225 | 2-Propanone | 2023/07/21 | 121 | 70 - 130 | <0.12 | ppbv | NC (2) | N/A |
| 8804225 | Benzene | 2023/07/21 | 100 | 70 - 130 | <0.050 | ppbv | 3.6 (2) | 25 |
| 8804225 | Bromoform | 2023/07/21 | 110 | 70 - 130 | <0.10 | ppbv | NC (2) | 25 |
| 8804225 | Bromomethane | 2023/07/21 | 96 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8804225 | Carbon Tetrachloride | 2023/07/21 | 109 | 70 - 130 | <0.050 | ppbv | 0.47 (2) | 25 |
| 8804225 | Chlorobenzene | 2023/07/21 | 104 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8804225 | Chloroform | 2023/07/21 | 105 | 70 - 130 | <0.040 | ppbv | NC (2) | 25 |
| 8804225 | cis-1,2-Dichloroethylene | 2023/07/21 | 99 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8804225 | cis-1,3-Dichloropropene | 2023/07/21 | 104 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8804225 | Ethylbenzene | 2023/07/21 | 109 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8804225 | Ethylene Dibromide | 2023/07/21 | 104 | 70 - 130 | <0.010 | ppbv | NC (2) | 25 |
| 8804225 | Hexachlorobutadiene | 2023/07/21 | 114 | 70 - 130 | <0.0047 | ppbv | NC (2) | 25 |
| 8804225 | Hexane | 2023/07/21 | 95 | 70 - 130 | <0.10 | ppbv | NC (2) | 25 |
| 8804225 | Methyl Ethyl Ketone (2-Butanone) | 2023/07/21 | 103 | 70 - 130 | <0.10 | ppbv | 2.4 (2) | 25 |
| 8804225 | Methyl Isobutyl Ketone | 2023/07/21 | 100 | 70 - 130 | <0.10 | ppbv | NC (2) | 25 |
| 8804225 | Methyl t-butyl ether (MTBE) | 2023/07/21 | 91 | 70 - 130 | <0.10 | ppbv | NC (2) | 25 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8804225 | Methylene Chloride(Dichloromethane) | 2023/07/21 | 101 | 70 - 130 | <0.050 | ppbv | 15 (2) | 25 |
| 8804225 | Naphthalene | 2023/07/21 | 101 | 70 - 130 | <0.10 | ppbv | NC (2) | 25 |
| 8804225 | o-Xylene | 2023/07/21 | 104 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8804225 | p+m-Xylene | 2023/07/21 | 109 | 70 - 130 | <0.10 | ppbv | NC (2) | 25 |
| 8804225 | Styrene | 2023/07/21 | 108 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8804225 | Tetrachloroethylene | 2023/07/21 | 103 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8804225 | Toluene | 2023/07/21 | 103 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8804225 | Total Xylenes | 2023/07/21 | 108 | 70 - 130 | <0.15 | ppbv | NC (2) | 25 |
| 8804225 | trans-1,2-Dichloroethylene | 2023/07/21 | 95 | 70 - 130 | <0.10 | ppbv | NC (2) | 25 |
| 8804225 | trans-1,3-Dichloropropene | 2023/07/21 | 117 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8804225 | Trichloroethylene | 2023/07/21 | 104 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 8804225 | Vinyl Chloride | 2023/07/21 | 89 | 70 - 130 | <0.020 | ppbv | NC (2) | 25 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

(2) Duplicate Parent ID [WKT404-01]



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3L3631
Report Date: 2023/07/28

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JMF

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Melanie Mabini, Team Leader

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

CAM FCD-01302 /3

BUREAU VERITAS

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Mississauga Ontario ,L5N 2L8
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Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

# Chain of Custody Form - Summa™ Canister



| INVOICE INFORMATION | | REPORT INFORMATION | |
|---|---|---|---|
| Company Name: | | Company Name: | Kinross |
| Contact Name: | | Project Manager: | Jacob McFee |
| Address: | | Address: | 2 Industrial Park Road |
| | | | Red Lake ON, CA, P0V 2M0 |
| E-mail: | | E-mail: | jacob.mcfee@kinross.com |
| Ph: | | Ph: | (807) 728-2185 |
| Sampled by: | Jacob McFee | | |

**ANALYSIS REQUESTED**

| Field Sample ID | Canister Serial # | Flow Regulator Serial # | Collection Date | START VACUUM (inches of Hg) | END VACUUM (inches of Hg) | SOIL VAPOUR | AMBIENT/INDOOR AIR | AMBIENT/COMMERCIAL/INDUSTRIAL | SUB-SLAB GAS | FULL LIST OF VOCs (reference TO15A) | BTEX/Aromatic/Aliphatic Hydrocarbon Fractions | BTEX/F1 (C6-C10) and F2 (C10-C16) | Selected VOC's - please specify | Other | | | | CANISTERS NOT USED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| July 12 Bell Towers Summa | SX1807 | FX1408 | 12-Jul | -29 | -6.5 | | X | | | X | | | | | | | | |
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19-Jul-23 09:00
Gina Baybayan
C3L3631
WKK AIR-001

**TAT Requirement**

| | |
|---|---|
| STD 10 Business day | ☑ |
| Rush 5 Business day * | ☐ |
| Rush 2 Business day * | ☐ |
| Rush Other * | ☐ |

* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
Bureau Veritas Quote #:
Bureau Veritas Contact: Cristina Bacchus
Task Order/Line Item

**REPORTING REQUIREMENTS**

| | | |
|---|---|---|
| EDD | | ☑ |
| Regulations | ON 153 | ☑ |
| | ON 419 | ☑ |
| | BC CSR | ☑ |
| Other | | |

**Notes**

*1) please indicate on chain of custody if your samples are soil vapour or ambient air*
*2) please list all canisters on the chain of custody even if unused*

**PROJECT SPECIFIC COMMENTS**

Client Signature: Jacob McFee
Date/Time: July14 2023

Received by: Rawa Rawandeep Kaur Kuhar
Date/Time: 2023/07/19 9:50

**PLEASE RETURN ALL UNUSED EQUIPMENT**

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms*

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: NA

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/07/28**
Report #: R7739367
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3L3631**
**Received: 2023/07/19, 09:00**

Sample Matrix: Air
# Samples Received: 1

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | 1 | N/A | 2023/07/21 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air by GC/MS/SIM (1) | 1 | N/A | 2023/07/21 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air (TO-15) (2) | 1 | N/A | 2023/07/21 | BRL SOP-00304 | EPA TO-15 m |

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

(2) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key

Cristina (Maria) Bacchus
Project Manager
28 Jul 2023 12:16:30

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

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This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C3L3631
Report Date: 2023/07/28

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JMF

## RESULTS OF ANALYSES OF AIR

| **Bureau Veritas ID** | | WKT404 | |
|---|---|---|---|
| **Sampling Date** | | 2023/07/12 | |
| **COC Number** | | NA | |
| | **UNITS** | **JULY 12 BELL TOWERS SUMMA** | **QC Batch** |
| **Volatile Organics** | | | |
| Pressure on Receipt | psig | (-3.9) | 8804229 |
| QC Batch = Quality Control Batch | | | |



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## VOLATILE ORGANICS BY GC/MS (AIR)

| Bureau Veritas ID | | WKT404 | | | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2023/07/12 | | | | |
| COC Number | | NA | | | | |
| | UNITS | JULY 12 BELL TOWERS SUMMA | RDL | ug/m3 | DL (ug/m3) | QC Batch |
| **Volatile Organics** | | | | | | |
| 2-Propanone | ppbv | 3.15 | 0.12 | 7.48 | 0.285 | 8804225 |
| Dichlorodifluoromethane (FREON 12) | ppbv | 0.48 | 0.20 | 2.36 | 0.989 | 8804219 |
| 1,2-Dichlorotetrafluoroethane | ppbv | <0.17 | 0.17 | <1.19 | 1.19 | 8804219 |
| Chloromethane | ppbv | 0.53 | 0.30 | 1.09 | 0.620 | 8804219 |
| Vinyl Chloride | ppbv | <0.020 | 0.020 | <0.0511 | 0.0511 | 8804225 |
| Chloroethane | ppbv | <0.30 | 0.30 | <0.792 | 0.792 | 8804219 |
| 1,3-Butadiene | ppbv | <0.50 | 0.50 | <1.11 | 1.11 | 8804219 |
| Trichlorofluoromethane (FREON 11) | ppbv | 0.36 | 0.20 | 2.00 | 1.12 | 8804219 |
| Ethanol (ethyl alcohol) | ppbv | 1.0 | 1.0 | 1.89 | 1.88 | 8804219 |
| Trichlorotrifluoroethane | ppbv | <0.15 | 0.15 | <1.15 | 1.15 | 8804219 |
| 2-propanol | ppbv | <1.0 | 1.0 | <2.46 | 2.46 | 8804219 |
| Methyl Ethyl Ketone (2-Butanone) | ppbv | 0.24 | 0.10 | 0.701 | 0.295 | 8804225 |
| Methyl Isobutyl Ketone | ppbv | <0.10 | 0.10 | <0.410 | 0.410 | 8804225 |
| Methyl Butyl Ketone (2-Hexanone) | ppbv | <1.0 | 1.0 | <4.10 | 4.10 | 8804219 |
| Methyl t-butyl ether (MTBE) | ppbv | <0.10 | 0.10 | <0.361 | 0.361 | 8804225 |
| Ethyl Acetate | ppbv | <1.0 | 1.0 | <3.60 | 3.60 | 8804219 |
| 1,1-Dichloroethylene | ppbv | <0.050 | 0.050 | <0.198 | 0.198 | 8804225 |
| cis-1,2-Dichloroethylene | ppbv | <0.050 | 0.050 | <0.198 | 0.198 | 8804225 |
| trans-1,2-Dichloroethylene | ppbv | <0.10 | 0.10 | <0.396 | 0.396 | 8804225 |
| Methylene Chloride(Dichloromethane) | ppbv | 0.120 | 0.050 | 0.416 | 0.174 | 8804225 |
| Chloroform | ppbv | <0.040 | 0.040 | <0.195 | 0.195 | 8804225 |
| Carbon Tetrachloride | ppbv | 0.155 | 0.050 | 0.974 | 0.315 | 8804225 |
| 1,1-Dichloroethane | ppbv | <0.050 | 0.050 | <0.202 | 0.202 | 8804225 |
| 1,2-Dichloroethane | ppbv | 0.020 | 0.010 | 0.0828 | 0.0405 | 8804225 |
| Ethylene Dibromide | ppbv | <0.010 | 0.010 | <0.0768 | 0.0768 | 8804225 |
| 1,1,1-Trichloroethane | ppbv | <0.050 | 0.050 | <0.273 | 0.273 | 8804225 |
| 1,1,2-Trichloroethane | ppbv | <0.012 | 0.012 | <0.0655 | 0.0655 | 8804225 |
| 1,1,2,2-Tetrachloroethane | ppbv | <0.0027 | 0.0027 | <0.0185 | 0.0185 | 8804225 |
| cis-1,3-Dichloropropene | ppbv | <0.050 | 0.050 | <0.227 | 0.227 | 8804225 |
| trans-1,3-Dichloropropene | ppbv | <0.050 | 0.050 | <0.227 | 0.227 | 8804225 |
| 1,2-Dichloropropane | ppbv | <0.050 | 0.050 | <0.231 | 0.231 | 8804225 |
| Bromomethane | ppbv | <0.050 | 0.050 | <0.194 | 0.194 | 8804225 |
| Bromoform | ppbv | <0.10 | 0.10 | <1.03 | 1.03 | 8804225 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## VOLATILE ORGANICS BY GC/MS (AIR)

| Bureau Veritas ID | | WKT404 | | | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2023/07/12 | | | | |
| COC Number | | NA | | | | |
| | UNITS | JULY 12 BELL TOWERS SUMMA | RDL | ug/m3 | DL (ug/m3) | QC Batch |
| Bromodichloromethane | ppbv | <0.20 | 0.20 | <1.34 | 1.34 | 8804219 |
| Dibromochloromethane | ppbv | <0.20 | 0.20 | <1.70 | 1.70 | 8804219 |
| Trichloroethylene | ppbv | <0.050 | 0.050 | <0.269 | 0.269 | 8804225 |
| Tetrachloroethylene | ppbv | <0.050 | 0.050 | <0.339 | 0.339 | 8804225 |
| Benzene | ppbv | 0.079 | 0.050 | 0.251 | 0.160 | 8804225 |
| Toluene | ppbv | <0.050 | 0.050 | <0.188 | 0.188 | 8804225 |
| Ethylbenzene | ppbv | <0.050 | 0.050 | <0.217 | 0.217 | 8804225 |
| p+m-Xylene | ppbv | <0.10 | 0.10 | <0.434 | 0.434 | 8804225 |
| o-Xylene | ppbv | <0.050 | 0.050 | <0.217 | 0.217 | 8804225 |
| Styrene | ppbv | <0.050 | 0.050 | <0.213 | 0.213 | 8804225 |
| 4-ethyltoluene | ppbv | <0.50 | 0.50 | <2.46 | 2.46 | 8804219 |
| 1,3,5-Trimethylbenzene | ppbv | <0.50 | 0.50 | <2.45 | 2.45 | 8804219 |
| 1,2,4-Trimethylbenzene | ppbv | <0.50 | 0.50 | <2.45 | 2.45 | 8804219 |
| Chlorobenzene | ppbv | <0.050 | 0.050 | <0.230 | 0.230 | 8804225 |
| Benzyl chloride | ppbv | <0.50 | 0.50 | <2.59 | 2.59 | 8804219 |
| 1,3-Dichlorobenzene | ppbv | <0.40 | 0.40 | <2.40 | 2.40 | 8804219 |
| 1,4-Dichlorobenzene | ppbv | <0.050 | 0.050 | <0.301 | 0.301 | 8804225 |
| 1,2-Dichlorobenzene | ppbv | <0.050 | 0.050 | <0.301 | 0.301 | 8804225 |
| 1,2,4-Trichlorobenzene | ppbv | <0.10 | 0.10 | <0.742 | 0.742 | 8804225 |
| Hexachlorobutadiene | ppbv | <0.0047 | 0.0047 | <0.0501 | 0.0501 | 8804225 |
| Hexane | ppbv | <0.10 | 0.10 | <0.352 | 0.352 | 8804225 |
| Heptane | ppbv | <0.30 | 0.30 | <1.23 | 1.23 | 8804219 |
| Cyclohexane | ppbv | <0.20 | 0.20 | <0.688 | 0.688 | 8804219 |
| Tetrahydrofuran | ppbv | <0.40 | 0.40 | <1.18 | 1.18 | 8804219 |
| 1,4-Dioxane | ppbv | <1.0 | 1.0 | <3.60 | 3.60 | 8804219 |
| Naphthalene | ppbv | <0.10 | 0.10 | <0.524 | 0.524 | 8804225 |
| Total Xylenes | ppbv | <0.15 | 0.15 | <0.651 | 0.651 | 8804225 |
| 1,1,1,2-Tetrachloroethane | ppbv | <0.021 | 0.021 | <0.144 | 0.144 | 8804225 |
| Vinyl Bromide | ppbv | <0.20 | 0.20 | <0.875 | 0.875 | 8804219 |
| Propene | ppbv | <0.50 | 0.50 | <0.861 | 0.861 | 8804219 |
| 2,2,4-Trimethylpentane | ppbv | <0.20 | 0.20 | <0.934 | 0.934 | 8804219 |
| Carbon Disulfide | ppbv | <0.50 | 0.50 | <1.56 | 1.56 | 8804219 |
| Vinyl Acetate | ppbv | <0.20 | 0.20 | <0.704 | 0.704 | 8804219 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## VOLATILE ORGANICS BY GC/MS (AIR)

| **Bureau Veritas ID** | | WKT404 | | | | |
|---|---|---|---|---|---|---|
| **Sampling Date** | | 2023/07/12 | | | | |
| **COC Number** | | NA | | | | |
| | **UNITS** | **JULY 12 BELL TOWERS SUMMA** | **RDL** | **ug/m3** | **DL (ug/m3)** | **QC Batch** |
| **Surrogate Recovery (%)** | | | | | | |
| Bromochloromethane | % | 93 | | N/A | N/A | 8804225 |
| D5-Chlorobenzene | % | 81 | | N/A | N/A | 8804225 |
| Difluorobenzene | % | 82 | | N/A | N/A | 8804225 |
| Bromochloromethane | % | 93 | | N/A | N/A | 8804219 |
| D5-Chlorobenzene | % | 81 | | N/A | N/A | 8804219 |
| Difluorobenzene | % | 82 | | N/A | N/A | 8804219 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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## GENERAL COMMENTS

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 8804219 | ANE | Spiked Blank | Bromochloromethane | 2023/07/21 | | 102 | % | 60 - 140 |
| | | | D5-Chlorobenzene | 2023/07/21 | | 104 | % | 60 - 140 |
| | | | Difluorobenzene | 2023/07/21 | | 105 | % | 60 - 140 |
| | | | Dichlorodifluoromethane (FREON 12) | 2023/07/21 | | 102 | % | 70 - 130 |
| | | | 1,2-Dichlorotetrafluoroethane | 2023/07/21 | | 97 | % | 70 - 130 |
| | | | Chloromethane | 2023/07/21 | | 98 | % | 70 - 130 |
| | | | Chloroethane | 2023/07/21 | | 102 | % | 70 - 130 |
| | | | 1,3-Butadiene | 2023/07/21 | | 100 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2023/07/21 | | 106 | % | 70 - 130 |
| | | | Ethanol (ethyl alcohol) | 2023/07/21 | | 117 | % | 70 - 130 |
| | | | Trichlorotrifluoroethane | 2023/07/21 | | 104 | % | 70 - 130 |
| | | | 2-propanol | 2023/07/21 | | 105 | % | 70 - 130 |
| | | | Methyl Butyl Ketone (2-Hexanone) | 2023/07/21 | | 107 | % | 70 - 130 |
| | | | Ethyl Acetate | 2023/07/21 | | 103 | % | 70 - 130 |
| | | | Bromodichloromethane | 2023/07/21 | | 97 | % | 70 - 130 |
| | | | Dibromochloromethane | 2023/07/21 | | 105 | % | 70 - 130 |
| | | | 4-ethyltoluene | 2023/07/21 | | 112 | % | 70 - 130 |
| | | | 1,3,5-Trimethylbenzene | 2023/07/21 | | 109 | % | 70 - 130 |
| | | | 1,2,4-Trimethylbenzene | 2023/07/21 | | 110 | % | 70 - 130 |
| | | | Benzyl chloride | 2023/07/21 | | 136 (1) | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2023/07/21 | | 107 | % | 70 - 130 |
| | | | Heptane | 2023/07/21 | | 104 | % | 70 - 130 |
| | | | Cyclohexane | 2023/07/21 | | 100 | % | 70 - 130 |
| | | | Tetrahydrofuran | 2023/07/21 | | 100 | % | 70 - 130 |
| | | | 1,4-Dioxane | 2023/07/21 | | 112 | % | 70 - 130 |
| | | | Vinyl Bromide | 2023/07/21 | | 93 | % | 70 - 130 |
| | | | Propene | 2023/07/21 | | 92 | % | 70 - 130 |
| | | | 2,2,4-Trimethylpentane | 2023/07/21 | | 101 | % | 70 - 130 |
| | | | Carbon Disulfide | 2023/07/21 | | 93 | % | 70 - 130 |
| | | | Vinyl Acetate | 2023/07/21 | | 102 | % | 70 - 130 |
| 8804219 | ANE | Method Blank | Bromochloromethane | 2023/07/21 | | 105 | % | 60 - 140 |
| | | | D5-Chlorobenzene | 2023/07/21 | | 90 | % | 60 - 140 |
| | | | Difluorobenzene | 2023/07/21 | | 92 | % | 60 - 140 |
| | | | Dichlorodifluoromethane (FREON 12) | 2023/07/21 | <0.20 | | ppbv | |
| | | | 1,2-Dichlorotetrafluoroethane | 2023/07/21 | <0.17 | | ppbv | |
| | | | Chloromethane | 2023/07/21 | <0.30 | | ppbv | |
| | | | Chloroethane | 2023/07/21 | <0.30 | | ppbv | |
| | | | 1,3-Butadiene | 2023/07/21 | <0.50 | | ppbv | |
| | | | Trichlorofluoromethane (FREON 11) | 2023/07/21 | <0.20 | | ppbv | |
| | | | Ethanol (ethyl alcohol) | 2023/07/21 | <1.0 | | ppbv | |
| | | | Trichlorotrifluoroethane | 2023/07/21 | <0.15 | | ppbv | |
| | | | 2-propanol | 2023/07/21 | <1.0 | | ppbv | |
| | | | Methyl Butyl Ketone (2-Hexanone) | 2023/07/21 | <1.0 | | ppbv | |
| | | | Ethyl Acetate | 2023/07/21 | <1.0 | | ppbv | |
| | | | Bromodichloromethane | 2023/07/21 | <0.20 | | ppbv | |
| | | | Dibromochloromethane | 2023/07/21 | <0.20 | | ppbv | |
| | | | 4-ethyltoluene | 2023/07/21 | <0.50 | | ppbv | |
| | | | 1,3,5-Trimethylbenzene | 2023/07/21 | <0.50 | | ppbv | |
| | | | 1,2,4-Trimethylbenzene | 2023/07/21 | <0.50 | | ppbv | |
| | | | Benzyl chloride | 2023/07/21 | <0.50 | | ppbv | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | 1,3-Dichlorobenzene | 2023/07/21 | <0.40 | | ppbv | |
| | | | Heptane | 2023/07/21 | <0.30 | | ppbv | |
| | | | Cyclohexane | 2023/07/21 | <0.20 | | ppbv | |
| | | | Tetrahydrofuran | 2023/07/21 | <0.40 | | ppbv | |
| | | | 1,4-Dioxane | 2023/07/21 | <1.0 | | ppbv | |
| | | | Vinyl Bromide | 2023/07/21 | <0.20 | | ppbv | |
| | | | Propene | 2023/07/21 | <0.50 | | ppbv | |
| | | | 2,2,4-Trimethylpentane | 2023/07/21 | <0.20 | | ppbv | |
| | | | Carbon Disulfide | 2023/07/21 | <0.50 | | ppbv | |
| | | | Vinyl Acetate | 2023/07/21 | <0.20 | | ppbv | |
| 8804219 | ANE | RPD [WKT404-01] | Dichlorodifluoromethane (FREON 12) | 2023/07/21 | 0.51 | | % | 25 |
| | | | 1,2-Dichlorotetrafluoroethane | 2023/07/21 | NC | | % | 25 |
| | | | Chloromethane | 2023/07/21 | 0.010 | | % | 25 |
| | | | Chloroethane | 2023/07/21 | NC | | % | 25 |
| | | | 1,3-Butadiene | 2023/07/21 | NC | | % | 25 |
| | | | Trichlorofluoromethane (FREON 11) | 2023/07/21 | 0.60 | | % | 25 |
| | | | Ethanol (ethyl alcohol) | 2023/07/21 | 0.14 | | % | 25 |
| | | | Trichlorotrifluoroethane | 2023/07/21 | NC | | % | 25 |
| | | | 2-propanol | 2023/07/21 | NC | | % | 25 |
| | | | Methyl Butyl Ketone (2-Hexanone) | 2023/07/21 | NC | | % | 25 |
| | | | Ethyl Acetate | 2023/07/21 | NC | | % | 25 |
| | | | Bromodichloromethane | 2023/07/21 | NC | | % | 25 |
| | | | Dibromochloromethane | 2023/07/21 | NC | | % | 25 |
| | | | 4-ethyltoluene | 2023/07/21 | NC | | % | 25 |
| | | | 1,3,5-Trimethylbenzene | 2023/07/21 | NC | | % | 25 |
| | | | 1,2,4-Trimethylbenzene | 2023/07/21 | NC | | % | 25 |
| | | | Benzyl chloride | 2023/07/21 | NC | | % | 25 |
| | | | 1,3-Dichlorobenzene | 2023/07/21 | NC | | % | 25 |
| | | | Heptane | 2023/07/21 | NC | | % | 25 |
| | | | Cyclohexane | 2023/07/21 | NC | | % | 25 |
| | | | Tetrahydrofuran | 2023/07/21 | NC | | % | 25 |
| | | | 1,4-Dioxane | 2023/07/21 | NC | | % | 25 |
| | | | Vinyl Bromide | 2023/07/21 | NC | | % | 25 |
| | | | Propene | 2023/07/21 | NC | | % | 25 |
| | | | 2,2,4-Trimethylpentane | 2023/07/21 | NC | | % | 25 |
| | | | Carbon Disulfide | 2023/07/21 | NC | | % | 25 |
| | | | Vinyl Acetate | 2023/07/21 | NC | | % | 25 |
| 8804225 | ANE | Spiked Blank | 2-Propanone | 2023/07/21 | | 121 | % | 70 - 130 |
| | | | Bromochloromethane | 2023/07/21 | | 102 | % | 60 - 140 |
| | | | D5-Chlorobenzene | 2023/07/21 | | 104 | % | 60 - 140 |
| | | | Difluorobenzene | 2023/07/21 | | 105 | % | 60 - 140 |
| | | | Vinyl Chloride | 2023/07/21 | | 89 | % | 70 - 130 |
| | | | Methyl Ethyl Ketone (2-Butanone) | 2023/07/21 | | 103 | % | 70 - 130 |
| | | | Methyl Isobutyl Ketone | 2023/07/21 | | 100 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2023/07/21 | | 91 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2023/07/21 | | 92 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2023/07/21 | | 99 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2023/07/21 | | 95 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2023/07/21 | | 101 | % | 70 - 130 |
| | | | Chloroform | 2023/07/21 | | 105 | % | 70 - 130 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Carbon Tetrachloride | 2023/07/21 | | 109 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2023/07/21 | | 93 | % | 70 - 130 |
| | | | 1,2-Dichloroethane | 2023/07/21 | | 105 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2023/07/21 | | 104 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2023/07/21 | | 103 | % | 70 - 130 |
| | | | 1,1,2-Trichloroethane | 2023/07/21 | | 100 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2023/07/21 | | 95 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2023/07/21 | | 104 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2023/07/21 | | 117 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2023/07/21 | | 96 | % | 70 - 130 |
| | | | Bromomethane | 2023/07/21 | | 96 | % | 70 - 130 |
| | | | Bromoform | 2023/07/21 | | 110 | % | 70 - 130 |
| | | | Trichloroethylene | 2023/07/21 | | 104 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2023/07/21 | | 103 | % | 70 - 130 |
| | | | Benzene | 2023/07/21 | | 100 | % | 70 - 130 |
| | | | Toluene | 2023/07/21 | | 103 | % | 70 - 130 |
| | | | Ethylbenzene | 2023/07/21 | | 109 | % | 70 - 130 |
| | | | p+m-Xylene | 2023/07/21 | | 109 | % | 70 - 130 |
| | | | o-Xylene | 2023/07/21 | | 104 | % | 70 - 130 |
| | | | Styrene | 2023/07/21 | | 108 | % | 70 - 130 |
| | | | Chlorobenzene | 2023/07/21 | | 104 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2023/07/21 | | 112 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2023/07/21 | | 103 | % | 70 - 130 |
| | | | 1,2,4-Trichlorobenzene | 2023/07/21 | | 100 | % | 70 - 130 |
| | | | Hexachlorobutadiene | 2023/07/21 | | 114 | % | 70 - 130 |
| | | | Hexane | 2023/07/21 | | 95 | % | 70 - 130 |
| | | | Naphthalene | 2023/07/21 | | 101 | % | 70 - 130 |
| | | | Total Xylenes | 2023/07/21 | | 108 | % | 70 - 130 |
| | | | 1,1,1,2-Tetrachloroethane | 2023/07/21 | | 106 | % | 70 - 130 |
| 8804225 | ANE | Method Blank | 2-Propanone | 2023/07/21 | <0.12 | | ppbv | |
| | | | Bromochloromethane | 2023/07/21 | | 105 | % | 60 - 140 |
| | | | D5-Chlorobenzene | 2023/07/21 | | 90 | % | 60 - 140 |
| | | | Difluorobenzene | 2023/07/21 | | 92 | % | 60 - 140 |
| | | | Vinyl Chloride | 2023/07/21 | <0.020 | | ppbv | |
| | | | Methyl Ethyl Ketone (2-Butanone) | 2023/07/21 | <0.10 | | ppbv | |
| | | | Methyl Isobutyl Ketone | 2023/07/21 | <0.10 | | ppbv | |
| | | | Methyl t-butyl ether (MTBE) | 2023/07/21 | <0.10 | | ppbv | |
| | | | 1,1-Dichloroethylene | 2023/07/21 | <0.050 | | ppbv | |
| | | | cis-1,2-Dichloroethylene | 2023/07/21 | <0.050 | | ppbv | |
| | | | trans-1,2-Dichloroethylene | 2023/07/21 | <0.10 | | ppbv | |
| | | | Methylene Chloride(Dichloromethane) | 2023/07/21 | <0.050 | | ppbv | |
| | | | Chloroform | 2023/07/21 | <0.040 | | ppbv | |
| | | | Carbon Tetrachloride | 2023/07/21 | <0.050 | | ppbv | |
| | | | 1,1-Dichloroethane | 2023/07/21 | <0.050 | | ppbv | |
| | | | 1,2-Dichloroethane | 2023/07/21 | <0.010 | | ppbv | |
| | | | Ethylene Dibromide | 2023/07/21 | <0.010 | | ppbv | |
| | | | 1,1,1-Trichloroethane | 2023/07/21 | <0.050 | | ppbv | |
| | | | 1,1,2-Trichloroethane | 2023/07/21 | <0.012 | | ppbv | |
| | | | 1,1,2,2-Tetrachloroethane | 2023/07/21 | <0.0027 | | ppbv | |
| | | | cis-1,3-Dichloropropene | 2023/07/21 | <0.050 | | ppbv | |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | trans-1,3-Dichloropropene | 2023/07/21 | <0.050 | | ppbv | |
| | | | 1,2-Dichloropropane | 2023/07/21 | <0.050 | | ppbv | |
| | | | Bromomethane | 2023/07/21 | <0.050 | | ppbv | |
| | | | Bromoform | 2023/07/21 | <0.10 | | ppbv | |
| | | | Trichloroethylene | 2023/07/21 | <0.050 | | ppbv | |
| | | | Tetrachloroethylene | 2023/07/21 | <0.050 | | ppbv | |
| | | | Benzene | 2023/07/21 | <0.050 | | ppbv | |
| | | | Toluene | 2023/07/21 | <0.050 | | ppbv | |
| | | | Ethylbenzene | 2023/07/21 | <0.050 | | ppbv | |
| | | | p+m-Xylene | 2023/07/21 | <0.10 | | ppbv | |
| | | | o-Xylene | 2023/07/21 | <0.050 | | ppbv | |
| | | | Styrene | 2023/07/21 | <0.050 | | ppbv | |
| | | | Chlorobenzene | 2023/07/21 | <0.050 | | ppbv | |
| | | | 1,4-Dichlorobenzene | 2023/07/21 | <0.050 | | ppbv | |
| | | | 1,2-Dichlorobenzene | 2023/07/21 | <0.050 | | ppbv | |
| | | | 1,2,4-Trichlorobenzene | 2023/07/21 | <0.10 | | ppbv | |
| | | | Hexachlorobutadiene | 2023/07/21 | <0.0047 | | ppbv | |
| | | | Hexane | 2023/07/21 | <0.10 | | ppbv | |
| | | | Naphthalene | 2023/07/21 | <0.10 | | ppbv | |
| | | | Total Xylenes | 2023/07/21 | <0.15 | | ppbv | |
| | | | 1,1,1,2-Tetrachloroethane | 2023/07/21 | <0.021 | | ppbv | |
| 8804225 | ANE | RPD [WKT404-01] | 2-Propanone | 2023/07/21 | NC | | % | N/A |
| | | | Vinyl Chloride | 2023/07/21 | NC | | % | 25 |
| | | | Methyl Ethyl Ketone (2-Butanone) | 2023/07/21 | 2.4 | | % | 25 |
| | | | Methyl Isobutyl Ketone | 2023/07/21 | NC | | % | 25 |
| | | | Methyl t-butyl ether (MTBE) | 2023/07/21 | NC | | % | 25 |
| | | | 1,1-Dichloroethylene | 2023/07/21 | NC | | % | 25 |
| | | | cis-1,2-Dichloroethylene | 2023/07/21 | NC | | % | 25 |
| | | | trans-1,2-Dichloroethylene | 2023/07/21 | NC | | % | 25 |
| | | | Methylene Chloride(Dichloromethane) | 2023/07/21 | 15 | | % | 25 |
| | | | Chloroform | 2023/07/21 | NC | | % | 25 |
| | | | Carbon Tetrachloride | 2023/07/21 | 0.47 | | % | 25 |
| | | | 1,1-Dichloroethane | 2023/07/21 | NC | | % | 25 |
| | | | 1,2-Dichloroethane | 2023/07/21 | 0.61 | | % | 25 |
| | | | Ethylene Dibromide | 2023/07/21 | NC | | % | 25 |
| | | | 1,1,1-Trichloroethane | 2023/07/21 | NC | | % | 25 |
| | | | 1,1,2-Trichloroethane | 2023/07/21 | NC | | % | 25 |
| | | | 1,1,2,2-Tetrachloroethane | 2023/07/21 | NC | | % | 25 |
| | | | cis-1,3-Dichloropropene | 2023/07/21 | NC | | % | 25 |
| | | | trans-1,3-Dichloropropene | 2023/07/21 | NC | | % | 25 |
| | | | 1,2-Dichloropropane | 2023/07/21 | NC | | % | 25 |
| | | | Bromomethane | 2023/07/21 | NC | | % | 25 |
| | | | Bromoform | 2023/07/21 | NC | | % | 25 |
| | | | Trichloroethylene | 2023/07/21 | NC | | % | 25 |
| | | | Tetrachloroethylene | 2023/07/21 | NC | | % | 25 |
| | | | Benzene | 2023/07/21 | 3.6 | | % | 25 |
| | | | Toluene | 2023/07/21 | NC | | % | 25 |
| | | | Ethylbenzene | 2023/07/21 | NC | | % | 25 |
| | | | p+m-Xylene | 2023/07/21 | NC | | % | 25 |
| | | | o-Xylene | 2023/07/21 | NC | | % | 25 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Styrene | 2023/07/21 | NC | | % | 25 |
| | | | Chlorobenzene | 2023/07/21 | NC | | % | 25 |
| | | | 1,4-Dichlorobenzene | 2023/07/21 | NC | | % | 25 |
| | | | 1,2-Dichlorobenzene | 2023/07/21 | NC | | % | 25 |
| | | | 1,2,4-Trichlorobenzene | 2023/07/21 | NC | | % | 25 |
| | | | Hexachlorobutadiene | 2023/07/21 | NC | | % | 25 |
| | | | Hexane | 2023/07/21 | NC | | % | 25 |
| | | | Naphthalene | 2023/07/21 | NC | | % | 25 |
| | | | Total Xylenes | 2023/07/21 | NC | | % | 25 |
| | | | 1,1,1,2-Tetrachloroethane | 2023/07/21 | NC | | % | 25 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3L3631
Report Date: 2023/07/28

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JMF

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Melanie Mabini, Team Leader

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: NA

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/08/30**
Report #: R7788932
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3P0559**
**Received: 2023/08/18, 08:15**

Sample Matrix: Air
# Samples Received: 1

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | 1 | N/A | 2023/08/24 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air by GC/MS/SIM (1) | 1 | N/A | 2023/08/24 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air (TO-15) (2) | 1 | N/A | 2023/08/24 | BRL SOP-00304 | EPA TO-15 m |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCCFP, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: NA

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2023/08/30**
Report #: R7788932
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3P0559**

**Received: 2023/08/18, 08:15**

(2) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key

Cristina (Maria) Bacchus
Project Manager
30 Aug 2023 12:06:43

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3P0559
Report Date: 2023/08/30

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JMF

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| **Bureau Veritas ID** | | WSN667 | | |
|---|---|---|---|---|
| **Sampling Date** | | 2023/08/10 | | |
| **COC Number** | | NA | | |
| | **UNITS** | **AUGUST 9TH SUMMA CANISTER** | **RDL** | **QC Batch** |
| **Volatile Organics** | | | | |
| Pressure on Receipt | psig | (-2.3) | N/A | 8873935 |
| 2-Propanone | ppbv | 1.86 | 0.14 | 8873934 |
| Dichlorodifluoromethane (FREON 12) | ppbv | 0.53 | 0.20 | 8873929 |
| 1,2-Dichlorotetrafluoroethane | ppbv | <0.17 | 0.17 | 8873929 |
| Chloromethane | ppbv | 0.46 | 0.30 | 8873929 |
| Vinyl Chloride | ppbv | <0.020 | 0.020 | 8873934 |
| Chloroethane | ppbv | <0.30 | 0.30 | 8873929 |
| 1,3-Butadiene | ppbv | <0.50 | 0.50 | 8873929 |
| Trichlorofluoromethane (FREON 11) | ppbv | 0.29 | 0.20 | 8873929 |
| Ethanol (ethyl alcohol) | ppbv | <1.0 | 1.0 | 8873929 |
| Trichlorotrifluoroethane | ppbv | <0.15 | 0.15 | 8873929 |
| 2-propanol | ppbv | <1.0 | 1.0 | 8873929 |
| Methyl Ethyl Ketone (2-Butanone) | ppbv | 0.12 | 0.10 | 8873934 |
| Methyl Isobutyl Ketone | ppbv | <0.10 | 0.10 | 8873934 |
| Methyl Butyl Ketone (2-Hexanone) | ppbv | <1.0 | 1.0 | 8873929 |
| Methyl t-butyl ether (MTBE) | ppbv | <0.10 | 0.10 | 8873934 |
| Ethyl Acetate | ppbv | <1.0 | 1.0 | 8873929 |
| 1,1-Dichloroethylene | ppbv | <0.050 | 0.050 | 8873934 |
| cis-1,2-Dichloroethylene | ppbv | <0.050 | 0.050 | 8873934 |
| trans-1,2-Dichloroethylene | ppbv | <0.10 | 0.10 | 8873934 |
| Methylene Chloride(Dichloromethane) | ppbv | 0.236 | 0.050 | 8873934 |
| Chloroform | ppbv | <0.040 | 0.040 | 8873934 |
| Carbon Tetrachloride | ppbv | 0.128 | 0.050 | 8873934 |
| 1,1-Dichloroethane | ppbv | <0.050 | 0.050 | 8873934 |
| 1,2-Dichloroethane | ppbv | 0.014 | 0.010 | 8873934 |
| Ethylene Dibromide | ppbv | <0.010 | 0.010 | 8873934 |
| 1,1,1-Trichloroethane | ppbv | <0.050 | 0.050 | 8873934 |
| 1,1,2-Trichloroethane | ppbv | <0.012 | 0.012 | 8873934 |
| 1,1,2,2-Tetrachloroethane | ppbv | <0.0027 | 0.0027 | 8873934 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| **Bureau Veritas ID** | | WSN667 | | |
|---|---|---|---|---|
| **Sampling Date** | | 2023/08/10 | | |
| **COC Number** | | NA | | |
| | **UNITS** | **AUGUST 9TH SUMMA CANISTER** | **RDL** | **QC Batch** |
| cis-1,3-Dichloropropene | ppbv | <0.050 | 0.050 | 8873934 |
| trans-1,3-Dichloropropene | ppbv | <0.050 | 0.050 | 8873934 |
| 1,2-Dichloropropane | ppbv | <0.050 | 0.050 | 8873934 |
| Bromomethane | ppbv | <0.050 | 0.050 | 8873934 |
| Bromoform | ppbv | <0.10 | 0.10 | 8873934 |
| Bromodichloromethane | ppbv | <0.20 | 0.20 | 8873929 |
| Dibromochloromethane | ppbv | <0.20 | 0.20 | 8873929 |
| Trichloroethylene | ppbv | <0.050 | 0.050 | 8873934 |
| Tetrachloroethylene | ppbv | <0.050 | 0.050 | 8873934 |
| Benzene | ppbv | 0.091 | 0.050 | 8873934 |
| Toluene | ppbv | <0.050 | 0.050 | 8873934 |
| Ethylbenzene | ppbv | <0.050 | 0.050 | 8873934 |
| p+m-Xylene | ppbv | <0.10 | 0.10 | 8873934 |
| o-Xylene | ppbv | <0.050 | 0.050 | 8873934 |
| Styrene | ppbv | <0.050 | 0.050 | 8873934 |
| 4-ethyltoluene | ppbv | <0.50 | 0.50 | 8873929 |
| 1,3,5-Trimethylbenzene | ppbv | <0.50 | 0.50 | 8873929 |
| 1,2,4-Trimethylbenzene | ppbv | <0.50 | 0.50 | 8873929 |
| Chlorobenzene | ppbv | <0.050 | 0.050 | 8873934 |
| Benzyl chloride | ppbv | <0.50 | 0.50 | 8873929 |
| 1,3-Dichlorobenzene | ppbv | <0.40 | 0.40 | 8873929 |
| 1,4-Dichlorobenzene | ppbv | <0.050 | 0.050 | 8873934 |
| 1,2-Dichlorobenzene | ppbv | <0.050 | 0.050 | 8873934 |
| 1,2,4-Trichlorobenzene | ppbv | <0.10 | 0.10 | 8873934 |
| Hexachlorobutadiene | ppbv | <0.0047 | 0.0047 | 8873934 |
| Hexane | ppbv | 0.15 | 0.10 | 8873934 |
| Heptane | ppbv | <0.30 | 0.30 | 8873929 |
| Cyclohexane | ppbv | <0.20 | 0.20 | 8873929 |
| Tetrahydrofuran | ppbv | <0.40 | 0.40 | 8873929 |
| 1,4-Dioxane | ppbv | <1.0 | 1.0 | 8873929 |
| Naphthalene | ppbv | <0.10 | 0.10 | 8873934 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch





Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JMF

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| **Bureau Veritas ID** | | WSN667 | | |
|---|---|---|---|---|
| **Sampling Date** | | 2023/08/10 | | |
| **COC Number** | | NA | | |
| | **UNITS** | **AUGUST 9TH SUMMA CANISTER** | **RDL** | **QC Batch** |
| Total Xylenes | ppbv | <0.15 | 0.15 | 8873934 |
| 1,1,1,2-Tetrachloroethane | ppbv | <0.021 | 0.021 | 8873934 |
| Vinyl Bromide | ppbv | <0.20 | 0.20 | 8873929 |
| Propene | ppbv | <0.50 | 0.50 | 8873929 |
| 2,2,4-Trimethylpentane | ppbv | <0.20 | 0.20 | 8873929 |
| Carbon Disulfide | ppbv | <0.50 | 0.50 | 8873929 |
| Vinyl Acetate | ppbv | <0.20 | 0.20 | 8873929 |
| **Surrogate Recovery (%)** | | | | |
| Bromochloromethane | % | 95 | N/A | 8873934 |
| D5-Chlorobenzene | % | 84 | N/A | 8873934 |
| Difluorobenzene | % | 84 | N/A | 8873934 |
| Bromochloromethane | % | 95 | N/A | 8873929 |
| D5-Chlorobenzene | % | 84 | N/A | 8873929 |
| Difluorobenzene | % | 84 | N/A | 8873929 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable


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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3P0559
Report Date: 2023/08/30

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JMF

## TEST SUMMARY

**Bureau Veritas ID:** WSN667
**Sample ID:** AUGUST 9TH SUMMA CANISTER
**Matrix:** Air

**Collected:** 2023/08/10
**Shipped:**
**Received:** 2023/08/18

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | PRES | 8873935 | N/A | 2023/08/24 | Ana Nunes |
| Volatile Organics in Air by GC/MS/SIM | GC/MS | 8873934 | N/A | 2023/08/24 | Ana Nunes |
| Volatile Organics in Air (TO-15) | GC/MS | 8873929 | N/A | 2023/08/24 | Ana Nunes |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8873929 | Bromochloromethane | 2023/08/24 | 101 | 60 - 140 | 105 | % | | |
| 8873929 | D5-Chlorobenzene | 2023/08/24 | 105 | 60 - 140 | 95 | % | | |
| 8873929 | Difluorobenzene | 2023/08/24 | 106 | 60 - 140 | 97 | % | | |
| 8873934 | Bromochloromethane | 2023/08/24 | 101 | 60 - 140 | 105 | % | | |
| 8873934 | D5-Chlorobenzene | 2023/08/24 | 105 | 60 - 140 | 95 | % | | |
| 8873934 | Difluorobenzene | 2023/08/24 | 106 | 60 - 140 | 97 | % | | |
| 8873929 | 1,2,4-Trimethylbenzene | 2023/08/24 | 98 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8873929 | 1,2-Dichlorotetrafluoroethane | 2023/08/24 | 92 | 70 - 130 | <0.17 | ppbv | NC (1) | 25 |
| 8873929 | 1,3,5-Trimethylbenzene | 2023/08/24 | 96 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8873929 | 1,3-Butadiene | 2023/08/24 | 101 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8873929 | 1,3-Dichlorobenzene | 2023/08/24 | 94 | 70 - 130 | <0.40 | ppbv | NC (1) | 25 |
| 8873929 | 1,4-Dioxane | 2023/08/24 | 94 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 8873929 | 2,2,4-Trimethylpentane | 2023/08/24 | 100 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8873929 | 2-propanol | 2023/08/24 | 93 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 8873929 | 4-ethyltoluene | 2023/08/24 | 100 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8873929 | Benzyl chloride | 2023/08/24 | 122 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8873929 | Bromodichloromethane | 2023/08/24 | 90 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8873929 | Carbon Disulfide | 2023/08/24 | 97 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8873929 | Chloroethane | 2023/08/24 | 105 | 70 - 130 | <0.30 | ppbv | NC (1) | 25 |
| 8873929 | Chloromethane | 2023/08/24 | 100 | 70 - 130 | <0.30 | ppbv | 1.2 (1) | 25 |
| 8873929 | Cyclohexane | 2023/08/24 | 101 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8873929 | Dibromochloromethane | 2023/08/24 | 97 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8873929 | Dichlorodifluoromethane (FREON 12) | 2023/08/24 | 90 | 70 - 130 | <0.20 | ppbv | 3.2 (1) | 25 |
| 8873929 | Ethanol (ethyl alcohol) | 2023/08/24 | 85 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 8873929 | Ethyl Acetate | 2023/08/24 | 103 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 8873929 | Heptane | 2023/08/24 | 103 | 70 - 130 | <0.30 | ppbv | NC (1) | 25 |
| 8873929 | Methyl Butyl Ketone (2-Hexanone) | 2023/08/24 | 97 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 8873929 | Propene | 2023/08/24 | 121 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8873929 | Tetrahydrofuran | 2023/08/24 | 101 | 70 - 130 | <0.40 | ppbv | NC (1) | 25 |
| 8873929 | Trichlorofluoromethane (FREON 11) | 2023/08/24 | 94 | 70 - 130 | <0.20 | ppbv | 3.0 (1) | 25 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8873929 | Trichlorotrifluoroethane | 2023/08/24 | 92 | 70 - 130 | <0.15 | ppbv | NC (1) | 25 |
| 8873929 | Vinyl Acetate | 2023/08/24 | 105 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8873929 | Vinyl Bromide | 2023/08/24 | 89 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8873934 | 1,1,1,2-Tetrachloroethane | 2023/08/24 | 100 | 70 - 130 | <0.021 | ppbv | NC (1) | 25 |
| 8873934 | 1,1,1-Trichloroethane | 2023/08/24 | 96 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8873934 | 1,1,2,2-Tetrachloroethane | 2023/08/24 | 92 | 70 - 130 | <0.0027 | ppbv | NC (1) | 25 |
| 8873934 | 1,1,2-Trichloroethane | 2023/08/24 | 98 | 70 - 130 | <0.012 | ppbv | NC (1) | 25 |
| 8873934 | 1,1-Dichloroethane | 2023/08/24 | 95 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8873934 | 1,1-Dichloroethylene | 2023/08/24 | 83 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8873934 | 1,2,4-Trichlorobenzene | 2023/08/24 | 95 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8873934 | 1,2-Dichlorobenzene | 2023/08/24 | 91 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8873934 | 1,2-Dichloroethane | 2023/08/24 | 97 | 70 - 130 | <0.010 | ppbv | 1.6 (1) | 25 |
| 8873934 | 1,2-Dichloropropane | 2023/08/24 | 100 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8873934 | 1,4-Dichlorobenzene | 2023/08/24 | 96 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8873934 | 2-Propanone | 2023/08/24 | 94 | 70 - 130 | <0.14 | ppbv | NC (1) | N/A |
| 8873934 | Benzene | 2023/08/24 | 102 | 70 - 130 | <0.050 | ppbv | 1.0 (1) | 25 |
| 8873934 | Bromoform | 2023/08/24 | 99 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8873934 | Bromomethane | 2023/08/24 | 92 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8873934 | Carbon Tetrachloride | 2023/08/24 | 102 | 70 - 130 | <0.050 | ppbv | 2.1 (1) | 25 |
| 8873934 | Chlorobenzene | 2023/08/24 | 97 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8873934 | Chloroform | 2023/08/24 | 100 | 70 - 130 | <0.040 | ppbv | NC (1) | 25 |
| 8873934 | cis-1,2-Dichloroethylene | 2023/08/24 | 98 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8873934 | cis-1,3-Dichloropropene | 2023/08/24 | 103 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8873934 | Ethylbenzene | 2023/08/24 | 101 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8873934 | Ethylene Dibromide | 2023/08/24 | 101 | 70 - 130 | <0.010 | ppbv | NC (1) | 25 |
| 8873934 | Hexachlorobutadiene | 2023/08/24 | 83 | 70 - 130 | <0.0047 | ppbv | NC (1) | 25 |
| 8873934 | Hexane | 2023/08/24 | 98 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8873934 | Methyl Ethyl Ketone (2-Butanone) | 2023/08/24 | 99 | 70 - 130 | <0.10 | ppbv | 2.8 (1) | 25 |
| 8873934 | Methyl Isobutyl Ketone | 2023/08/24 | 95 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8873934 | Methyl t-butyl ether (MTBE) | 2023/08/24 | 87 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8873934 | Methylene Chloride(Dichloromethane) | 2023/08/24 | 93 | 70 - 130 | <0.050 | ppbv | 1.9 (1) | 25 |
| 8873934 | Naphthalene | 2023/08/24 | 110 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8873934 | o-Xylene | 2023/08/24 | 93 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8873934 | p+m-Xylene | 2023/08/24 | 99 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8873934 | Styrene | 2023/08/24 | 99 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8873934 | Tetrachloroethylene | 2023/08/24 | 98 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8873934 | Toluene | 2023/08/24 | 101 | 70 - 130 | <0.050 | ppbv | 5.3 (1) | 25 |
| 8873934 | Total Xylenes | 2023/08/24 | 97 | 70 - 130 | <0.15 | ppbv | NC (1) | 25 |
| 8873934 | trans-1,2-Dichloroethylene | 2023/08/24 | 95 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8873934 | trans-1,3-Dichloropropene | 2023/08/24 | 116 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8873934 | Trichloroethylene | 2023/08/24 | 102 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8873934 | Vinyl Chloride | 2023/08/24 | 99 | 70 - 130 | <0.020 | ppbv | NC (1) | 25 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Duplicate Parent ID



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3P0559
Report Date: 2023/08/30

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JMF

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Melanie Mabini, Team Leader

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.


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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

CAM FCD-01302 /3

BUREAU VERITAS

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Mississauga Ontario ,L5N 2L8
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Phone: (905) 817-5700
Fax: (905) 817-5777

# Chain of Custody Form - Summa™ Canister

Page ____ of ____

**INVOICE INFORMATION**

**Company Name:**
**Contact Name:**
**Address:**
**E-mail:**
**Ph:**
**Sampled by:** Jacob McFee

**REPORT INFORMATION**

**Company Name:** Kinross
**Project Manager:** Jacob McFee
**Address:** 2 Industrial Park Road
Red Lake ON, CA, P0V 2M0
**E-mail:** jacob.mcfee@kinross.com
**Ph:** (807) 728-2185

**ANALYSIS REQUESTED**

| Field Sample ID | Canister Serial # | Flow Regulator Serial # | Collection Date | START VACUUM (inches of Hg) | END VACUUM (inches of Hg) | SOIL VAPOUR | AMBIENT/INDOOR AIR | AMBIENT/COMMERCIAL/INDUSTRIAL | SUB-SLAB GAS | FULL LIST OF VOCs (reference TO15A) | BTEX/Aromatic/Aliphatic Hydrocarbon Fractions | BTEX/F1 (C6-C10) and F2 (C10-C16) | Selected VOC's - please specify | Other | | | | CANISTERS NOT USED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| August 9th Summa Cannister | SX2425 | FX1673 | 10-Aug | -27 | -3.5 | | X | | | X | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
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18-Aug-23 08:15
Gina Baybayan
C3P0559
WKK AIR-001

**TAT Requirement**

| | |
|---|---|
| STD 10 Business day | ☑ |
| Rush 5 Business day * | ☐ |
| Rush 2 Business day * | ☐ |
| Rush Other * | ☐ |

* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
Bureau Veritas Quote #:
Bureau Veritas Contact: Cristina Bacchus
Task Order/Line Item

**REPORTING REQUIREMENTS**

| | | |
|---|---|---|
| EDD | | ☑ |
| Regulations | ON 153 | ☑ |
| | ON 419 | ☑ |
| | BC CSR | ☑ |
| Other | | |

**Notes**

*1) please indicate on chain of custody if your samples are soil vapour or ambient air*
*2) please list all canisters on the chain of custody even if unused*

**PROJECT SPECIFIC COMMENTS**

*Sampled for a period of 27 hours.*

Client Signature: Jacob McFee
Date/Time: Aug 14 2023

Received by: Rawandeep Kaur Kullar
Date/Time: 2023/08/18 8:15

**PLEASE RETURN ALL UNUSED EQUIPMENT**

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms*

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: na

**Attention: Ryan Fletcher**

WSP E & I Canada Limited
Oakville - Standing Offer
2020 Winston Park Drive
Suite 600
Oakville , ON
CANADA L6H 6X7

**Report Date: 2023/10/16**
Report #: R7862262
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3U3577**
**Received: 2023/10/02, 09:00**

Sample Matrix: Air
# Samples Received: 1

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | 1 | N/A | 2023/10/04 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air by GC/MS/SIM (1) | 1 | N/A | 2023/10/04 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air (TO-15) (2) | 1 | N/A | 2023/10/04 | BRL SOP-00304 | EPA TO-15 m |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCCFP, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: na

**Attention: Ryan Fletcher**

WSP E & I Canada Limited
Oakville - Standing Offer
2020 Winston Park Drive
Suite 600
Oakville , ON
CANADA L6H 6X7

**Report Date: 2023/10/16**
Report #: R7862262
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3U3577**
**Received: 2023/10/02, 09:00**

(2) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key

AUTHORIZED REPORT
RAPPORT AUTORISÉ

Bureau Veritas
16 Oct 2023 11:00:13

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

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This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C3U3577
Report Date: 2023/10/16

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JMF

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| **Bureau Veritas ID** | | XDT617 | XDT617 | | |
|---|---|---|---|---|---|
| **Sampling Date** | | 2023/09/06 | 2023/09/06 | | |
| **COC Number** | | na | na | | |
| | **UNITS** | **SEPTEMBER 6TH SUMA** | **SEPTEMBER 6TH SUMA Lab-Dup** | **RDL** | **QC Batch** |
| **Volatile Organics** | | | | | |
| Pressure on Receipt | psig | (-4.5) | N/A | N/A | 8959381 |
| 2-Propanone | ppbv | 1.29 | 1.29 | 0.38 | 8959380 |
| Dichlorodifluoromethane (FREON 12) | ppbv | 0.37 | 0.38 | 0.20 | 8959375 |
| 1,2-Dichlorotetrafluoroethane | ppbv | <0.17 | <0.17 | 0.17 | 8959375 |
| Chloromethane | ppbv | 0.37 | 0.37 | 0.30 | 8959375 |
| Vinyl Chloride | ppbv | <0.020 | <0.020 | 0.020 | 8959380 |
| Chloroethane | ppbv | <0.30 | <0.30 | 0.30 | 8959375 |
| 1,3-Butadiene | ppbv | <0.50 | <0.50 | 0.50 | 8959375 |
| Trichlorofluoromethane (FREON 11) | ppbv | 0.29 | 0.29 | 0.20 | 8959375 |
| Ethanol (ethyl alcohol) | ppbv | <1.0 | <1.0 | 1.0 | 8959375 |
| Trichlorotrifluoroethane | ppbv | <0.15 | <0.15 | 0.15 | 8959375 |
| 2-propanol | ppbv | <1.0 | <1.0 | 1.0 | 8959375 |
| Methyl Ethyl Ketone (2-Butanone) | ppbv | 0.13 | 0.13 | 0.10 | 8959380 |
| Methyl Isobutyl Ketone | ppbv | <0.10 | <0.10 | 0.10 | 8959380 |
| Methyl Butyl Ketone (2-Hexanone) | ppbv | <1.0 | <1.0 | 1.0 | 8959375 |
| Methyl t-butyl ether (MTBE) | ppbv | <0.10 | <0.10 | 0.10 | 8959380 |
| Ethyl Acetate | ppbv | <1.0 | <1.0 | 1.0 | 8959375 |
| 1,1-Dichloroethylene | ppbv | <0.050 | <0.050 | 0.050 | 8959380 |
| cis-1,2-Dichloroethylene | ppbv | <0.050 | <0.050 | 0.050 | 8959380 |
| trans-1,2-Dichloroethylene | ppbv | <0.10 | <0.10 | 0.10 | 8959380 |
| Methylene Chloride(Dichloromethane) | ppbv | 0.090 | 0.097 | 0.050 | 8959380 |
| Chloroform | ppbv | <0.040 | <0.040 | 0.040 | 8959380 |
| Carbon Tetrachloride | ppbv | 0.120 | 0.126 | 0.050 | 8959380 |
| 1,1-Dichloroethane | ppbv | <0.050 | <0.050 | 0.050 | 8959380 |
| 1,2-Dichloroethane | ppbv | 0.014 | 0.013 | 0.010 | 8959380 |
| Ethylene Dibromide | ppbv | <0.010 | <0.010 | 0.010 | 8959380 |
| 1,1,1-Trichloroethane | ppbv | <0.050 | <0.050 | 0.050 | 8959380 |
| 1,1,2-Trichloroethane | ppbv | <0.012 | <0.012 | 0.012 | 8959380 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3U3577
Report Date: 2023/10/16

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JMF

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| Bureau Veritas ID | | XDT617 | XDT617 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2023/09/06 | 2023/09/06 | | |
| COC Number | | na | na | | |
| | UNITS | SEPTEMBER 6TH SUMA | SEPTEMBER 6TH SUMA Lab-Dup | RDL | QC Batch |
| 1,1,2,2-Tetrachloroethane | ppbv | <0.0027 | <0.0027 | 0.0027 | 8959380 |
| cis-1,3-Dichloropropene | ppbv | <0.050 | <0.050 | 0.050 | 8959380 |
| trans-1,3-Dichloropropene | ppbv | <0.050 | <0.050 | 0.050 | 8959380 |
| 1,2-Dichloropropane | ppbv | <0.050 | <0.050 | 0.050 | 8959380 |
| Bromomethane | ppbv | <0.050 | <0.050 | 0.050 | 8959380 |
| Bromoform | ppbv | <0.10 | <0.10 | 0.10 | 8959380 |
| Bromodichloromethane | ppbv | <0.20 | <0.20 | 0.20 | 8959375 |
| Dibromochloromethane | ppbv | <0.20 | <0.20 | 0.20 | 8959375 |
| Trichloroethylene | ppbv | <0.050 | <0.050 | 0.050 | 8959380 |
| Tetrachloroethylene | ppbv | <0.050 | <0.050 | 0.050 | 8959380 |
| Benzene | ppbv | 0.184 | 0.196 | 0.050 | 8959380 |
| Toluene | ppbv | <0.050 | <0.050 | 0.050 | 8959380 |
| Ethylbenzene | ppbv | <0.050 | <0.050 | 0.050 | 8959380 |
| p+m-Xylene | ppbv | <0.10 | <0.10 | 0.10 | 8959380 |
| o-Xylene | ppbv | <0.050 | <0.050 | 0.050 | 8959380 |
| Styrene | ppbv | <0.050 | <0.050 | 0.050 | 8959380 |
| 4-ethyltoluene | ppbv | <0.50 | <0.50 | 0.50 | 8959375 |
| 1,3,5-Trimethylbenzene | ppbv | <0.50 | <0.50 | 0.50 | 8959375 |
| 1,2,4-Trimethylbenzene | ppbv | <0.50 | <0.50 | 0.50 | 8959375 |
| Chlorobenzene | ppbv | <0.050 | <0.050 | 0.050 | 8959380 |
| Benzyl chloride | ppbv | <0.50 | <0.50 | 0.50 | 8959375 |
| 1,3-Dichlorobenzene | ppbv | <0.40 | <0.40 | 0.40 | 8959375 |
| 1,4-Dichlorobenzene | ppbv | <0.050 | <0.050 | 0.050 | 8959380 |
| 1,2-Dichlorobenzene | ppbv | <0.050 | <0.050 | 0.050 | 8959380 |
| 1,2,4-Trichlorobenzene | ppbv | <0.10 | <0.10 | 0.10 | 8959380 |
| Hexachlorobutadiene | ppbv | <0.0047 | <0.0047 | 0.0047 | 8959380 |
| Hexane | ppbv | <0.10 | <0.10 | 0.10 | 8959380 |
| Heptane | ppbv | <0.30 | <0.30 | 0.30 | 8959375 |
| Cyclohexane | ppbv | <0.20 | <0.20 | 0.20 | 8959375 |
| Tetrahydrofuran | ppbv | <0.40 | <0.40 | 0.40 | 8959375 |

RDL = Reportable Detection Limit
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## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| **Bureau Veritas ID** | | XDT617 | XDT617 | | |
|---|---|---|---|---|---|
| **Sampling Date** | | 2023/09/06 | 2023/09/06 | | |
| **COC Number** | | na | na | | |
| | **UNITS** | **SEPTEMBER 6TH SUMA** | **SEPTEMBER 6TH SUMA Lab-Dup** | **RDL** | **QC Batch** |
| 1,4-Dioxane | ppbv | <1.0 | <1.0 | 1.0 | 8959375 |
| Naphthalene | ppbv | <0.10 | <0.10 | 0.10 | 8959380 |
| Total Xylenes | ppbv | <0.15 | <0.15 | 0.15 | 8959380 |
| 1,1,1,2-Tetrachloroethane | ppbv | <0.021 | <0.021 | 0.021 | 8959380 |
| Vinyl Bromide | ppbv | <0.20 | <0.20 | 0.20 | 8959375 |
| Propene | ppbv | <0.50 | <0.50 | 0.50 | 8959375 |
| 2,2,4-Trimethylpentane | ppbv | <0.20 | <0.20 | 0.20 | 8959375 |
| Carbon Disulfide | ppbv | <0.50 | <0.50 | 0.50 | 8959375 |
| Vinyl Acetate | ppbv | <0.20 | <0.20 | 0.20 | 8959375 |
| **Surrogate Recovery (%)** | | | | | |
| Bromochloromethane | % | 100 | 99 | N/A | 8959380 |
| D5-Chlorobenzene | % | 85 | 80 | N/A | 8959380 |
| Difluorobenzene | % | 86 | 81 | N/A | 8959380 |
| Bromochloromethane | % | 100 | 99 | N/A | 8959375 |
| D5-Chlorobenzene | % | 85 | 80 | N/A | 8959375 |
| Difluorobenzene | % | 86 | 81 | N/A | 8959375 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable



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Bureau Veritas Job #: C3U3577
Report Date: 2023/10/16

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JMF

## TEST SUMMARY

**Bureau Veritas ID:** XDT617
**Sample ID:** SEPTEMBER 6TH SUMA
**Matrix:** Air

**Collected:** 2023/09/06
**Shipped:**
**Received:** 2023/10/02

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | PRES | 8959381 | N/A | 2023/10/04 | Ana Nunes |
| Volatile Organics in Air by GC/MS/SIM | GC/MS | 8959380 | N/A | 2023/10/04 | Ana Nunes |
| Volatile Organics in Air (TO-15) | GC/MS | 8959375 | N/A | 2023/10/04 | Ana Nunes |

**Bureau Veritas ID:** XDT617 Dup
**Sample ID:** SEPTEMBER 6TH SUMA
**Matrix:** Air

**Collected:** 2023/09/06
**Shipped:**
**Received:** 2023/10/02

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Volatile Organics in Air by GC/MS/SIM | GC/MS | 8959380 | N/A | 2023/10/04 | Ana Nunes |
| Volatile Organics in Air (TO-15) | GC/MS | 8959375 | N/A | 2023/10/04 | Ana Nunes |



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## GENERAL COMMENTS

**Results relate only to the items tested.**



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## QUALITY ASSURANCE REPORT



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8959375 | Bromochloromethane | 2023/10/04 | 108 | 60 - 140 | 109 | % | | |
| 8959375 | D5-Chlorobenzene | 2023/10/04 | 113 | 60 - 140 | 91 | % | | |
| 8959375 | Difluorobenzene | 2023/10/04 | 113 | 60 - 140 | 96 | % | | |
| 8959380 | Bromochloromethane | 2023/10/04 | 108 | 60 - 140 | 109 | % | | |
| 8959380 | D5-Chlorobenzene | 2023/10/04 | 113 | 60 - 140 | 91 | % | | |
| 8959380 | Difluorobenzene | 2023/10/04 | 113 | 60 - 140 | 96 | % | | |
| 8959375 | 1,2,4-Trimethylbenzene | 2023/10/04 | 95 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8959375 | 1,2-Dichlorotetrafluoroethane | 2023/10/04 | 84 | 70 - 130 | <0.17 | ppbv | NC (1) | 25 |
| 8959375 | 1,3,5-Trimethylbenzene | 2023/10/04 | 94 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8959375 | 1,3-Butadiene | 2023/10/04 | 91 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8959375 | 1,3-Dichlorobenzene | 2023/10/04 | 86 | 70 - 130 | <0.40 | ppbv | NC (1) | 25 |
| 8959375 | 1,4-Dioxane | 2023/10/04 | 102 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 8959375 | 2,2,4-Trimethylpentane | 2023/10/04 | 98 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8959375 | 2-propanol | 2023/10/04 | 87 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 8959375 | 4-ethyltoluene | 2023/10/04 | 98 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8959375 | Benzyl chloride | 2023/10/04 | 109 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8959375 | Bromodichloromethane | 2023/10/04 | 89 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8959375 | Carbon Disulfide | 2023/10/04 | 89 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8959375 | Chloroethane | 2023/10/04 | 87 | 70 - 130 | <0.30 | ppbv | NC (1) | 25 |
| 8959375 | Chloromethane | 2023/10/04 | 86 | 70 - 130 | <0.30 | ppbv | 0.075 (1) | 25 |
| 8959375 | Cyclohexane | 2023/10/04 | 96 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8959375 | Dibromochloromethane | 2023/10/04 | 95 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8959375 | Dichlorodifluoromethane (FREON 12) | 2023/10/04 | 88 | 70 - 130 | <0.20 | ppbv | 4.2 (1) | 25 |
| 8959375 | Ethanol (ethyl alcohol) | 2023/10/04 | 99 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 8959375 | Ethyl Acetate | 2023/10/04 | 95 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 8959375 | Heptane | 2023/10/04 | 97 | 70 - 130 | <0.30 | ppbv | NC (1) | 25 |
| 8959375 | Methyl Butyl Ketone (2-Hexanone) | 2023/10/04 | 90 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 8959375 | Propene | 2023/10/04 | 98 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 8959375 | Tetrahydrofuran | 2023/10/04 | 93 | 70 - 130 | <0.40 | ppbv | NC (1) | 25 |
| 8959375 | Trichlorofluoromethane (FREON 11) | 2023/10/04 | 92 | 70 - 130 | <0.20 | ppbv | 0.81 (1) | 25 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8959375 | Trichlorotrifluoroethane | 2023/10/04 | 87 | 70 - 130 | <0.15 | ppbv | NC (1) | 25 |
| 8959375 | Vinyl Acetate | 2023/10/04 | 96 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8959375 | Vinyl Bromide | 2023/10/04 | 77 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 8959380 | 1,1,1,2-Tetrachloroethane | 2023/10/04 | 96 | 70 - 130 | <0.021 | ppbv | NC (1) | 25 |
| 8959380 | 1,1,1-Trichloroethane | 2023/10/04 | 94 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8959380 | 1,1,2,2-Tetrachloroethane | 2023/10/04 | 83 | 70 - 130 | <0.0027 | ppbv | NC (1) | 25 |
| 8959380 | 1,1,2-Trichloroethane | 2023/10/04 | 91 | 70 - 130 | <0.012 | ppbv | NC (1) | 25 |
| 8959380 | 1,1-Dichloroethane | 2023/10/04 | 85 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8959380 | 1,1-Dichloroethylene | 2023/10/04 | 78 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8959380 | 1,2,4-Trichlorobenzene | 2023/10/04 | 81 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8959380 | 1,2-Dichlorobenzene | 2023/10/04 | 83 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8959380 | 1,2-Dichloroethane | 2023/10/04 | 92 | 70 - 130 | <0.010 | ppbv | 4.8 (1) | 25 |
| 8959380 | 1,2-Dichloropropane | 2023/10/04 | 90 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8959380 | 1,4-Dichlorobenzene | 2023/10/04 | 85 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8959380 | 2-Propanone | 2023/10/04 | 85 | 70 - 130 | <0.38 | ppbv | NC (1) | N/A |
| 8959380 | Benzene | 2023/10/04 | 95 | 70 - 130 | <0.050 | ppbv | 6.5 (1) | 25 |
| 8959380 | Bromoform | 2023/10/04 | 93 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8959380 | Bromomethane | 2023/10/04 | 79 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8959380 | Carbon Tetrachloride | 2023/10/04 | 97 | 70 - 130 | <0.050 | ppbv | 5.2 (1) | 25 |
| 8959380 | Chlorobenzene | 2023/10/04 | 91 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8959380 | Chloroform | 2023/10/04 | 94 | 70 - 130 | <0.040 | ppbv | NC (1) | 25 |
| 8959380 | cis-1,2-Dichloroethylene | 2023/10/04 | 90 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8959380 | cis-1,3-Dichloropropene | 2023/10/04 | 93 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8959380 | Ethylbenzene | 2023/10/04 | 98 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8959380 | Ethylene Dibromide | 2023/10/04 | 92 | 70 - 130 | <0.010 | ppbv | NC (1) | 25 |
| 8959380 | Hexachlorobutadiene | 2023/10/04 | 82 | 70 - 130 | <0.0047 | ppbv | NC (1) | 25 |
| 8959380 | Hexane | 2023/10/04 | 90 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8959380 | Methyl Ethyl Ketone (2-Butanone) | 2023/10/04 | 90 | 70 - 130 | <0.10 | ppbv | 1.2 (1) | 25 |
| 8959380 | Methyl Isobutyl Ketone | 2023/10/04 | 90 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8959380 | Methyl t-butyl ether (MTBE) | 2023/10/04 | 83 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8959380 | Methylene Chloride(Dichloromethane) | 2023/10/04 | 84 | 70 - 130 | <0.050 | ppbv | 7.4 (1) | 25 |
| 8959380 | Naphthalene | 2023/10/04 | 85 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8959380 | o-Xylene | 2023/10/04 | 91 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8959380 | p+m-Xylene | 2023/10/04 | 98 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8959380 | Styrene | 2023/10/04 | 92 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8959380 | Tetrachloroethylene | 2023/10/04 | 94 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8959380 | Toluene | 2023/10/04 | 97 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8959380 | Total Xylenes | 2023/10/04 | 96 | 70 - 130 | <0.15 | ppbv | NC (1) | 25 |
| 8959380 | trans-1,2-Dichloroethylene | 2023/10/04 | 89 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 8959380 | trans-1,3-Dichloropropene | 2023/10/04 | 101 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8959380 | Trichloroethylene | 2023/10/04 | 96 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 8959380 | Vinyl Chloride | 2023/10/04 | 88 | 70 - 130 | <0.020 | ppbv | NC (1) | 25 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Duplicate Parent ID [XDT617-01]



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3U3577
Report Date: 2023/10/16

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JMF

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Melanie Mabini, Team Leader

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

BUREAU VERITAS

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Phone: (905) 817-
Fax: (905) 817-

02-Oct-23 09:00
Gina Baybayan
C3U3577
VKK AIR-001

CAM FCD-01302 /3

ma™ Canister Page ____ of ____

| INVOICE INFORMATION | | REPORT INFORMATION | |
|---|---|---|---|
| Company Name: | | Company Name: | Kinross |
| Contact Name: | | Project Manager: | Jacob McFee |
| Address: | | Address: | 2 Industrial Park Road |
| | | | Red Lake ON, CA, P0V 2M0 |
| E-mail: | | E-mail: | jacob.mcfee@kinross.com |
| Ph: | | Ph: | (807) 728-2185 |
| Sampled by: | Jacob McFee | | |

ANALYSIS REQUESTED

| Field Sample ID | Canister Serial # | Flow Regulator Serial # | Collection Date | START VACUUM (inches of Hg) | END VACUUM (inches of Hg) | SOIL VAPOUR | AMBIENT/INDOOR AIR | AMBIENT/COMMERCIAL/INDUSTR | SUB-SLAB GAS | FULL LIST OF VOCs (reference | BTEX/Aromatic/Aliphatic Hydrocarbi Fractions | BTEX/F1 (C6-C10) and F2 (C10-C16) | Selected VOC's - please specify | Other | | | | CANISTERS NOT USED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| September 6th Suma | SX1923 | FX1340 | 10-Aug | -27 | -10 | | X | | | X | | | | | | | | |
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| TAT Requirement | | PROJECT INFORMATION | | REPORTING REQUIREMENTS | | |
|---|---|---|---|---|---|---|
| STD 10 Business day | ☑ | Project #: | | EDD | | ☑ |
| Rush 5 Business day * | ☐ | Name: | Kinross Project | Regulations | ON 153 | ☑ |
| Rush 2 Business day * | ☐ | PO #: | C026300307 | | ON 419 | ☑ |
| Rush Other * | ☐ | Bureau Veritas Quote #: | | | BC CSR | ☑ |
| | | Bureau Veritas Contact: | Cristina Bacchus | Other | | |
| * need approval from Bureau Veritas | | Task Order/Line Item | | | | |

**Notes**

*1) please indicate on chain of custody if your samples are soil vapour or ambient air*

*2) please list all canisters on the chain of custody even if unused*

**PROJECT SPECIFIC COMMENTS**

*Sampled for a period of 22 hours.*

Client Signature: Jacob McFee

Date/Time: Sep 8 2023, 8:20

Received by: [signature]

Date/Time: 2023/10/02 9:00

**PLEASE RETURN ALL UNUSED EQUIPMENT**

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms*

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: na

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/01/31**
Report #: R8009662
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C416443**
**Received: 2024/01/18, 08:25**

Sample Matrix: Air
# Samples Received: 1

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | 1 | N/A | 2024/01/22 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air by GC/MS/SIM (1) | 1 | N/A | 2024/01/22 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air (TO-15) (2) | 1 | N/A | 2024/01/22 | BRL SOP-00304 | EPA TO-15 m |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: na

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/01/31**
Report #: R8009662
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

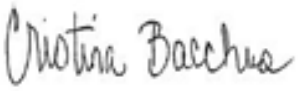
**BUREAU VERITAS JOB #: C416443**

**Received: 2024/01/18, 08:25**

(2) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key



Cristina (Maria) Bacchus
Project Manager
31 Jan 2024 17:17:57

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| **Bureau Veritas ID** | | YDJ709 | | |
|---|---|---|---|---|
| **Sampling Date** | | 2024/01/12 | | |
| **COC Number** | | na | | |
| | **UNITS** | **JANUARY 11TH SUMMA/SX-0143** | **RDL** | **QC Batch** |
| **Volatile Organics** | | | | |
| Pressure on Receipt | psig | (-0.6) | N/A | 9177222 |
| 2-Propanone | ppbv | 1.61 | 0.20 | 9175284 |
| Dichlorodifluoromethane (FREON 12) | ppbv | 0.52 | 0.20 | 9175281 |
| 1,2-Dichlorotetrafluoroethane | ppbv | <0.17 | 0.17 | 9175281 |
| Chloromethane | ppbv | 0.96 | 0.30 | 9175281 |
| Vinyl Chloride | ppbv | <0.020 | 0.020 | 9175284 |
| Chloroethane | ppbv | <0.30 | 0.30 | 9175281 |
| 1,3-Butadiene | ppbv | <0.50 | 0.50 | 9175281 |
| Trichlorofluoromethane (FREON 11) | ppbv | 0.28 | 0.20 | 9175281 |
| Ethanol (ethyl alcohol) | ppbv | <1.0 | 1.0 | 9175281 |
| Trichlorotrifluoroethane | ppbv | <0.15 | 0.15 | 9175281 |
| 2-propanol | ppbv | <1.0 | 1.0 | 9175281 |
| Methyl Ethyl Ketone (2-Butanone) | ppbv | 0.22 | 0.10 | 9175284 |
| Methyl Isobutyl Ketone | ppbv | <0.10 | 0.10 | 9175284 |
| Methyl Butyl Ketone (2-Hexanone) | ppbv | <1.0 | 1.0 | 9175281 |
| Methyl t-butyl ether (MTBE) | ppbv | <0.10 | 0.10 | 9175284 |
| Ethyl Acetate | ppbv | <1.0 | 1.0 | 9175281 |
| 1,1-Dichloroethylene | ppbv | <0.050 | 0.050 | 9175284 |
| cis-1,2-Dichloroethylene | ppbv | <0.050 | 0.050 | 9175284 |
| trans-1,2-Dichloroethylene | ppbv | <0.10 | 0.10 | 9175284 |
| Methylene Chloride(Dichloromethane) | ppbv | 0.184 | 0.050 | 9175284 |
| Chloroform | ppbv | <0.040 | 0.040 | 9175284 |
| Carbon Tetrachloride | ppbv | 0.106 | 0.050 | 9175284 |
| 1,1-Dichloroethane | ppbv | <0.050 | 0.050 | 9175284 |
| 1,2-Dichloroethane | ppbv | 0.029 | 0.010 | 9175284 |
| Ethylene Dibromide | ppbv | <0.010 | 0.010 | 9175284 |
| 1,1,1-Trichloroethane | ppbv | <0.050 | 0.050 | 9175284 |
| 1,1,2-Trichloroethane | ppbv | <0.012 | 0.012 | 9175284 |
| 1,1,2,2-Tetrachloroethane | ppbv | <0.0027 | 0.0027 | 9175284 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| **Bureau Veritas ID** | | YDJ709 | | |
|---|---|---|---|---|
| **Sampling Date** | | 2024/01/12 | | |
| **COC Number** | | na | | |
| | **UNITS** | **JANUARY 11TH SUMMA/SX-0143** | **RDL** | **QC Batch** |
| cis-1,3-Dichloropropene | ppbv | <0.050 | 0.050 | 9175284 |
| trans-1,3-Dichloropropene | ppbv | <0.050 | 0.050 | 9175284 |
| 1,2-Dichloropropane | ppbv | <0.050 | 0.050 | 9175284 |
| Bromomethane | ppbv | <0.050 | 0.050 | 9175284 |
| Bromoform | ppbv | <0.10 | 0.10 | 9175284 |
| Bromodichloromethane | ppbv | <0.20 | 0.20 | 9175281 |
| Dibromochloromethane | ppbv | <0.20 | 0.20 | 9175281 |
| Trichloroethylene | ppbv | <0.050 | 0.050 | 9175284 |
| Tetrachloroethylene | ppbv | <0.050 | 0.050 | 9175284 |
| Benzene | ppbv | 0.129 | 0.050 | 9175284 |
| Toluene | ppbv | 0.058 | 0.050 | 9175284 |
| Ethylbenzene | ppbv | <0.050 | 0.050 | 9175284 |
| p+m-Xylene | ppbv | <0.10 | 0.10 | 9175284 |
| o-Xylene | ppbv | <0.050 | 0.050 | 9175284 |
| Styrene | ppbv | <0.050 | 0.050 | 9175284 |
| 4-ethyltoluene | ppbv | <0.50 | 0.50 | 9175281 |
| 1,3,5-Trimethylbenzene | ppbv | <0.50 | 0.50 | 9175281 |
| 1,2,4-Trimethylbenzene | ppbv | <0.50 | 0.50 | 9175281 |
| Chlorobenzene | ppbv | <0.050 | 0.050 | 9175284 |
| Benzyl chloride | ppbv | <0.50 | 0.50 | 9175281 |
| 1,3-Dichlorobenzene | ppbv | <0.40 | 0.40 | 9175281 |
| 1,4-Dichlorobenzene | ppbv | <0.050 | 0.050 | 9175284 |
| 1,2-Dichlorobenzene | ppbv | <0.050 | 0.050 | 9175284 |
| 1,2,4-Trichlorobenzene | ppbv | <0.10 | 0.10 | 9175284 |
| Hexachlorobutadiene | ppbv | <0.0047 | 0.0047 | 9175284 |
| Hexane | ppbv | <0.10 | 0.10 | 9175284 |
| Heptane | ppbv | <0.30 | 0.30 | 9175281 |
| Cyclohexane | ppbv | <0.20 | 0.20 | 9175281 |
| Tetrahydrofuran | ppbv | <0.40 | 0.40 | 9175281 |
| 1,4-Dioxane | ppbv | <1.0 | 1.0 | 9175281 |
| Naphthalene | ppbv | <0.10 | 0.10 | 9175284 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| **Bureau Veritas ID** | | YDJ709 | | |
|---|---|---|---|---|
| **Sampling Date** | | 2024/01/12 | | |
| **COC Number** | | na | | |
| | **UNITS** | **JANUARY 11TH SUMMA/SX-0143** | **RDL** | **QC Batch** |
| Total Xylenes | ppbv | <0.15 | 0.15 | 9175284 |
| 1,1,1,2-Tetrachloroethane | ppbv | <0.021 | 0.021 | 9175284 |
| Vinyl Bromide | ppbv | <0.20 | 0.20 | 9175281 |
| Propene | ppbv | <0.50 | 0.50 | 9175281 |
| 2,2,4-Trimethylpentane | ppbv | <0.20 | 0.20 | 9175281 |
| Carbon Disulfide | ppbv | <0.50 | 0.50 | 9175281 |
| Vinyl Acetate | ppbv | <0.20 | 0.20 | 9175281 |
| **Surrogate Recovery (%)** | | | | |
| Bromochloromethane | % | 91 | N/A | 9175284 |
| D5-Chlorobenzene | % | 82 | N/A | 9175284 |
| Difluorobenzene | % | 83 | N/A | 9175284 |
| Bromochloromethane | % | 91 | N/A | 9175281 |
| D5-Chlorobenzene | % | 82 | N/A | 9175281 |
| Difluorobenzene | % | 83 | N/A | 9175281 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C416443
Report Date: 2024/01/31

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## TEST SUMMARY

**Bureau Veritas ID:** YDJ709
**Sample ID:** JANUARY 11TH SUMMA/SX-0143
**Matrix:** Air

**Collected:** 2024/01/12
**Shipped:**
**Received:** 2024/01/18

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | PRES | 9177222 | N/A | 2024/01/22 | Ana Nunes |
| Volatile Organics in Air by GC/MS/SIM | GC/MS | 9175284 | N/A | 2024/01/22 | Ana Nunes |
| Volatile Organics in Air (TO-15) | GC/MS | 9175281 | N/A | 2024/01/22 | Ana Nunes |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 9175281 | Bromochloromethane | 2024/01/22 | 105 | 60 - 140 | 99 | % | | |
| 9175281 | D5-Chlorobenzene | 2024/01/22 | 109 | 60 - 140 | 87 | % | | |
| 9175281 | Difluorobenzene | 2024/01/22 | 111 | 60 - 140 | 94 | % | | |
| 9175284 | Bromochloromethane | 2024/01/22 | 105 | 60 - 140 | 99 | % | | |
| 9175284 | D5-Chlorobenzene | 2024/01/22 | 109 | 60 - 140 | 87 | % | | |
| 9175284 | Difluorobenzene | 2024/01/22 | 111 | 60 - 140 | 94 | % | | |
| 9175281 | 1,2,4-Trimethylbenzene | 2024/01/22 | 108 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 9175281 | 1,2-Dichlorotetrafluoroethane | 2024/01/22 | 90 | 70 - 130 | <0.17 | ppbv | NC (1) | 25 |
| 9175281 | 1,3,5-Trimethylbenzene | 2024/01/22 | 106 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 9175281 | 1,3-Butadiene | 2024/01/22 | 98 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 9175281 | 1,3-Dichlorobenzene | 2024/01/22 | 100 | 70 - 130 | <0.40 | ppbv | NC (1) | 25 |
| 9175281 | 1,4-Dioxane | 2024/01/22 | 109 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 9175281 | 2,2,4-Trimethylpentane | 2024/01/22 | 92 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 9175281 | 2-propanol | 2024/01/22 | 98 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 9175281 | 4-ethyltoluene | 2024/01/22 | 103 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 9175281 | Benzyl chloride | 2024/01/22 | 115 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 9175281 | Bromodichloromethane | 2024/01/22 | 82 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 9175281 | Carbon Disulfide | 2024/01/22 | 93 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 9175281 | Chloroethane | 2024/01/22 | 95 | 70 - 130 | <0.30 | ppbv | NC (1) | 25 |
| 9175281 | Chloromethane | 2024/01/22 | 88 | 70 - 130 | <0.30 | ppbv | 1.9 (1) | 25 |
| 9175281 | Cyclohexane | 2024/01/22 | 97 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 9175281 | Dibromochloromethane | 2024/01/22 | 91 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 9175281 | Dichlorodifluoromethane (FREON 12) | 2024/01/22 | 84 | 70 - 130 | <0.20 | ppbv | 0.11 (1) | 25 |
| 9175281 | Ethanol (ethyl alcohol) | 2024/01/22 | 82 | 70 - 130 | <1.0 | ppbv | 4.3 (1) | 25 |
| 9175281 | Ethyl Acetate | 2024/01/22 | 96 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 9175281 | Heptane | 2024/01/22 | 96 | 70 - 130 | <0.30 | ppbv | NC (1) | 25 |
| 9175281 | Methyl Butyl Ketone (2-Hexanone) | 2024/01/22 | 98 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 9175281 | Propene | 2024/01/22 | 93 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 9175281 | Tetrahydrofuran | 2024/01/22 | 103 | 70 - 130 | <0.40 | ppbv | NC (1) | 25 |
| 9175281 | Trichlorofluoromethane (FREON 11) | 2024/01/22 | 87 | 70 - 130 | <0.20 | ppbv | 0.091 (1) | 25 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 9175281 | Trichlorotrifluoroethane | 2024/01/22 | 90 | 70 - 130 | <0.15 | ppbv | NC (1) | 25 |
| 9175281 | Vinyl Acetate | 2024/01/22 | 106 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 9175281 | Vinyl Bromide | 2024/01/22 | 85 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 9175284 | 1,1,1,2-Tetrachloroethane | 2024/01/22 | 92 | 70 - 130 | <0.021 | ppbv | NC (1) | 25 |
| 9175284 | 1,1,1-Trichloroethane | 2024/01/22 | 88 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9175284 | 1,1,2,2-Tetrachloroethane | 2024/01/22 | 91 | 70 - 130 | <0.0027 | ppbv | NC (1) | 25 |
| 9175284 | 1,1,2-Trichloroethane | 2024/01/22 | 91 | 70 - 130 | <0.012 | ppbv | NC (1) | 25 |
| 9175284 | 1,1-Dichloroethane | 2024/01/22 | 91 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9175284 | 1,1-Dichloroethylene | 2024/01/22 | 94 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9175284 | 1,2,4-Trichlorobenzene | 2024/01/22 | 114 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 9175284 | 1,2-Dichlorobenzene | 2024/01/22 | 99 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9175284 | 1,2-Dichloroethane | 2024/01/22 | 92 | 70 - 130 | <0.010 | ppbv | 5.3 (1) | 25 |
| 9175284 | 1,2-Dichloropropane | 2024/01/22 | 91 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9175284 | 1,4-Dichlorobenzene | 2024/01/22 | 103 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9175284 | 2-Propanone | 2024/01/22 | 86 | 70 - 130 | <0.20 | ppbv | NC (1) | N/A |
| 9175284 | Benzene | 2024/01/22 | 95 | 70 - 130 | <0.050 | ppbv | 2.9 (1) | 25 |
| 9175284 | Bromoform | 2024/01/22 | 97 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 9175284 | Bromomethane | 2024/01/22 | 87 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9175284 | Carbon Tetrachloride | 2024/01/22 | 94 | 70 - 130 | <0.050 | ppbv | 2.0 (1) | 25 |
| 9175284 | Chlorobenzene | 2024/01/22 | 98 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9175284 | Chloroform | 2024/01/22 | 93 | 70 - 130 | <0.040 | ppbv | NC (1) | 25 |
| 9175284 | cis-1,2-Dichloroethylene | 2024/01/22 | 97 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9175284 | cis-1,3-Dichloropropene | 2024/01/22 | 99 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9175284 | Ethylbenzene | 2024/01/22 | 100 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9175284 | Ethylene Dibromide | 2024/01/22 | 93 | 70 - 130 | <0.010 | ppbv | NC (1) | 25 |
| 9175284 | Hexachlorobutadiene | 2024/01/22 | 101 | 70 - 130 | <0.0047 | ppbv | NC (1) | 25 |
| 9175284 | Hexane | 2024/01/22 | 100 | 70 - 130 | <0.10 | ppbv | 1.6 (1) | 25 |
| 9175284 | Methyl Ethyl Ketone (2-Butanone) | 2024/01/22 | 95 | 70 - 130 | <0.10 | ppbv | 2.1 (1) | 25 |
| 9175284 | Methyl Isobutyl Ketone | 2024/01/22 | 94 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 9175284 | Methyl t-butyl ether (MTBE) | 2024/01/22 | 90 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 9175284 | Methylene Chloride(Dichloromethane) | 2024/01/22 | 90 | 70 - 130 | <0.050 | ppbv | 1.2 (1) | 25 |
| 9175284 | Naphthalene | 2024/01/22 | 133 (2) | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 9175284 | o-Xylene | 2024/01/22 | 96 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9175284 | p+m-Xylene | 2024/01/22 | 102 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 9175284 | Styrene | 2024/01/22 | 115 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9175284 | Tetrachloroethylene | 2024/01/22 | 100 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9175284 | Toluene | 2024/01/22 | 99 | 70 - 130 | <0.050 | ppbv | 1.5 (1) | 25 |
| 9175284 | Total Xylenes | 2024/01/22 | 100 | 70 - 130 | <0.15 | ppbv | NC (1) | 25 |
| 9175284 | trans-1,2-Dichloroethylene | 2024/01/22 | 93 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 9175284 | trans-1,3-Dichloropropene | 2024/01/22 | 106 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9175284 | Trichloroethylene | 2024/01/22 | 95 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9175284 | Vinyl Chloride | 2024/01/22 | 92 | 70 - 130 | <0.020 | ppbv | NC (1) | 25 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Duplicate Parent ID

(2) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



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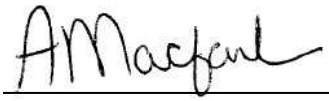
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C416443
Report Date: 2024/01/31

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anke Macfarlane, Laboratory Manager, VOC

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

18-Jan-24 08:25

Gina Baybayan

C416443

VKK AIR-001

CAM FCD-01302 /3

6740 Campobello Rd
Mississauga Ontario ,L5N 2L8
www.bvlabs.com
Toll Free: 1-800-668-0
Phone: (905) 817-5
Fax: (905) 817-5

**na™ Canister** Page 1 of 1

**ANALYSIS REQUESTED**

| INVOICE INFORMATION | | REPORT INFORMATION | |
|---|---|---|---|
| **Company Name:** | | **Company Name:** | Kinross/WSP E&I Canada |
| **Contact Name** | Ryan Fletcher | **Project Manager:** | Ryan Fletcher |
| **Address:** | | **Address:** | 19 Young Street, Red Lake ON, CA, P0V 2M0 |
| **E-mail:** | APInvoice.Canada@woodplc.com | **E-mail:** | See comments below for list |
| **Ph:** | | **Ph:** | 1 647-283-4638 |
| **Sampled by:** | Jacob McFee | | |

| Field Sample ID | Canister Serial # | Flow Regulator Serial # | Collection Date | START VACUUM (inches of Hg) | END VACUUM (inches of Hg) | SOIL VAPOUR | AMBIENT/INDOOR AIR | AMBIENT/COMMERCIAL/INDUSTRIAL | SUB-SLAB GAS | FULL LIST OF VOCs (reference TC | BTEX/Aromatic/Aliphatic Hydrocarbor Fractions | BTEX/F1 (C6-C10) and F2 (C10-C16) | Selected VOC's - please specify | Other | | | | CANISTERS NOT USED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January 11th Summa | SX-0143 | FX-757 | 12-Jan | -25.5 | 0 | | X | | | X | | | | | | | | |
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**TAT Requirement**

| | |
|---|---|
| STD 10 Business day | ☑ |
| Rush 5 Business day * | ☐ |
| Rush 2 Business day * | ☐ |
| Rush Other * | ☐ |

* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2303.2023D.100
Name: Kinross Project
PO #: C026300307
Bureau Veritas Quote #:
Bureau Veritas Contact: Cristina Bacchus
Task Order/Line Item

**REPORTING REQUIREMENTS**

EDD ☑
Regulations ON 153 ☑
ON 419 ☑
BC CSR ☑
Other

**Notes**

*1) please indicate on chain of custody if your samples are soil vapour or ambient air*
*2) please list all canisters on the chain of custody even if unused*

**PROJECT SPECIFIC COMMENTS**

Please send results to the following:
jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; ryan.fletcher@wsp.com; airgroup@woodplc.com; emily.meek@kinross.com; curtis.bloemberg@kinross.com; aaron.peloquin@kinross.com

**PLEASE RETURN ALL UNUSED EQUIPMENT**

Client Signature: [signature]
Date/Time: Jan 13th / 8:30

Received by: [signature] Kaur Kalsi
Date/Time: 2024/01/18 8:25

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms*

Sample Ran for a period of 25 hours and 45 minutes

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: na

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/01/31**
Report #: R8009662
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C416443**
**Received: 2024/01/18, 08:25**

Sample Matrix: Air
# Samples Received: 1

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | 1 | N/A | 2024/01/22 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air by GC/MS/SIM (1) | 1 | N/A | 2024/01/22 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air (TO-15) (2) | 1 | N/A | 2024/01/22 | BRL SOP-00304 | EPA TO-15 m |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

(2) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: na

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/01/31**
Report #: R8009662
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C416443**

**Received: 2024/01/18, 08:25**

analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key

Cristina (Maria) Bacchus
Project Manager
31 Jan 2024 17:18:04

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C416443
Report Date: 2024/01/31

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## RESULTS OF ANALYSES OF AIR

| **Bureau Veritas ID** | | YDJ709 | |
|---|---|---|---|
| **Sampling Date** | | 2024/01/12 | |
| **COC Number** | | na | |
| | **UNITS** | **JANUARY 11TH SUMMA/SX-0143** | **QC Batch** |
| **Volatile Organics** | | | |
| Pressure on Receipt | psig | (-0.6) | 9177222 |
| QC Batch = Quality Control Batch | | | |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## VOLATILE ORGANICS BY GC/MS (AIR)

| Bureau Veritas ID | | YDJ709 | | | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2024/01/12 | | | | |
| COC Number | | na | | | | |
| | UNITS | JANUARY 11TH SUMMA/SX-0143 | RDL | ug/m3 | DL (ug/m3) | QC Batch |
| **Volatile Organics** | | | | | | |
| 2-Propanone | ppbv | 1.61 | 0.20 | 3.83 | 0.475 | 9175284 |
| Dichlorodifluoromethane (FREON 12) | ppbv | 0.52 | 0.20 | 2.55 | 0.989 | 9175281 |
| 1,2-Dichlorotetrafluoroethane | ppbv | <0.17 | 0.17 | <1.19 | 1.19 | 9175281 |
| Chloromethane | ppbv | 0.96 | 0.30 | 1.97 | 0.620 | 9175281 |
| Vinyl Chloride | ppbv | <0.020 | 0.020 | <0.0511 | 0.0511 | 9175284 |
| Chloroethane | ppbv | <0.30 | 0.30 | <0.792 | 0.792 | 9175281 |
| 1,3-Butadiene | ppbv | <0.50 | 0.50 | <1.11 | 1.11 | 9175281 |
| Trichlorofluoromethane (FREON 11) | ppbv | 0.28 | 0.20 | 1.56 | 1.12 | 9175281 |
| Ethanol (ethyl alcohol) | ppbv | <1.0 | 1.0 | <1.88 | 1.88 | 9175281 |
| Trichlorotrifluoroethane | ppbv | <0.15 | 0.15 | <1.15 | 1.15 | 9175281 |
| 2-propanol | ppbv | <1.0 | 1.0 | <2.46 | 2.46 | 9175281 |
| Methyl Ethyl Ketone (2-Butanone) | ppbv | 0.22 | 0.10 | 0.635 | 0.295 | 9175284 |
| Methyl Isobutyl Ketone | ppbv | <0.10 | 0.10 | <0.410 | 0.410 | 9175284 |
| Methyl Butyl Ketone (2-Hexanone) | ppbv | <1.0 | 1.0 | <4.10 | 4.10 | 9175281 |
| Methyl t-butyl ether (MTBE) | ppbv | <0.10 | 0.10 | <0.361 | 0.361 | 9175284 |
| Ethyl Acetate | ppbv | <1.0 | 1.0 | <3.60 | 3.60 | 9175281 |
| 1,1-Dichloroethylene | ppbv | <0.050 | 0.050 | <0.198 | 0.198 | 9175284 |
| cis-1,2-Dichloroethylene | ppbv | <0.050 | 0.050 | <0.198 | 0.198 | 9175284 |
| trans-1,2-Dichloroethylene | ppbv | <0.10 | 0.10 | <0.396 | 0.396 | 9175284 |
| Methylene Chloride(Dichloromethane) | ppbv | 0.184 | 0.050 | 0.640 | 0.174 | 9175284 |
| Chloroform | ppbv | <0.040 | 0.040 | <0.195 | 0.195 | 9175284 |
| Carbon Tetrachloride | ppbv | 0.106 | 0.050 | 0.666 | 0.315 | 9175284 |
| 1,1-Dichloroethane | ppbv | <0.050 | 0.050 | <0.202 | 0.202 | 9175284 |
| 1,2-Dichloroethane | ppbv | 0.029 | 0.010 | 0.119 | 0.0405 | 9175284 |
| Ethylene Dibromide | ppbv | <0.010 | 0.010 | <0.0768 | 0.0768 | 9175284 |
| 1,1,1-Trichloroethane | ppbv | <0.050 | 0.050 | <0.273 | 0.273 | 9175284 |
| 1,1,2-Trichloroethane | ppbv | <0.012 | 0.012 | <0.0655 | 0.0655 | 9175284 |
| 1,1,2,2-Tetrachloroethane | ppbv | <0.0027 | 0.0027 | <0.0185 | 0.0185 | 9175284 |
| cis-1,3-Dichloropropene | ppbv | <0.050 | 0.050 | <0.227 | 0.227 | 9175284 |
| trans-1,3-Dichloropropene | ppbv | <0.050 | 0.050 | <0.227 | 0.227 | 9175284 |
| 1,2-Dichloropropane | ppbv | <0.050 | 0.050 | <0.231 | 0.231 | 9175284 |
| Bromomethane | ppbv | <0.050 | 0.050 | <0.194 | 0.194 | 9175284 |
| Bromoform | ppbv | <0.10 | 0.10 | <1.03 | 1.03 | 9175284 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## VOLATILE ORGANICS BY GC/MS (AIR)

| Bureau Veritas ID | | YDJ709 | | | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2024/01/12 | | | | |
| COC Number | | na | | | | |
| | UNITS | JANUARY 11TH SUMMA/SX-0143 | RDL | ug/m3 | DL (ug/m3) | QC Batch |
| Bromodichloromethane | ppbv | <0.20 | 0.20 | <1.34 | 1.34 | 9175281 |
| Dibromochloromethane | ppbv | <0.20 | 0.20 | <1.70 | 1.70 | 9175281 |
| Trichloroethylene | ppbv | <0.050 | 0.050 | <0.269 | 0.269 | 9175284 |
| Tetrachloroethylene | ppbv | <0.050 | 0.050 | <0.339 | 0.339 | 9175284 |
| Benzene | ppbv | 0.129 | 0.050 | 0.411 | 0.160 | 9175284 |
| Toluene | ppbv | 0.058 | 0.050 | 0.218 | 0.188 | 9175284 |
| Ethylbenzene | ppbv | <0.050 | 0.050 | <0.217 | 0.217 | 9175284 |
| p+m-Xylene | ppbv | <0.10 | 0.10 | <0.434 | 0.434 | 9175284 |
| o-Xylene | ppbv | <0.050 | 0.050 | <0.217 | 0.217 | 9175284 |
| Styrene | ppbv | <0.050 | 0.050 | <0.213 | 0.213 | 9175284 |
| 4-ethyltoluene | ppbv | <0.50 | 0.50 | <2.46 | 2.46 | 9175281 |
| 1,3,5-Trimethylbenzene | ppbv | <0.50 | 0.50 | <2.45 | 2.45 | 9175281 |
| 1,2,4-Trimethylbenzene | ppbv | <0.50 | 0.50 | <2.45 | 2.45 | 9175281 |
| Chlorobenzene | ppbv | <0.050 | 0.050 | <0.230 | 0.230 | 9175284 |
| Benzyl chloride | ppbv | <0.50 | 0.50 | <2.59 | 2.59 | 9175281 |
| 1,3-Dichlorobenzene | ppbv | <0.40 | 0.40 | <2.40 | 2.40 | 9175281 |
| 1,4-Dichlorobenzene | ppbv | <0.050 | 0.050 | <0.301 | 0.301 | 9175284 |
| 1,2-Dichlorobenzene | ppbv | <0.050 | 0.050 | <0.301 | 0.301 | 9175284 |
| 1,2,4-Trichlorobenzene | ppbv | <0.10 | 0.10 | <0.742 | 0.742 | 9175284 |
| Hexachlorobutadiene | ppbv | <0.0047 | 0.0047 | <0.0501 | 0.0501 | 9175284 |
| Hexane | ppbv | <0.10 | 0.10 | <0.352 | 0.352 | 9175284 |
| Heptane | ppbv | <0.30 | 0.30 | <1.23 | 1.23 | 9175281 |
| Cyclohexane | ppbv | <0.20 | 0.20 | <0.688 | 0.688 | 9175281 |
| Tetrahydrofuran | ppbv | <0.40 | 0.40 | <1.18 | 1.18 | 9175281 |
| 1,4-Dioxane | ppbv | <1.0 | 1.0 | <3.60 | 3.60 | 9175281 |
| Naphthalene | ppbv | <0.10 | 0.10 | <0.524 | 0.524 | 9175284 |
| Total Xylenes | ppbv | <0.15 | 0.15 | <0.651 | 0.651 | 9175284 |
| 1,1,1,2-Tetrachloroethane | ppbv | <0.021 | 0.021 | <0.144 | 0.144 | 9175284 |
| Vinyl Bromide | ppbv | <0.20 | 0.20 | <0.875 | 0.875 | 9175281 |
| Propene | ppbv | <0.50 | 0.50 | <0.861 | 0.861 | 9175281 |
| 2,2,4-Trimethylpentane | ppbv | <0.20 | 0.20 | <0.934 | 0.934 | 9175281 |
| Carbon Disulfide | ppbv | <0.50 | 0.50 | <1.56 | 1.56 | 9175281 |
| Vinyl Acetate | ppbv | <0.20 | 0.20 | <0.704 | 0.704 | 9175281 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## VOLATILE ORGANICS BY GC/MS (AIR)

| **Bureau Veritas ID** | | YDJ709 | | | | |
|---|---|---|---|---|---|---|
| **Sampling Date** | | 2024/01/12 | | | | |
| **COC Number** | | na | | | | |
| | **UNITS** | **JANUARY 11TH SUMMA/SX-0143** | **RDL** | **ug/m3** | **DL (ug/m3)** | **QC Batch** |
| **Surrogate Recovery (%)** | | | | | | |
| Bromochloromethane | % | 91 | | N/A | N/A | 9175284 |
| D5-Chlorobenzene | % | 82 | | N/A | N/A | 9175284 |
| Difluorobenzene | % | 83 | | N/A | N/A | 9175284 |
| Bromochloromethane | % | 91 | | N/A | N/A | 9175281 |
| D5-Chlorobenzene | % | 82 | | N/A | N/A | 9175281 |
| Difluorobenzene | % | 83 | | N/A | N/A | 9175281 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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## GENERAL COMMENTS

**Results relate only to the items tested.**



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## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9175281 | ANE | Spiked Blank | Bromochloromethane | 2024/01/22 | | 105 | % | 60 - 140 |
| | | | D5-Chlorobenzene | 2024/01/22 | | 109 | % | 60 - 140 |
| | | | Difluorobenzene | 2024/01/22 | | 111 | % | 60 - 140 |
| | | | Dichlorodifluoromethane (FREON 12) | 2024/01/22 | | 84 | % | 70 - 130 |
| | | | 1,2-Dichlorotetrafluoroethane | 2024/01/22 | | 90 | % | 70 - 130 |
| | | | Chloromethane | 2024/01/22 | | 88 | % | 70 - 130 |
| | | | Chloroethane | 2024/01/22 | | 95 | % | 70 - 130 |
| | | | 1,3-Butadiene | 2024/01/22 | | 98 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2024/01/22 | | 87 | % | 70 - 130 |
| | | | Ethanol (ethyl alcohol) | 2024/01/22 | | 82 | % | 70 - 130 |
| | | | Trichlorotrifluoroethane | 2024/01/22 | | 90 | % | 70 - 130 |
| | | | 2-propanol | 2024/01/22 | | 98 | % | 70 - 130 |
| | | | Methyl Butyl Ketone (2-Hexanone) | 2024/01/22 | | 98 | % | 70 - 130 |
| | | | Ethyl Acetate | 2024/01/22 | | 96 | % | 70 - 130 |
| | | | Bromodichloromethane | 2024/01/22 | | 82 | % | 70 - 130 |
| | | | Dibromochloromethane | 2024/01/22 | | 91 | % | 70 - 130 |
| | | | 4-ethyltoluene | 2024/01/22 | | 103 | % | 70 - 130 |
| | | | 1,3,5-Trimethylbenzene | 2024/01/22 | | 106 | % | 70 - 130 |
| | | | 1,2,4-Trimethylbenzene | 2024/01/22 | | 108 | % | 70 - 130 |
| | | | Benzyl chloride | 2024/01/22 | | 115 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2024/01/22 | | 100 | % | 70 - 130 |
| | | | Heptane | 2024/01/22 | | 96 | % | 70 - 130 |
| | | | Cyclohexane | 2024/01/22 | | 97 | % | 70 - 130 |
| | | | Tetrahydrofuran | 2024/01/22 | | 103 | % | 70 - 130 |
| | | | 1,4-Dioxane | 2024/01/22 | | 109 | % | 70 - 130 |
| | | | Vinyl Bromide | 2024/01/22 | | 85 | % | 70 - 130 |
| | | | Propene | 2024/01/22 | | 93 | % | 70 - 130 |
| | | | 2,2,4-Trimethylpentane | 2024/01/22 | | 92 | % | 70 - 130 |
| | | | Carbon Disulfide | 2024/01/22 | | 93 | % | 70 - 130 |
| | | | Vinyl Acetate | 2024/01/22 | | 106 | % | 70 - 130 |
| 9175281 | ANE | Method Blank | Bromochloromethane | 2024/01/22 | | 99 | % | 60 - 140 |
| | | | D5-Chlorobenzene | 2024/01/22 | | 87 | % | 60 - 140 |
| | | | Difluorobenzene | 2024/01/22 | | 94 | % | 60 - 140 |
| | | | Dichlorodifluoromethane (FREON 12) | 2024/01/22 | <0.20 | | ppbv | |
| | | | 1,2-Dichlorotetrafluoroethane | 2024/01/22 | <0.17 | | ppbv | |
| | | | Chloromethane | 2024/01/22 | <0.30 | | ppbv | |
| | | | Chloroethane | 2024/01/22 | <0.30 | | ppbv | |
| | | | 1,3-Butadiene | 2024/01/22 | <0.50 | | ppbv | |
| | | | Trichlorofluoromethane (FREON 11) | 2024/01/22 | <0.20 | | ppbv | |
| | | | Ethanol (ethyl alcohol) | 2024/01/22 | <1.0 | | ppbv | |
| | | | Trichlorotrifluoroethane | 2024/01/22 | <0.15 | | ppbv | |
| | | | 2-propanol | 2024/01/22 | <1.0 | | ppbv | |
| | | | Methyl Butyl Ketone (2-Hexanone) | 2024/01/22 | <1.0 | | ppbv | |
| | | | Ethyl Acetate | 2024/01/22 | <1.0 | | ppbv | |
| | | | Bromodichloromethane | 2024/01/22 | <0.20 | | ppbv | |
| | | | Dibromochloromethane | 2024/01/22 | <0.20 | | ppbv | |
| | | | 4-ethyltoluene | 2024/01/22 | <0.50 | | ppbv | |
| | | | 1,3,5-Trimethylbenzene | 2024/01/22 | <0.50 | | ppbv | |
| | | | 1,2,4-Trimethylbenzene | 2024/01/22 | <0.50 | | ppbv | |
| | | | Benzyl chloride | 2024/01/22 | <0.50 | | ppbv | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | 1,3-Dichlorobenzene | 2024/01/22 | <0.40 | | ppbv | |
| | | | Heptane | 2024/01/22 | <0.30 | | ppbv | |
| | | | Cyclohexane | 2024/01/22 | <0.20 | | ppbv | |
| | | | Tetrahydrofuran | 2024/01/22 | <0.40 | | ppbv | |
| | | | 1,4-Dioxane | 2024/01/22 | <1.0 | | ppbv | |
| | | | Vinyl Bromide | 2024/01/22 | <0.20 | | ppbv | |
| | | | Propene | 2024/01/22 | <0.50 | | ppbv | |
| | | | 2,2,4-Trimethylpentane | 2024/01/22 | <0.20 | | ppbv | |
| | | | Carbon Disulfide | 2024/01/22 | <0.50 | | ppbv | |
| | | | Vinyl Acetate | 2024/01/22 | <0.20 | | ppbv | |
| 9175281 | ANE | RPD | Dichlorodifluoromethane (FREON 12) | 2024/01/22 | 0.11 | | % | 25 |
| | | | 1,2-Dichlorotetrafluoroethane | 2024/01/22 | NC | | % | 25 |
| | | | Chloromethane | 2024/01/22 | 1.9 | | % | 25 |
| | | | Chloroethane | 2024/01/22 | NC | | % | 25 |
| | | | 1,3-Butadiene | 2024/01/22 | NC | | % | 25 |
| | | | Trichlorofluoromethane (FREON 11) | 2024/01/22 | 0.091 | | % | 25 |
| | | | Ethanol (ethyl alcohol) | 2024/01/22 | 4.3 | | % | 25 |
| | | | Trichlorotrifluoroethane | 2024/01/22 | NC | | % | 25 |
| | | | 2-propanol | 2024/01/22 | NC | | % | 25 |
| | | | Methyl Butyl Ketone (2-Hexanone) | 2024/01/22 | NC | | % | 25 |
| | | | Ethyl Acetate | 2024/01/22 | NC | | % | 25 |
| | | | Bromodichloromethane | 2024/01/22 | NC | | % | 25 |
| | | | Dibromochloromethane | 2024/01/22 | NC | | % | 25 |
| | | | 4-ethyltoluene | 2024/01/22 | NC | | % | 25 |
| | | | 1,3,5-Trimethylbenzene | 2024/01/22 | NC | | % | 25 |
| | | | 1,2,4-Trimethylbenzene | 2024/01/22 | NC | | % | 25 |
| | | | Benzyl chloride | 2024/01/22 | NC | | % | 25 |
| | | | 1,3-Dichlorobenzene | 2024/01/22 | NC | | % | 25 |
| | | | Heptane | 2024/01/22 | NC | | % | 25 |
| | | | Cyclohexane | 2024/01/22 | NC | | % | 25 |
| | | | Tetrahydrofuran | 2024/01/22 | NC | | % | 25 |
| | | | 1,4-Dioxane | 2024/01/22 | NC | | % | 25 |
| | | | Vinyl Bromide | 2024/01/22 | NC | | % | 25 |
| | | | Propene | 2024/01/22 | NC | | % | 25 |
| | | | 2,2,4-Trimethylpentane | 2024/01/22 | NC | | % | 25 |
| | | | Carbon Disulfide | 2024/01/22 | NC | | % | 25 |
| | | | Vinyl Acetate | 2024/01/22 | NC | | % | 25 |
| 9175284 | ANE | Spiked Blank | 2-Propanone | 2024/01/22 | | 86 | % | 70 - 130 |
| | | | Bromochloromethane | 2024/01/22 | | 105 | % | 60 - 140 |
| | | | D5-Chlorobenzene | 2024/01/22 | | 109 | % | 60 - 140 |
| | | | Difluorobenzene | 2024/01/22 | | 111 | % | 60 - 140 |
| | | | Vinyl Chloride | 2024/01/22 | | 92 | % | 70 - 130 |
| | | | Methyl Ethyl Ketone (2-Butanone) | 2024/01/22 | | 95 | % | 70 - 130 |
| | | | Methyl Isobutyl Ketone | 2024/01/22 | | 94 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2024/01/22 | | 90 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2024/01/22 | | 94 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2024/01/22 | | 97 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2024/01/22 | | 93 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2024/01/22 | | 90 | % | 70 - 130 |
| | | | Chloroform | 2024/01/22 | | 93 | % | 70 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Carbon Tetrachloride | 2024/01/22 | | 94 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2024/01/22 | | 91 | % | 70 - 130 |
| | | | 1,2-Dichloroethane | 2024/01/22 | | 92 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2024/01/22 | | 93 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2024/01/22 | | 88 | % | 70 - 130 |
| | | | 1,1,2-Trichloroethane | 2024/01/22 | | 91 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2024/01/22 | | 91 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2024/01/22 | | 99 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2024/01/22 | | 106 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2024/01/22 | | 91 | % | 70 - 130 |
| | | | Bromomethane | 2024/01/22 | | 87 | % | 70 - 130 |
| | | | Bromoform | 2024/01/22 | | 97 | % | 70 - 130 |
| | | | Trichloroethylene | 2024/01/22 | | 95 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2024/01/22 | | 100 | % | 70 - 130 |
| | | | Benzene | 2024/01/22 | | 95 | % | 70 - 130 |
| | | | Toluene | 2024/01/22 | | 99 | % | 70 - 130 |
| | | | Ethylbenzene | 2024/01/22 | | 100 | % | 70 - 130 |
| | | | p+m-Xylene | 2024/01/22 | | 102 | % | 70 - 130 |
| | | | o-Xylene | 2024/01/22 | | 96 | % | 70 - 130 |
| | | | Styrene | 2024/01/22 | | 115 | % | 70 - 130 |
| | | | Chlorobenzene | 2024/01/22 | | 98 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2024/01/22 | | 103 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2024/01/22 | | 99 | % | 70 - 130 |
| | | | 1,2,4-Trichlorobenzene | 2024/01/22 | | 114 | % | 70 - 130 |
| | | | Hexachlorobutadiene | 2024/01/22 | | 101 | % | 70 - 130 |
| | | | Hexane | 2024/01/22 | | 100 | % | 70 - 130 |
| | | | Naphthalene | 2024/01/22 | | 133 (1) | % | 70 - 130 |
| | | | Total Xylenes | 2024/01/22 | | 100 | % | 70 - 130 |
| | | | 1,1,1,2-Tetrachloroethane | 2024/01/22 | | 92 | % | 70 - 130 |
| 9175284 | ANE | Method Blank | 2-Propanone | 2024/01/22 | <0.20 | | ppbv | |
| | | | Bromochloromethane | 2024/01/22 | | 99 | % | 60 - 140 |
| | | | D5-Chlorobenzene | 2024/01/22 | | 87 | % | 60 - 140 |
| | | | Difluorobenzene | 2024/01/22 | | 94 | % | 60 - 140 |
| | | | Vinyl Chloride | 2024/01/22 | <0.020 | | ppbv | |
| | | | Methyl Ethyl Ketone (2-Butanone) | 2024/01/22 | <0.10 | | ppbv | |
| | | | Methyl Isobutyl Ketone | 2024/01/22 | <0.10 | | ppbv | |
| | | | Methyl t-butyl ether (MTBE) | 2024/01/22 | <0.10 | | ppbv | |
| | | | 1,1-Dichloroethylene | 2024/01/22 | <0.050 | | ppbv | |
| | | | cis-1,2-Dichloroethylene | 2024/01/22 | <0.050 | | ppbv | |
| | | | trans-1,2-Dichloroethylene | 2024/01/22 | <0.10 | | ppbv | |
| | | | Methylene Chloride(Dichloromethane) | 2024/01/22 | <0.050 | | ppbv | |
| | | | Chloroform | 2024/01/22 | <0.040 | | ppbv | |
| | | | Carbon Tetrachloride | 2024/01/22 | <0.050 | | ppbv | |
| | | | 1,1-Dichloroethane | 2024/01/22 | <0.050 | | ppbv | |
| | | | 1,2-Dichloroethane | 2024/01/22 | <0.010 | | ppbv | |
| | | | Ethylene Dibromide | 2024/01/22 | <0.010 | | ppbv | |
| | | | 1,1,1-Trichloroethane | 2024/01/22 | <0.050 | | ppbv | |
| | | | 1,1,2-Trichloroethane | 2024/01/22 | <0.012 | | ppbv | |
| | | | 1,1,2,2-Tetrachloroethane | 2024/01/22 | <0.0027 | | ppbv | |
| | | | cis-1,3-Dichloropropene | 2024/01/22 | <0.050 | | ppbv | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | trans-1,3-Dichloropropene | 2024/01/22 | <0.050 | | ppbv | |
| | | | 1,2-Dichloropropane | 2024/01/22 | <0.050 | | ppbv | |
| | | | Bromomethane | 2024/01/22 | <0.050 | | ppbv | |
| | | | Bromoform | 2024/01/22 | <0.10 | | ppbv | |
| | | | Trichloroethylene | 2024/01/22 | <0.050 | | ppbv | |
| | | | Tetrachloroethylene | 2024/01/22 | <0.050 | | ppbv | |
| | | | Benzene | 2024/01/22 | <0.050 | | ppbv | |
| | | | Toluene | 2024/01/22 | <0.050 | | ppbv | |
| | | | Ethylbenzene | 2024/01/22 | <0.050 | | ppbv | |
| | | | p+m-Xylene | 2024/01/22 | <0.10 | | ppbv | |
| | | | o-Xylene | 2024/01/22 | <0.050 | | ppbv | |
| | | | Styrene | 2024/01/22 | <0.050 | | ppbv | |
| | | | Chlorobenzene | 2024/01/22 | <0.050 | | ppbv | |
| | | | 1,4-Dichlorobenzene | 2024/01/22 | <0.050 | | ppbv | |
| | | | 1,2-Dichlorobenzene | 2024/01/22 | <0.050 | | ppbv | |
| | | | 1,2,4-Trichlorobenzene | 2024/01/22 | <0.10 | | ppbv | |
| | | | Hexachlorobutadiene | 2024/01/22 | <0.0047 | | ppbv | |
| | | | Hexane | 2024/01/22 | <0.10 | | ppbv | |
| | | | Naphthalene | 2024/01/22 | <0.10 | | ppbv | |
| | | | Total Xylenes | 2024/01/22 | <0.15 | | ppbv | |
| | | | 1,1,1,2-Tetrachloroethane | 2024/01/22 | <0.021 | | ppbv | |
| 9175284 | ANE | RPD | 2-Propanone | 2024/01/22 | NC | | % | N/A |
| | | | Vinyl Chloride | 2024/01/22 | NC | | % | 25 |
| | | | Methyl Ethyl Ketone (2-Butanone) | 2024/01/22 | 2.1 | | % | 25 |
| | | | Methyl Isobutyl Ketone | 2024/01/22 | NC | | % | 25 |
| | | | Methyl t-butyl ether (MTBE) | 2024/01/22 | NC | | % | 25 |
| | | | 1,1-Dichloroethylene | 2024/01/22 | NC | | % | 25 |
| | | | cis-1,2-Dichloroethylene | 2024/01/22 | NC | | % | 25 |
| | | | trans-1,2-Dichloroethylene | 2024/01/22 | NC | | % | 25 |
| | | | Methylene Chloride(Dichloromethane) | 2024/01/22 | 1.2 | | % | 25 |
| | | | Chloroform | 2024/01/22 | NC | | % | 25 |
| | | | Carbon Tetrachloride | 2024/01/22 | 2.0 | | % | 25 |
| | | | 1,1-Dichloroethane | 2024/01/22 | NC | | % | 25 |
| | | | 1,2-Dichloroethane | 2024/01/22 | 5.3 | | % | 25 |
| | | | Ethylene Dibromide | 2024/01/22 | NC | | % | 25 |
| | | | 1,1,1-Trichloroethane | 2024/01/22 | NC | | % | 25 |
| | | | 1,1,2-Trichloroethane | 2024/01/22 | NC | | % | 25 |
| | | | 1,1,2,2-Tetrachloroethane | 2024/01/22 | NC | | % | 25 |
| | | | cis-1,3-Dichloropropene | 2024/01/22 | NC | | % | 25 |
| | | | trans-1,3-Dichloropropene | 2024/01/22 | NC | | % | 25 |
| | | | 1,2-Dichloropropane | 2024/01/22 | NC | | % | 25 |
| | | | Bromomethane | 2024/01/22 | NC | | % | 25 |
| | | | Bromoform | 2024/01/22 | NC | | % | 25 |
| | | | Trichloroethylene | 2024/01/22 | NC | | % | 25 |
| | | | Tetrachloroethylene | 2024/01/22 | NC | | % | 25 |
| | | | Benzene | 2024/01/22 | 2.9 | | % | 25 |
| | | | Toluene | 2024/01/22 | 1.5 | | % | 25 |
| | | | Ethylbenzene | 2024/01/22 | NC | | % | 25 |
| | | | p+m-Xylene | 2024/01/22 | NC | | % | 25 |
| | | | o-Xylene | 2024/01/22 | NC | | % | 25 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Styrene | 2024/01/22 | NC | | % | 25 |
| | | | Chlorobenzene | 2024/01/22 | NC | | % | 25 |
| | | | 1,4-Dichlorobenzene | 2024/01/22 | NC | | % | 25 |
| | | | 1,2-Dichlorobenzene | 2024/01/22 | NC | | % | 25 |
| | | | 1,2,4-Trichlorobenzene | 2024/01/22 | NC | | % | 25 |
| | | | Hexachlorobutadiene | 2024/01/22 | NC | | % | 25 |
| | | | Hexane | 2024/01/22 | 1.6 | | % | 25 |
| | | | Naphthalene | 2024/01/22 | NC | | % | 25 |
| | | | Total Xylenes | 2024/01/22 | NC | | % | 25 |
| | | | 1,1,1,2-Tetrachloroethane | 2024/01/22 | NC | | % | 25 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



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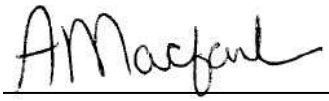
Bureau Veritas Job #: C416443
Report Date: 2024/01/31

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anke Macfarlane, Laboratory Manager, VOC

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: NA

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/02/22**
Report #: R8037437
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C439067**
**Received: 2024/02/08, 08:25**

Sample Matrix: Air
# Samples Received: 1

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | 1 | N/A | 2024/02/14 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air by GC/MS/SIM (1) | 1 | N/A | 2024/02/14 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air (TO-15) (2) | 1 | N/A | 2024/02/14 | BRL SOP-00304 | EPA TO-15 m |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: NA

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/02/22**
Report #: R8037437
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C439067**

**Received: 2024/02/08, 08:25**

(2) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key

Cristina (Maria) Bacchus
Project Manager
22 Feb 2024 13:56:49

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C439067
Report Date: 2024/02/22

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: CB

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| **Bureau Veritas ID** | | YIE899 | YIE899 | | |
|---|---|---|---|---|---|
| **Sampling Date** | | 2024/02/02 | 2024/02/02 | | |
| **COC Number** | | NA | NA | | |
| | **UNITS** | **FEBRUARY 1ST SUMMA** | **FEBRUARY 1ST SUMMA Lab-Dup** | **RDL** | **QC Batch** |
| **Volatile Organics** | | | | | |
| Pressure on Receipt | psig | (-2.9) | N/A | N/A | 9219675 |
| 2-Propanone | ppbv | 0.68 | 0.60 | 0.10 | 9219674 |
| Dichlorodifluoromethane (FREON 12) | ppbv | 0.51 | 0.50 | 0.20 | 9219658 |
| 1,2-Dichlorotetrafluoroethane | ppbv | <0.17 | <0.17 | 0.17 | 9219658 |
| Chloromethane | ppbv | 0.46 | 0.51 | 0.30 | 9219658 |
| Vinyl Chloride | ppbv | <0.020 | <0.020 | 0.020 | 9219674 |
| Chloroethane | ppbv | <0.30 | <0.30 | 0.30 | 9219658 |
| 1,3-Butadiene | ppbv | <0.50 | <0.50 | 0.50 | 9219658 |
| Trichlorofluoromethane (FREON 11) | ppbv | 0.31 | 0.29 | 0.20 | 9219658 |
| Ethanol (ethyl alcohol) | ppbv | <1.0 | <1.0 | 1.0 | 9219658 |
| Trichlorotrifluoroethane | ppbv | <0.15 | <0.15 | 0.15 | 9219658 |
| 2-propanol | ppbv | <1.0 | <1.0 | 1.0 | 9219658 |
| Methyl Ethyl Ketone (2-Butanone) | ppbv | <0.10 | <0.10 | 0.10 | 9219674 |
| Methyl Isobutyl Ketone | ppbv | <0.10 | <0.10 | 0.10 | 9219674 |
| Methyl Butyl Ketone (2-Hexanone) | ppbv | <1.0 | <1.0 | 1.0 | 9219658 |
| Methyl t-butyl ether (MTBE) | ppbv | <0.10 | <0.10 | 0.10 | 9219674 |
| Ethyl Acetate | ppbv | <1.0 | <1.0 | 1.0 | 9219658 |
| 1,1-Dichloroethylene | ppbv | <0.050 | <0.050 | 0.050 | 9219674 |
| cis-1,2-Dichloroethylene | ppbv | <0.050 | <0.050 | 0.050 | 9219674 |
| trans-1,2-Dichloroethylene | ppbv | <0.10 | <0.10 | 0.10 | 9219674 |
| Methylene Chloride(Dichloromethane) | ppbv | 0.453 | 0.393 | 0.050 | 9219674 |
| Chloroform | ppbv | <0.040 | <0.040 | 0.040 | 9219674 |
| Carbon Tetrachloride | ppbv | 0.119 | 0.123 | 0.050 | 9219674 |
| 1,1-Dichloroethane | ppbv | <0.050 | <0.050 | 0.050 | 9219674 |
| 1,2-Dichloroethane | ppbv | 0.027 | 0.026 | 0.010 | 9219674 |
| Ethylene Dibromide | ppbv | <0.010 | <0.010 | 0.010 | 9219674 |
| 1,1,1-Trichloroethane | ppbv | <0.050 | <0.050 | 0.050 | 9219674 |
| 1,1,2-Trichloroethane | ppbv | <0.012 | <0.012 | 0.012 | 9219674 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C439067
Report Date: 2024/02/22

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: CB

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| Bureau Veritas ID | | YIE899 | YIE899 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2024/02/02 | 2024/02/02 | | |
| COC Number | | NA | NA | | |
| | UNITS | FEBRUARY 1ST SUMMA | FEBRUARY 1ST SUMMA Lab-Dup | RDL | QC Batch |
| 1,1,2,2-Tetrachloroethane | ppbv | <0.0027 | <0.0027 | 0.0027 | 9219674 |
| cis-1,3-Dichloropropene | ppbv | <0.050 | <0.050 | 0.050 | 9219674 |
| trans-1,3-Dichloropropene | ppbv | <0.050 | <0.050 | 0.050 | 9219674 |
| 1,2-Dichloropropane | ppbv | <0.050 | <0.050 | 0.050 | 9219674 |
| Bromomethane | ppbv | <0.050 | <0.050 | 0.050 | 9219674 |
| Bromoform | ppbv | <0.10 | <0.10 | 0.10 | 9219674 |
| Bromodichloromethane | ppbv | <0.20 | <0.20 | 0.20 | 9219658 |
| Dibromochloromethane | ppbv | <0.20 | <0.20 | 0.20 | 9219658 |
| Trichloroethylene | ppbv | <0.050 | <0.050 | 0.050 | 9219674 |
| Tetrachloroethylene | ppbv | <0.050 | <0.050 | 0.050 | 9219674 |
| Benzene | ppbv | 0.168 | 0.168 | 0.050 | 9219674 |
| Toluene | ppbv | 0.273 | 0.277 | 0.050 | 9219674 |
| Ethylbenzene | ppbv | <0.050 | <0.050 | 0.050 | 9219674 |
| p+m-Xylene | ppbv | <0.10 | <0.10 | 0.10 | 9219674 |
| o-Xylene | ppbv | <0.050 | <0.050 | 0.050 | 9219674 |
| Styrene | ppbv | <0.050 | <0.050 | 0.050 | 9219674 |
| 4-ethyltoluene | ppbv | <0.50 | <0.50 | 0.50 | 9219658 |
| 1,3,5-Trimethylbenzene | ppbv | <0.50 | <0.50 | 0.50 | 9219658 |
| 1,2,4-Trimethylbenzene | ppbv | <0.50 | <0.50 | 0.50 | 9219658 |
| Chlorobenzene | ppbv | <0.050 | <0.050 | 0.050 | 9219674 |
| Benzyl chloride | ppbv | <0.50 | <0.50 | 0.50 | 9219658 |
| 1,3-Dichlorobenzene | ppbv | <0.40 | <0.40 | 0.40 | 9219658 |
| 1,4-Dichlorobenzene | ppbv | <0.050 | <0.050 | 0.050 | 9219674 |
| 1,2-Dichlorobenzene | ppbv | <0.050 | <0.050 | 0.050 | 9219674 |
| 1,2,4-Trichlorobenzene | ppbv | <0.10 | <0.10 | 0.10 | 9219674 |
| Hexachlorobutadiene | ppbv | <0.0047 | <0.0047 | 0.0047 | 9219674 |
| Hexane | ppbv | 0.29 | 0.29 | 0.10 | 9219674 |
| Heptane | ppbv | <0.30 | <0.30 | 0.30 | 9219658 |
| Cyclohexane | ppbv | <0.20 | <0.20 | 0.20 | 9219658 |
| Tetrahydrofuran | ppbv | <0.40 | <0.40 | 0.40 | 9219658 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: CB

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| **Bureau Veritas ID** | | YIE899 | YIE899 | | |
|---|---|---|---|---|---|
| **Sampling Date** | | 2024/02/02 | 2024/02/02 | | |
| **COC Number** | | NA | NA | | |
| | **UNITS** | **FEBRUARY 1ST SUMMA** | **FEBRUARY 1ST SUMMA Lab-Dup** | **RDL** | **QC Batch** |
| 1,4-Dioxane | ppbv | <1.0 | <1.0 | 1.0 | 9219658 |
| Naphthalene | ppbv | <0.10 | <0.10 | 0.10 | 9219674 |
| Total Xylenes | ppbv | <0.15 | <0.15 | 0.15 | 9219674 |
| 1,1,1,2-Tetrachloroethane | ppbv | <0.021 | <0.021 | 0.021 | 9219674 |
| Vinyl Bromide | ppbv | <0.20 | <0.20 | 0.20 | 9219658 |
| Propene | ppbv | <0.70 | <0.70 | 0.70 | 9219658 |
| 2,2,4-Trimethylpentane | ppbv | <0.20 | <0.20 | 0.20 | 9219658 |
| Carbon Disulfide | ppbv | <0.50 | <0.50 | 0.50 | 9219658 |
| Vinyl Acetate | ppbv | <0.20 | <0.20 | 0.20 | 9219658 |
| **Surrogate Recovery (%)** | | | | | |
| Bromochloromethane | % | 92 | 92 | N/A | 9219674 |
| D5-Chlorobenzene | % | 86 | 83 | N/A | 9219674 |
| Difluorobenzene | % | 83 | 81 | N/A | 9219674 |
| Bromochloromethane | % | 92 | 92 | N/A | 9219658 |
| D5-Chlorobenzene | % | 86 | 83 | N/A | 9219658 |
| Difluorobenzene | % | 83 | 81 | N/A | 9219658 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable



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Bureau Veritas Job #: C439067
Report Date: 2024/02/22

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: CB

## TEST SUMMARY

**Bureau Veritas ID:** YIE899
**Sample ID:** FEBRUARY 1ST SUMMA
**Matrix:** Air

**Collected:** 2024/02/02
**Shipped:**
**Received:** 2024/02/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | PRES | 9219675 | N/A | 2024/02/14 | Ana Nunes |
| Volatile Organics in Air by GC/MS/SIM | GC/MS | 9219674 | N/A | 2024/02/14 | Ana Nunes |
| Volatile Organics in Air (TO-15) | GC/MS | 9219658 | N/A | 2024/02/14 | Ana Nunes |

**Bureau Veritas ID:** YIE899 Dup
**Sample ID:** FEBRUARY 1ST SUMMA
**Matrix:** Air

**Collected:** 2024/02/02
**Shipped:**
**Received:** 2024/02/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Volatile Organics in Air by GC/MS/SIM | GC/MS | 9219674 | N/A | 2024/02/14 | Ana Nunes |
| Volatile Organics in Air (TO-15) | GC/MS | 9219658 | N/A | 2024/02/14 | Ana Nunes |



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## GENERAL COMMENTS

Increased DL for propene due to interference from propane.

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 9219658 | Bromochloromethane | 2024/02/14 | 88 | 60 - 140 | 99 | % | | |
| 9219658 | D5-Chlorobenzene | 2024/02/14 | 109 | 60 - 140 | 75 | % | | |
| 9219658 | Difluorobenzene | 2024/02/14 | 96 | 60 - 140 | 85 | % | | |
| 9219674 | Bromochloromethane | 2024/02/14 | 88 | 60 - 140 | 99 | % | | |
| 9219674 | D5-Chlorobenzene | 2024/02/14 | 109 | 60 - 140 | 75 | % | | |
| 9219674 | Difluorobenzene | 2024/02/14 | 96 | 60 - 140 | 85 | % | | |
| 9219658 | 1,2,4-Trimethylbenzene | 2024/02/14 | 112 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 9219658 | 1,2-Dichlorotetrafluoroethane | 2024/02/14 | 105 | 70 - 130 | <0.17 | ppbv | NC (1) | 25 |
| 9219658 | 1,3,5-Trimethylbenzene | 2024/02/14 | 108 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 9219658 | 1,3-Butadiene | 2024/02/14 | 110 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 9219658 | 1,3-Dichlorobenzene | 2024/02/14 | 102 | 70 - 130 | <0.40 | ppbv | NC (1) | 25 |
| 9219658 | 1,4-Dioxane | 2024/02/14 | 79 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 9219658 | 2,2,4-Trimethylpentane | 2024/02/14 | 101 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 9219658 | 2-propanol | 2024/02/14 | 77 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 9219658 | 4-ethyltoluene | 2024/02/14 | 110 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 9219658 | Benzyl chloride | 2024/02/14 | 98 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 9219658 | Bromodichloromethane | 2024/02/14 | 97 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 9219658 | Carbon Disulfide | 2024/02/14 | 94 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 9219658 | Chloroethane | 2024/02/14 | 97 | 70 - 130 | <0.30 | ppbv | NC (1) | 25 |
| 9219658 | Chloromethane | 2024/02/14 | 107 | 70 - 130 | <0.30 | ppbv | 9.6 (1) | 25 |
| 9219658 | Cyclohexane | 2024/02/14 | 103 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 9219658 | Dibromochloromethane | 2024/02/14 | 114 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 9219658 | Dichlorodifluoromethane (FREON 12) | 2024/02/14 | 97 | 70 - 130 | <0.20 | ppbv | 2.4 (1) | 25 |
| 9219658 | Ethanol (ethyl alcohol) | 2024/02/14 | 73 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 9219658 | Ethyl Acetate | 2024/02/14 | 95 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 9219658 | Heptane | 2024/02/14 | 104 | 70 - 130 | <0.30 | ppbv | NC (1) | 25 |
| 9219658 | Methyl Butyl Ketone (2-Hexanone) | 2024/02/14 | 101 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 9219658 | Propene | 2024/02/14 | 111 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 9219658 | Tetrahydrofuran | 2024/02/14 | 98 | 70 - 130 | <0.40 | ppbv | NC (1) | 25 |
| 9219658 | Trichlorofluoromethane (FREON 11) | 2024/02/14 | 105 | 70 - 130 | <0.20 | ppbv | 6.5 (1) | 25 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 9219658 | Trichlorotrifluoroethane | 2024/02/14 | 96 | 70 - 130 | <0.15 | ppbv | NC (1) | 25 |
| 9219658 | Vinyl Acetate | 2024/02/14 | 101 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 9219658 | Vinyl Bromide | 2024/02/14 | 90 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 9219674 | 1,1,1,2-Tetrachloroethane | 2024/02/14 | 101 | 70 - 130 | <0.021 | ppbv | NC (1) | 25 |
| 9219674 | 1,1,1-Trichloroethane | 2024/02/14 | 106 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9219674 | 1,1,2,2-Tetrachloroethane | 2024/02/14 | 98 | 70 - 130 | <0.0027 | ppbv | NC (1) | 25 |
| 9219674 | 1,1,2-Trichloroethane | 2024/02/14 | 106 | 70 - 130 | <0.012 | ppbv | NC (1) | 25 |
| 9219674 | 1,1-Dichloroethane | 2024/02/14 | 94 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9219674 | 1,1-Dichloroethylene | 2024/02/14 | 100 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9219674 | 1,2,4-Trichlorobenzene | 2024/02/14 | 108 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 9219674 | 1,2-Dichlorobenzene | 2024/02/14 | 102 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9219674 | 1,2-Dichloroethane | 2024/02/14 | 107 | 70 - 130 | <0.010 | ppbv | 5.8 (1) | 25 |
| 9219674 | 1,2-Dichloropropane | 2024/02/14 | 99 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9219674 | 1,4-Dichlorobenzene | 2024/02/14 | 105 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9219674 | 2-Propanone | 2024/02/14 | 94 | 70 - 130 | <0.10 | ppbv | NC (1) | N/A |
| 9219674 | Benzene | 2024/02/14 | 104 | 70 - 130 | <0.050 | ppbv | 0.065 (1) | 25 |
| 9219674 | Bromoform | 2024/02/14 | 96 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 9219674 | Bromomethane | 2024/02/14 | 99 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9219674 | Carbon Tetrachloride | 2024/02/14 | 105 | 70 - 130 | <0.050 | ppbv | 2.6 (1) | 25 |
| 9219674 | Chlorobenzene | 2024/02/14 | 105 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9219674 | Chloroform | 2024/02/14 | 104 | 70 - 130 | <0.040 | ppbv | NC (1) | 25 |
| 9219674 | cis-1,2-Dichloroethylene | 2024/02/14 | 98 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9219674 | cis-1,3-Dichloropropene | 2024/02/14 | 107 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9219674 | Ethylbenzene | 2024/02/14 | 106 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9219674 | Ethylene Dibromide | 2024/02/14 | 119 | 70 - 130 | <0.010 | ppbv | NC (1) | 25 |
| 9219674 | Hexachlorobutadiene | 2024/02/14 | 102 | 70 - 130 | <0.0047 | ppbv | NC (1) | 25 |
| 9219674 | Hexane | 2024/02/14 | 96 | 70 - 130 | <0.10 | ppbv | 2.4 (1) | 25 |
| 9219674 | Methyl Ethyl Ketone (2-Butanone) | 2024/02/14 | 97 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 9219674 | Methyl Isobutyl Ketone | 2024/02/14 | 97 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 9219674 | Methyl t-butyl ether (MTBE) | 2024/02/14 | 87 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 9219674 | Methylene Chloride(Dichloromethane) | 2024/02/14 | 94 | 70 - 130 | <0.050 | ppbv | 14 (1) | 25 |
| 9219674 | Naphthalene | 2024/02/14 | 119 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 9219674 | o-Xylene | 2024/02/14 | 102 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9219674 | p+m-Xylene | 2024/02/14 | 109 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 9219674 | Styrene | 2024/02/14 | 111 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9219674 | Tetrachloroethylene | 2024/02/14 | 127 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9219674 | Toluene | 2024/02/14 | 111 | 70 - 130 | <0.050 | ppbv | 1.4 (1) | 25 |
| 9219674 | Total Xylenes | 2024/02/14 | 107 | 70 - 130 | <0.15 | ppbv | NC (1) | 25 |
| 9219674 | trans-1,2-Dichloroethylene | 2024/02/14 | 95 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 9219674 | trans-1,3-Dichloropropene | 2024/02/14 | 109 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9219674 | Trichloroethylene | 2024/02/14 | 108 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9219674 | Vinyl Chloride | 2024/02/14 | 125 | 70 - 130 | <0.020 | ppbv | NC (1) | 25 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Duplicate Parent ID [YIE899-01]



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C439067
Report Date: 2024/02/22

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: C026300307
Sampler Initials: CB

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Yujie Yan

Yujie Yan, Senior Analyst

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

JOB #

CLIENT NAME: WSP E & I Canada Limited.

Maxxam Analytics
CAM FCD-01053/2
Page 1 of 1

## Internal Sample Receipt Form

| | Sample Identification | Date Sampled | Time Sampled | Matrix | # of Bottles | Comments |
|---|---|---|---|---|---|---|
| 1 | SX 2580 | | | | | Media Job #: C3BL783 |
| 2 | | | | | | ↓ |
| 3 | | | | | | Blank sample ID. |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | 08-Feb-24 08:25 | | | | | |
| 7 | Gina Baybayan | | | | | |
| 8 | C439067 | | | | | |
| 9 | V AIR-001 | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |

| Received by (Signature & Print): | Date | Time | Cooler ID | Temperature | Custody seal Present | | Custody Seal Intact | | Ice Present | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | YES | NO | YES | NO | YES | NO |
| Cindy Vong | 2024/02/08 | 8:25 | 1 | | | | | | | |
| | | | | | | | | | | |

CAM FCD-01302 /3

BUREAU VERITAS

6740 Campobello Rd
Mississauga Ontario ,L5N 2L8
www.bvlabs.com

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Phone: (905) 817-5700
Fax: (905) 817-5777

# Chain of Custody Form - Summa™ Canister

Page ____ of ____

**INVOICE INFORMATION**

**Company Name:**

**Contact Name:**

**Address:**

**E-mail:**

**Ph:**

**Sampled by:** Curtis Bloemberg

**REPORT INFORMATION**

**Company Name:** Kinross

**Project Manager:** Jacob McFee

**Address:** 2 Industrial Park Road
Red Lake ON, CA, P0V 2M0

**E-mail:** jacob.mcfee@kinross.com

**Ph:** (807) 728-2185

**ANALYSIS REQUESTED**

| Field Sample ID | Canister Serial # | Flow Regulator Serial # | Collection Date | START VACUUM (inches of Hg) | END VACUUM (inches of Hg) | SOIL VAPOUR | AMBIENT/INDOOR AIR | AMBIENT/COMMERCIAL/INDUSTRIAL | SUB-SLAB GAS | FULL LIST OF VOCs (reference TO15A) | BTEX/Aromatic/Aliphatic Hydrocarbon Fractions | BTEX/F1 (C6-C10) and F2 (C10-C16) | Selected VOC's - please specify | Other | | | | CANISTERS NOT USED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| February 1st Summa | N/A | FX1157 | 2-Feb | -26.5 | -5 | | X | | | X | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | |

08-Feb-24 08:25
Cristina (Maria) Bacchus
C439067
V AIR-001

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
Rush Other * ☐

* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2303.2023D.100
Name: Kinross Project
PO #: C026300307
Bureau Veritas Quote #:
Bureau Veritas Contact: Cristina Bacchus
Task Order/Line Item

**REPORTING REQUIREMENTS**

EDD ☑
Regulations ON 153 ☑
ON 419 ☑
BC CSR ☑
Other

**Notes**

*1) please indicate on chain of custody if your samples are soil vapour or ambient air*
*2) please list all canisters on the chain of custody even if unused*

**PROJECT SPECIFIC COMMENTS**

*Cannister does not hav SX Serial # / Can be identified with CANPRP6-A and XXW486-01. Also, no transportation cap on canister*

PLEASE RETURN ALL UNUSED EQUIPMENT

Client Signature: Curtis Bloemberg
Date/Time: Feb 5 2024, 8:20

Received by: Cindy Vong
Date/Time: 2024/02/08 8:25

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions*

Your P.O. #: CA-EI-C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: NA

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/03/21**
Report #: R8075535
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C468404**
**Received: 2024/03/07, 08:39**

Sample Matrix: Air
# Samples Received: 1

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | 1 | N/A | 2024/03/18 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air by GC/MS/SIM (1) | 1 | N/A | 2024/03/18 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air (TO-15) (2) | 1 | N/A | 2024/03/18 | BRL SOP-00304 | EPA TO-15 m |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Your P.O. #: CA-EI-C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: NA

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/03/21**
Report #: R8075535
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

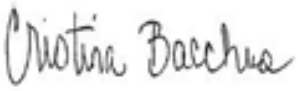
**BUREAU VERITAS JOB #: C468404**

**Received: 2024/03/07, 08:39**

(2) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key



Cristina (Maria) Bacchus
Project Manager
21 Mar 2024 15:28:41

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C468404
Report Date: 2024/03/21

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: CA-EI-C026300307
Sampler Initials: CB

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| Bureau Veritas ID | | YOG796 | YOG796 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2024/03/02 | 2024/03/02 | | |
| COC Number | | NA | NA | | |
| | UNITS | MARCH 2ND SUMMA/GC411475 | MARCH 2ND SUMMA/GC411475 Lab-Dup | RDL | QC Batch |
| **Volatile Organics** | | | | | |
| Pressure on Receipt | psig | (-2.9) | N/A | N/A | 9280373 |
| 2-Propanone | ppbv | 0.98 | 0.94 | 0.12 | 9280372 |
| Dichlorodifluoromethane (FREON 12) | ppbv | 0.47 | 0.46 | 0.20 | 9280371 |
| 1,2-Dichlorotetrafluoroethane | ppbv | <0.17 | <0.17 | 0.17 | 9280371 |
| Chloromethane | ppbv | 0.56 | 0.54 | 0.30 | 9280371 |
| Vinyl Chloride | ppbv | <0.020 | <0.020 | 0.020 | 9280372 |
| Chloroethane | ppbv | <0.30 | <0.30 | 0.30 | 9280371 |
| 1,3-Butadiene | ppbv | <0.50 | <0.50 | 0.50 | 9280371 |
| Trichlorofluoromethane (FREON 11) | ppbv | 0.29 | 0.30 | 0.20 | 9280371 |
| Ethanol (ethyl alcohol) | ppbv | <1.0 | <1.0 | 1.0 | 9280371 |
| Trichlorotrifluoroethane | ppbv | <0.15 | <0.15 | 0.15 | 9280371 |
| 2-propanol | ppbv | <1.0 | <1.0 | 1.0 | 9280371 |
| Methyl Ethyl Ketone (2-Butanone) | ppbv | 0.20 | 0.19 | 0.10 | 9280372 |
| Methyl Isobutyl Ketone | ppbv | <0.10 | <0.10 | 0.10 | 9280372 |
| Methyl Butyl Ketone (2-Hexanone) | ppbv | <1.0 | <1.0 | 1.0 | 9280371 |
| Methyl t-butyl ether (MTBE) | ppbv | <0.10 | <0.10 | 0.10 | 9280372 |
| Ethyl Acetate | ppbv | <1.0 | <1.0 | 1.0 | 9280371 |
| 1,1-Dichloroethylene | ppbv | <0.050 | <0.050 | 0.050 | 9280372 |
| cis-1,2-Dichloroethylene | ppbv | <0.050 | <0.050 | 0.050 | 9280372 |
| trans-1,2-Dichloroethylene | ppbv | <0.10 | <0.10 | 0.10 | 9280372 |
| Methylene Chloride(Dichloromethane) | ppbv | 0.149 | 0.154 | 0.050 | 9280372 |
| Chloroform | ppbv | <0.040 | <0.040 | 0.040 | 9280372 |
| Carbon Tetrachloride | ppbv | 0.134 | 0.132 | 0.050 | 9280372 |
| 1,1-Dichloroethane | ppbv | <0.050 | <0.050 | 0.050 | 9280372 |
| 1,2-Dichloroethane | ppbv | 0.024 | 0.023 | 0.010 | 9280372 |
| Ethylene Dibromide | ppbv | <0.010 | <0.010 | 0.010 | 9280372 |
| 1,1,1-Trichloroethane | ppbv | <0.050 | <0.050 | 0.050 | 9280372 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C468404
Report Date: 2024/03/21

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: CA-EI-C026300307
Sampler Initials: CB

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| Bureau Veritas ID | | YOG796 | YOG796 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2024/03/02 | 2024/03/02 | | |
| COC Number | | NA | NA | | |
| | UNITS | MARCH 2ND SUMMA/GC411475 | MARCH 2ND SUMMA/GC411475 Lab-Dup | RDL | QC Batch |
| 1,1,2-Trichloroethane | ppbv | <0.012 | <0.012 | 0.012 | 9280372 |
| 1,1,2,2-Tetrachloroethane | ppbv | <0.0027 | <0.0027 | 0.0027 | 9280372 |
| cis-1,3-Dichloropropene | ppbv | <0.050 | <0.050 | 0.050 | 9280372 |
| trans-1,3-Dichloropropene | ppbv | <0.050 | <0.050 | 0.050 | 9280372 |
| 1,2-Dichloropropane | ppbv | <0.050 | <0.050 | 0.050 | 9280372 |
| Bromomethane | ppbv | <0.050 | <0.050 | 0.050 | 9280372 |
| Bromoform | ppbv | <0.10 | <0.10 | 0.10 | 9280372 |
| Bromodichloromethane | ppbv | <0.20 | <0.20 | 0.20 | 9280371 |
| Dibromochloromethane | ppbv | <0.20 | <0.20 | 0.20 | 9280371 |
| Trichloroethylene | ppbv | <0.050 | <0.050 | 0.050 | 9280372 |
| Tetrachloroethylene | ppbv | <0.050 | <0.050 | 0.050 | 9280372 |
| Benzene | ppbv | 0.162 | 0.158 | 0.050 | 9280372 |
| Toluene | ppbv | 0.067 | 0.067 | 0.050 | 9280372 |
| Ethylbenzene | ppbv | <0.050 | <0.050 | 0.050 | 9280372 |
| p+m-Xylene | ppbv | <0.10 | <0.10 | 0.10 | 9280372 |
| o-Xylene | ppbv | <0.050 | <0.050 | 0.050 | 9280372 |
| Styrene | ppbv | <0.050 | <0.050 | 0.050 | 9280372 |
| 4-ethyltoluene | ppbv | <0.50 | <0.50 | 0.50 | 9280371 |
| 1,3,5-Trimethylbenzene | ppbv | <0.50 | <0.50 | 0.50 | 9280371 |
| 1,2,4-Trimethylbenzene | ppbv | <0.50 | <0.50 | 0.50 | 9280371 |
| Chlorobenzene | ppbv | <0.050 | <0.050 | 0.050 | 9280372 |
| Benzyl chloride | ppbv | <0.50 | <0.50 | 0.50 | 9280371 |
| 1,3-Dichlorobenzene | ppbv | <0.40 | <0.40 | 0.40 | 9280371 |
| 1,4-Dichlorobenzene | ppbv | <0.050 | <0.050 | 0.050 | 9280372 |
| 1,2-Dichlorobenzene | ppbv | <0.050 | <0.050 | 0.050 | 9280372 |
| 1,2,4-Trichlorobenzene | ppbv | <0.10 | <0.10 | 0.10 | 9280372 |
| Hexachlorobutadiene | ppbv | <0.0047 | <0.0047 | 0.0047 | 9280372 |
| Hexane | ppbv | <0.10 | <0.10 | 0.10 | 9280372 |
| Heptane | ppbv | <0.30 | <0.30 | 0.30 | 9280371 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: CA-EI-C026300307
Sampler Initials: CB

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| Bureau Veritas ID | | YOG796 | YOG796 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2024/03/02 | 2024/03/02 | | |
| COC Number | | NA | NA | | |
| | UNITS | MARCH 2ND SUMMA/GC411475 | MARCH 2ND SUMMA/GC411475 Lab-Dup | RDL | QC Batch |
| Cyclohexane | ppbv | <0.20 | <0.20 | 0.20 | 9280371 |
| Tetrahydrofuran | ppbv | <0.40 | <0.40 | 0.40 | 9280371 |
| 1,4-Dioxane | ppbv | <1.0 | <1.0 | 1.0 | 9280371 |
| Naphthalene | ppbv | <0.10 | <0.10 | 0.10 | 9280372 |
| Total Xylenes | ppbv | <0.15 | <0.15 | 0.15 | 9280372 |
| 1,1,1,2-Tetrachloroethane | ppbv | <0.021 | <0.021 | 0.021 | 9280372 |
| Vinyl Bromide | ppbv | <0.20 | <0.20 | 0.20 | 9280371 |
| Propene | ppbv | <0.50 | <0.50 | 0.50 | 9280371 |
| 2,2,4-Trimethylpentane | ppbv | <0.20 | <0.20 | 0.20 | 9280371 |
| Carbon Disulfide | ppbv | <0.50 | <0.50 | 0.50 | 9280371 |
| Vinyl Acetate | ppbv | <0.20 | <0.20 | 0.20 | 9280371 |
| **Surrogate Recovery (%)** | | | | | |
| Bromochloromethane | % | 96 | 98 | N/A | 9280372 |
| D5-Chlorobenzene | % | 88 | 87 | N/A | 9280372 |
| Difluorobenzene | % | 86 | 86 | N/A | 9280372 |
| Bromochloromethane | % | 96 | 98 | N/A | 9280371 |
| D5-Chlorobenzene | % | 88 | 87 | N/A | 9280371 |
| Difluorobenzene | % | 86 | 86 | N/A | 9280371 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable


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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C468404
Report Date: 2024/03/21

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: CA-EI-C026300307
Sampler Initials: CB

## TEST SUMMARY

**Bureau Veritas ID:** YOG796
**Sample ID:** MARCH 2ND SUMMA/GC411475
**Matrix:** Air

**Collected:** 2024/03/02
**Shipped:**
**Received:** 2024/03/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | PRES | 9280373 | N/A | 2024/03/18 | Ana Nunes |
| Volatile Organics in Air by GC/MS/SIM | GC/MS | 9280372 | N/A | 2024/03/18 | Ana Nunes |
| Volatile Organics in Air (TO-15) | GC/MS | 9280371 | N/A | 2024/03/18 | Ana Nunes |

**Bureau Veritas ID:** YOG796 Dup
**Sample ID:** MARCH 2ND SUMMA/GC411475
**Matrix:** Air

**Collected:** 2024/03/02
**Shipped:**
**Received:** 2024/03/07

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Volatile Organics in Air by GC/MS/SIM | GC/MS | 9280372 | N/A | 2024/03/18 | Ana Nunes |
| Volatile Organics in Air (TO-15) | GC/MS | 9280371 | N/A | 2024/03/18 | Ana Nunes |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 9280371 | Bromochloromethane | 2024/03/18 | 101 | 60 - 140 | 106 | % | | |
| 9280371 | D5-Chlorobenzene | 2024/03/18 | 102 | 60 - 140 | 85 | % | | |
| 9280371 | Difluorobenzene | 2024/03/18 | 102 | 60 - 140 | 97 | % | | |
| 9280372 | Bromochloromethane | 2024/03/18 | 101 | 60 - 140 | 106 | % | | |
| 9280372 | D5-Chlorobenzene | 2024/03/18 | 102 | 60 - 140 | 85 | % | | |
| 9280372 | Difluorobenzene | 2024/03/18 | 102 | 60 - 140 | 97 | % | | |
| 9280371 | 1,2,4-Trimethylbenzene | 2024/03/18 | 97 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 9280371 | 1,2-Dichlorotetrafluoroethane | 2024/03/18 | 103 | 70 - 130 | <0.17 | ppbv | NC (1) | 25 |
| 9280371 | 1,3,5-Trimethylbenzene | 2024/03/18 | 99 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 9280371 | 1,3-Butadiene | 2024/03/18 | 103 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 9280371 | 1,3-Dichlorobenzene | 2024/03/18 | 94 | 70 - 130 | <0.40 | ppbv | NC (1) | 25 |
| 9280371 | 1,4-Dioxane | 2024/03/18 | 102 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 9280371 | 2,2,4-Trimethylpentane | 2024/03/18 | 103 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 9280371 | 2-propanol | 2024/03/18 | 90 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 9280371 | 4-ethyltoluene | 2024/03/18 | 99 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 9280371 | Benzyl chloride | 2024/03/18 | 127 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 9280371 | Bromodichloromethane | 2024/03/18 | 105 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 9280371 | Carbon Disulfide | 2024/03/18 | 99 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 9280371 | Chloroethane | 2024/03/18 | 105 | 70 - 130 | <0.30 | ppbv | NC (1) | 25 |
| 9280371 | Chloromethane | 2024/03/18 | 99 | 70 - 130 | <0.30 | ppbv | 2.8 (1) | 25 |
| 9280371 | Cyclohexane | 2024/03/18 | 102 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 9280371 | Dibromochloromethane | 2024/03/18 | 120 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 9280371 | Dichlorodifluoromethane (FREON 12) | 2024/03/18 | 96 | 70 - 130 | <0.20 | ppbv | 3.1 (1) | 25 |
| 9280371 | Ethanol (ethyl alcohol) | 2024/03/18 | 79 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 9280371 | Ethyl Acetate | 2024/03/18 | 92 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 9280371 | Heptane | 2024/03/18 | 100 | 70 - 130 | <0.30 | ppbv | NC (1) | 25 |
| 9280371 | Methyl Butyl Ketone (2-Hexanone) | 2024/03/18 | 89 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 9280371 | Propene | 2024/03/18 | 92 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 9280371 | Tetrahydrofuran | 2024/03/18 | 91 | 70 - 130 | <0.40 | ppbv | NC (1) | 25 |
| 9280371 | Trichlorofluoromethane (FREON 11) | 2024/03/18 | 97 | 70 - 130 | <0.20 | ppbv | 1.9 (1) | 25 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 9280371 | Trichlorotrifluoroethane | 2024/03/18 | 106 | 70 - 130 | <0.15 | ppbv | NC (1) | 25 |
| 9280371 | Vinyl Acetate | 2024/03/18 | 100 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 9280371 | Vinyl Bromide | 2024/03/18 | 93 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 9280372 | 1,1,1,2-Tetrachloroethane | 2024/03/18 | 120 | 70 - 130 | <0.021 | ppbv | NC (1) | 25 |
| 9280372 | 1,1,1-Trichloroethane | 2024/03/18 | 107 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9280372 | 1,1,2,2-Tetrachloroethane | 2024/03/18 | 102 | 70 - 130 | <0.0027 | ppbv | NC (1) | 25 |
| 9280372 | 1,1,2-Trichloroethane | 2024/03/18 | 101 | 70 - 130 | <0.012 | ppbv | NC (1) | 25 |
| 9280372 | 1,1-Dichloroethane | 2024/03/18 | 93 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9280372 | 1,1-Dichloroethylene | 2024/03/18 | 109 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9280372 | 1,2,4-Trichlorobenzene | 2024/03/18 | 92 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 9280372 | 1,2-Dichlorobenzene | 2024/03/18 | 95 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9280372 | 1,2-Dichloroethane | 2024/03/18 | 91 | 70 - 130 | <0.010 | ppbv | 4.6 (1) | 25 |
| 9280372 | 1,2-Dichloropropane | 2024/03/18 | 101 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9280372 | 1,4-Dichlorobenzene | 2024/03/18 | 97 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9280372 | 2-Propanone | 2024/03/18 | 88 | 70 - 130 | <0.12 | ppbv | NC (1) | N/A |
| 9280372 | Benzene | 2024/03/18 | 100 | 70 - 130 | <0.050 | ppbv | 1.9 (1) | 25 |
| 9280372 | Bromoform | 2024/03/18 | 124 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 9280372 | Bromomethane | 2024/03/18 | 96 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9280372 | Carbon Tetrachloride | 2024/03/18 | 131 (2) | 70 - 130 | <0.050 | ppbv | 2.0 (1) | 25 |
| 9280372 | Chlorobenzene | 2024/03/18 | 97 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9280372 | Chloroform | 2024/03/18 | 99 | 70 - 130 | <0.040 | ppbv | NC (1) | 25 |
| 9280372 | cis-1,2-Dichloroethylene | 2024/03/18 | 91 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9280372 | cis-1,3-Dichloropropene | 2024/03/18 | 107 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9280372 | Ethylbenzene | 2024/03/18 | 93 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9280372 | Ethylene Dibromide | 2024/03/18 | 102 | 70 - 130 | <0.010 | ppbv | NC (1) | 25 |
| 9280372 | Hexachlorobutadiene | 2024/03/18 | 82 | 70 - 130 | <0.0047 | ppbv | NC (1) | 25 |
| 9280372 | Hexane | 2024/03/18 | 94 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 9280372 | Methyl Ethyl Ketone (2-Butanone) | 2024/03/18 | 89 | 70 - 130 | <0.10 | ppbv | 6.5 (1) | 25 |
| 9280372 | Methyl Isobutyl Ketone | 2024/03/18 | 91 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 9280372 | Methyl t-butyl ether (MTBE) | 2024/03/18 | 78 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 9280372 | Methylene Chloride(Dichloromethane) | 2024/03/18 | 96 | 70 - 130 | <0.050 | ppbv | 3.5 (1) | 25 |
| 9280372 | Naphthalene | 2024/03/18 | 100 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 9280372 | o-Xylene | 2024/03/18 | 96 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9280372 | p+m-Xylene | 2024/03/18 | 97 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 9280372 | Styrene | 2024/03/18 | 101 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9280372 | Tetrachloroethylene | 2024/03/18 | 99 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9280372 | Toluene | 2024/03/18 | 95 | 70 - 130 | <0.050 | ppbv | 0.13 (1) | 25 |
| 9280372 | Total Xylenes | 2024/03/18 | 97 | 70 - 130 | <0.15 | ppbv | NC (1) | 25 |
| 9280372 | trans-1,2-Dichloroethylene | 2024/03/18 | 92 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 9280372 | trans-1,3-Dichloropropene | 2024/03/18 | 114 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9280372 | Trichloroethylene | 2024/03/18 | 102 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9280372 | Vinyl Chloride | 2024/03/18 | 103 | 70 - 130 | <0.020 | ppbv | NC (1) | 25 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Duplicate Parent ID [YOG796-01]

(2) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



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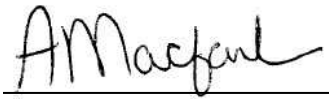
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C468404
Report Date: 2024/03/21

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: CA-EI-C026300307
Sampler Initials: CB

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anke Macfarlane, Laboratory Manager, VOC

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

07-Mar-24 08:39

Gina Baybayan

C468404

V AIR-001

CAM FCD-01302 /3

o Rd
tario ,L5N 2L8
Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

# Chain of Custody Form - Summa™ Canister

Page __1__of__1__

**REPORT INFORMATION**

| | |
|---|---|
| **Company Name:** | |
| **Contact Name** | Ryan Fletcher |
| **Address:** | |
| **E-mail:** | ryan.fletcher@wsp.com |
| **Ph:** | |
| **Sampled by:** | Curtis Bloemberg |

| | |
|---|---|
| **Company Name:** | Kinross/WSP E&I Canada |
| **Project Manager:** | Ryan Fletcher |
| **Address:** | 19 Young Street, |
| | Red Lake ON, CA, P0V 2M0 |
| **E-mail:** | See comments below for list |
| **Ph:** | 1 647-283-4638 |

**ANALYSIS REQUESTED**

| Field Sample ID | Canister Serial # | Flow Regulator Serial # | Collection Date | START VACUUM (inches of Hg) | END VACUUM (inches of Hg) | SOIL VAPOUR | AMBIENT/INDOOR AIR | AMBIENT/COMMERCIAL/INDUSTRIAL | SUB-SLAB GAS | FULL LIST OF VOCs (reference TO15A) | BTEX/Aromatic/Aliphatic Hydrocarbon Fractions | BTEX/F1 (C6-C10) and F2 (C10-C16) | Selected VOC's - please specify | Other | | | | CANISTERS NOT USED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| March 2nd Summa | GC411475 | FX-1617 | 12-Jan | -27 | -5 | | X | | | X | | | | | | | | |
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**TAT Requirement**

- STD 10 Business day ☑
- Rush 5 Business day * ☐
- Rush 2 Business day * ☐
- Rush Other * ☐

* need approval from Bureau Veritas

**PROJECT INFORMATION**

- Project #: OMEMA2303.2023D.100
- Name: Kinross Project
- PO #: CA-EI-C026300307
- Bureau Veritas Quote #:
- Bureau Veritas Contact: Cristina Bacchus
- Task Order/Line Item

**REPORTING REQUIREMENTS**

- EDD ☑
- Regulations: ON 153 ☐; ON 419 ☑; BC CSR ☑
- Other

**Notes**

*1) please indicate on chain of custody if your samples are soil vapour or ambient air*

*2) please list all canisters on the chain of custody even if unused*

*CANISTER DID NOT HAVE SX SERIAL #*

**PROJECT SPECIFIC COMMENTS**

Please send results to the following:
jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; ryan.fletcher@wsp.com; airgroup@wsp.com; emily.meek@kinross.com; curtis.bloemberg@kinross.com; aaron.peloquin@kinross.com

**PLEASE RETURN ALL UNUSED EQUIPMENT**

Client Signature:

Date/Time:

Received by: Cindy Vong

Date/Time: 2024/03/07 8:39

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions*

Your P.O. #: CA-EI-C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: NA

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/03/21**
Report #: R8075535
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C468404**
**Received: 2024/03/07, 08:39**

Sample Matrix: Air
# Samples Received: 1

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | 1 | N/A | 2024/03/18 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air by GC/MS/SIM (1) | 1 | N/A | 2024/03/18 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air (TO-15) (2) | 1 | N/A | 2024/03/18 | BRL SOP-00304 | EPA TO-15 m |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

(2) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target

Your P.O. #: CA-EI-C026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: NA

**Attention: Kinross Project**

WSP E & I Canada Limited
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/03/21**
Report #: R8075535
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C468404**

**Received: 2024/03/07, 08:39**

analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key

Cristina (Maria) Bacchus
Project Manager
21 Mar 2024 15:28:46

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C468404
Report Date: 2024/03/21

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: CA-EI-C026300307
Sampler Initials: CB

## RESULTS OF ANALYSES OF AIR

| **Bureau Veritas ID** | | YOG796 | |
|---|---|---|---|
| **Sampling Date** | | 2024/03/02 | |
| **COC Number** | | NA | |
| | **UNITS** | **MARCH 2ND SUMMA/GC411475** | **QC Batch** |
| **Volatile Organics** | | | |
| Pressure on Receipt | psig | (-2.9) | 9280373 |
| QC Batch = Quality Control Batch | | | |



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## VOLATILE ORGANICS BY GC/MS (AIR)

| Bureau Veritas ID | | YOG796 | | | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2024/03/02 | | | | |
| COC Number | | NA | | | | |
| | UNITS | MARCH 2ND SUMMA/GC411475 | RDL | ug/m3 | DL (ug/m3) | QC Batch |
| **Volatile Organics** | | | | | | |
| 2-Propanone | ppbv | 0.98 | 0.12 | 2.32 | 0.285 | 9280372 |
| Dichlorodifluoromethane (FREON 12) | ppbv | 0.47 | 0.20 | 2.34 | 0.989 | 9280371 |
| 1,2-Dichlorotetrafluoroethane | ppbv | <0.17 | 0.17 | <1.19 | 1.19 | 9280371 |
| Chloromethane | ppbv | 0.56 | 0.30 | 1.16 | 0.620 | 9280371 |
| Vinyl Chloride | ppbv | <0.020 | 0.020 | <0.0511 | 0.0511 | 9280372 |
| Chloroethane | ppbv | <0.30 | 0.30 | <0.792 | 0.792 | 9280371 |
| 1,3-Butadiene | ppbv | <0.50 | 0.50 | <1.11 | 1.11 | 9280371 |
| Trichlorofluoromethane (FREON 11) | ppbv | 0.29 | 0.20 | 1.65 | 1.12 | 9280371 |
| Ethanol (ethyl alcohol) | ppbv | <1.0 | 1.0 | <1.88 | 1.88 | 9280371 |
| Trichlorotrifluoroethane | ppbv | <0.15 | 0.15 | <1.15 | 1.15 | 9280371 |
| 2-propanol | ppbv | <1.0 | 1.0 | <2.46 | 2.46 | 9280371 |
| Methyl Ethyl Ketone (2-Butanone) | ppbv | 0.20 | 0.10 | 0.586 | 0.295 | 9280372 |
| Methyl Isobutyl Ketone | ppbv | <0.10 | 0.10 | <0.410 | 0.410 | 9280372 |
| Methyl Butyl Ketone (2-Hexanone) | ppbv | <1.0 | 1.0 | <4.10 | 4.10 | 9280371 |
| Methyl t-butyl ether (MTBE) | ppbv | <0.10 | 0.10 | <0.361 | 0.361 | 9280372 |
| Ethyl Acetate | ppbv | <1.0 | 1.0 | <3.60 | 3.60 | 9280371 |
| 1,1-Dichloroethylene | ppbv | <0.050 | 0.050 | <0.198 | 0.198 | 9280372 |
| cis-1,2-Dichloroethylene | ppbv | <0.050 | 0.050 | <0.198 | 0.198 | 9280372 |
| trans-1,2-Dichloroethylene | ppbv | <0.10 | 0.10 | <0.396 | 0.396 | 9280372 |
| Methylene Chloride(Dichloromethane) | ppbv | 0.149 | 0.050 | 0.517 | 0.174 | 9280372 |
| Chloroform | ppbv | <0.040 | 0.040 | <0.195 | 0.195 | 9280372 |
| Carbon Tetrachloride | ppbv | 0.134 | 0.050 | 0.845 | 0.315 | 9280372 |
| 1,1-Dichloroethane | ppbv | <0.050 | 0.050 | <0.202 | 0.202 | 9280372 |
| 1,2-Dichloroethane | ppbv | 0.024 | 0.010 | 0.0966 | 0.0405 | 9280372 |
| Ethylene Dibromide | ppbv | <0.010 | 0.010 | <0.0768 | 0.0768 | 9280372 |
| 1,1,1-Trichloroethane | ppbv | <0.050 | 0.050 | <0.273 | 0.273 | 9280372 |
| 1,1,2-Trichloroethane | ppbv | <0.012 | 0.012 | <0.0655 | 0.0655 | 9280372 |
| 1,1,2,2-Tetrachloroethane | ppbv | <0.0027 | 0.0027 | <0.0185 | 0.0185 | 9280372 |
| cis-1,3-Dichloropropene | ppbv | <0.050 | 0.050 | <0.227 | 0.227 | 9280372 |
| trans-1,3-Dichloropropene | ppbv | <0.050 | 0.050 | <0.227 | 0.227 | 9280372 |
| 1,2-Dichloropropane | ppbv | <0.050 | 0.050 | <0.231 | 0.231 | 9280372 |
| Bromomethane | ppbv | <0.050 | 0.050 | <0.194 | 0.194 | 9280372 |
| Bromoform | ppbv | <0.10 | 0.10 | <1.03 | 1.03 | 9280372 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## VOLATILE ORGANICS BY GC/MS (AIR)

| Bureau Veritas ID | | YOG796 | | | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2024/03/02 | | | | |
| COC Number | | NA | | | | |
| | UNITS | MARCH 2ND SUMMA/GC411475 | RDL | ug/m3 | DL (ug/m3) | QC Batch |
| Bromodichloromethane | ppbv | <0.20 | 0.20 | <1.34 | 1.34 | 9280371 |
| Dibromochloromethane | ppbv | <0.20 | 0.20 | <1.70 | 1.70 | 9280371 |
| Trichloroethylene | ppbv | <0.050 | 0.050 | <0.269 | 0.269 | 9280372 |
| Tetrachloroethylene | ppbv | <0.050 | 0.050 | <0.339 | 0.339 | 9280372 |
| Benzene | ppbv | 0.162 | 0.050 | 0.516 | 0.160 | 9280372 |
| Toluene | ppbv | 0.067 | 0.050 | 0.252 | 0.188 | 9280372 |
| Ethylbenzene | ppbv | <0.050 | 0.050 | <0.217 | 0.217 | 9280372 |
| p+m-Xylene | ppbv | <0.10 | 0.10 | <0.434 | 0.434 | 9280372 |
| o-Xylene | ppbv | <0.050 | 0.050 | <0.217 | 0.217 | 9280372 |
| Styrene | ppbv | <0.050 | 0.050 | <0.213 | 0.213 | 9280372 |
| 4-ethyltoluene | ppbv | <0.50 | 0.50 | <2.46 | 2.46 | 9280371 |
| 1,3,5-Trimethylbenzene | ppbv | <0.50 | 0.50 | <2.45 | 2.45 | 9280371 |
| 1,2,4-Trimethylbenzene | ppbv | <0.50 | 0.50 | <2.45 | 2.45 | 9280371 |
| Chlorobenzene | ppbv | <0.050 | 0.050 | <0.230 | 0.230 | 9280372 |
| Benzyl chloride | ppbv | <0.50 | 0.50 | <2.59 | 2.59 | 9280371 |
| 1,3-Dichlorobenzene | ppbv | <0.40 | 0.40 | <2.40 | 2.40 | 9280371 |
| 1,4-Dichlorobenzene | ppbv | <0.050 | 0.050 | <0.301 | 0.301 | 9280372 |
| 1,2-Dichlorobenzene | ppbv | <0.050 | 0.050 | <0.301 | 0.301 | 9280372 |
| 1,2,4-Trichlorobenzene | ppbv | <0.10 | 0.10 | <0.742 | 0.742 | 9280372 |
| Hexachlorobutadiene | ppbv | <0.0047 | 0.0047 | <0.0501 | 0.0501 | 9280372 |
| Hexane | ppbv | <0.10 | 0.10 | <0.352 | 0.352 | 9280372 |
| Heptane | ppbv | <0.30 | 0.30 | <1.23 | 1.23 | 9280371 |
| Cyclohexane | ppbv | <0.20 | 0.20 | <0.688 | 0.688 | 9280371 |
| Tetrahydrofuran | ppbv | <0.40 | 0.40 | <1.18 | 1.18 | 9280371 |
| 1,4-Dioxane | ppbv | <1.0 | 1.0 | <3.60 | 3.60 | 9280371 |
| Naphthalene | ppbv | <0.10 | 0.10 | <0.524 | 0.524 | 9280372 |
| Total Xylenes | ppbv | <0.15 | 0.15 | <0.651 | 0.651 | 9280372 |
| 1,1,1,2-Tetrachloroethane | ppbv | <0.021 | 0.021 | <0.144 | 0.144 | 9280372 |
| Vinyl Bromide | ppbv | <0.20 | 0.20 | <0.875 | 0.875 | 9280371 |
| Propene | ppbv | <0.50 | 0.50 | <0.861 | 0.861 | 9280371 |
| 2,2,4-Trimethylpentane | ppbv | <0.20 | 0.20 | <0.934 | 0.934 | 9280371 |
| Carbon Disulfide | ppbv | <0.50 | 0.50 | <1.56 | 1.56 | 9280371 |
| Vinyl Acetate | ppbv | <0.20 | 0.20 | <0.704 | 0.704 | 9280371 |

RDL = Reportable Detection Limit
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## VOLATILE ORGANICS BY GC/MS (AIR)

| **Bureau Veritas ID** | | YOG796 | | | | |
|---|---|---|---|---|---|---|
| **Sampling Date** | | 2024/03/02 | | | | |
| **COC Number** | | NA | | | | |
| | **UNITS** | **MARCH 2ND SUMMA/GC411475** | **RDL** | **ug/m3** | **DL (ug/m3)** | **QC Batch** |
| **Surrogate Recovery (%)** | | | | | | |
| Bromochloromethane | % | 96 | | N/A | N/A | 9280372 |
| D5-Chlorobenzene | % | 88 | | N/A | N/A | 9280372 |
| Difluorobenzene | % | 86 | | N/A | N/A | 9280372 |
| Bromochloromethane | % | 96 | | N/A | N/A | 9280371 |
| D5-Chlorobenzene | % | 88 | | N/A | N/A | 9280371 |
| Difluorobenzene | % | 86 | | N/A | N/A | 9280371 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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## GENERAL COMMENTS

**Results relate only to the items tested.**



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## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9280371 | ANE | Spiked Blank | Bromochloromethane | 2024/03/18 | | 101 | % | 60 - 140 |
| | | | D5-Chlorobenzene | 2024/03/18 | | 102 | % | 60 - 140 |
| | | | Difluorobenzene | 2024/03/18 | | 102 | % | 60 - 140 |
| | | | Dichlorodifluoromethane (FREON 12) | 2024/03/18 | | 96 | % | 70 - 130 |
| | | | 1,2-Dichlorotetrafluoroethane | 2024/03/18 | | 103 | % | 70 - 130 |
| | | | Chloromethane | 2024/03/18 | | 99 | % | 70 - 130 |
| | | | Chloroethane | 2024/03/18 | | 105 | % | 70 - 130 |
| | | | 1,3-Butadiene | 2024/03/18 | | 103 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2024/03/18 | | 97 | % | 70 - 130 |
| | | | Ethanol (ethyl alcohol) | 2024/03/18 | | 79 | % | 70 - 130 |
| | | | Trichlorotrifluoroethane | 2024/03/18 | | 106 | % | 70 - 130 |
| | | | 2-propanol | 2024/03/18 | | 90 | % | 70 - 130 |
| | | | Methyl Butyl Ketone (2-Hexanone) | 2024/03/18 | | 89 | % | 70 - 130 |
| | | | Ethyl Acetate | 2024/03/18 | | 92 | % | 70 - 130 |
| | | | Bromodichloromethane | 2024/03/18 | | 105 | % | 70 - 130 |
| | | | Dibromochloromethane | 2024/03/18 | | 120 | % | 70 - 130 |
| | | | 4-ethyltoluene | 2024/03/18 | | 99 | % | 70 - 130 |
| | | | 1,3,5-Trimethylbenzene | 2024/03/18 | | 99 | % | 70 - 130 |
| | | | 1,2,4-Trimethylbenzene | 2024/03/18 | | 97 | % | 70 - 130 |
| | | | Benzyl chloride | 2024/03/18 | | 127 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2024/03/18 | | 94 | % | 70 - 130 |
| | | | Heptane | 2024/03/18 | | 100 | % | 70 - 130 |
| | | | Cyclohexane | 2024/03/18 | | 102 | % | 70 - 130 |
| | | | Tetrahydrofuran | 2024/03/18 | | 91 | % | 70 - 130 |
| | | | 1,4-Dioxane | 2024/03/18 | | 102 | % | 70 - 130 |
| | | | Vinyl Bromide | 2024/03/18 | | 93 | % | 70 - 130 |
| | | | Propene | 2024/03/18 | | 92 | % | 70 - 130 |
| | | | 2,2,4-Trimethylpentane | 2024/03/18 | | 103 | % | 70 - 130 |
| | | | Carbon Disulfide | 2024/03/18 | | 99 | % | 70 - 130 |
| | | | Vinyl Acetate | 2024/03/18 | | 100 | % | 70 - 130 |
| 9280371 | ANE | Method Blank | Bromochloromethane | 2024/03/18 | | 106 | % | 60 - 140 |
| | | | D5-Chlorobenzene | 2024/03/18 | | 85 | % | 60 - 140 |
| | | | Difluorobenzene | 2024/03/18 | | 97 | % | 60 - 140 |
| | | | Dichlorodifluoromethane (FREON 12) | 2024/03/18 | <0.20 | | ppbv | |
| | | | 1,2-Dichlorotetrafluoroethane | 2024/03/18 | <0.17 | | ppbv | |
| | | | Chloromethane | 2024/03/18 | <0.30 | | ppbv | |
| | | | Chloroethane | 2024/03/18 | <0.30 | | ppbv | |
| | | | 1,3-Butadiene | 2024/03/18 | <0.50 | | ppbv | |
| | | | Trichlorofluoromethane (FREON 11) | 2024/03/18 | <0.20 | | ppbv | |
| | | | Ethanol (ethyl alcohol) | 2024/03/18 | <1.0 | | ppbv | |
| | | | Trichlorotrifluoroethane | 2024/03/18 | <0.15 | | ppbv | |
| | | | 2-propanol | 2024/03/18 | <1.0 | | ppbv | |
| | | | Methyl Butyl Ketone (2-Hexanone) | 2024/03/18 | <1.0 | | ppbv | |
| | | | Ethyl Acetate | 2024/03/18 | <1.0 | | ppbv | |
| | | | Bromodichloromethane | 2024/03/18 | <0.20 | | ppbv | |
| | | | Dibromochloromethane | 2024/03/18 | <0.20 | | ppbv | |
| | | | 4-ethyltoluene | 2024/03/18 | <0.50 | | ppbv | |
| | | | 1,3,5-Trimethylbenzene | 2024/03/18 | <0.50 | | ppbv | |
| | | | 1,2,4-Trimethylbenzene | 2024/03/18 | <0.50 | | ppbv | |
| | | | Benzyl chloride | 2024/03/18 | <0.50 | | ppbv | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | 1,3-Dichlorobenzene | 2024/03/18 | <0.40 | | ppbv | |
| | | | Heptane | 2024/03/18 | <0.30 | | ppbv | |
| | | | Cyclohexane | 2024/03/18 | <0.20 | | ppbv | |
| | | | Tetrahydrofuran | 2024/03/18 | <0.40 | | ppbv | |
| | | | 1,4-Dioxane | 2024/03/18 | <1.0 | | ppbv | |
| | | | Vinyl Bromide | 2024/03/18 | <0.20 | | ppbv | |
| | | | Propene | 2024/03/18 | <0.50 | | ppbv | |
| | | | 2,2,4-Trimethylpentane | 2024/03/18 | <0.20 | | ppbv | |
| | | | Carbon Disulfide | 2024/03/18 | <0.50 | | ppbv | |
| | | | Vinyl Acetate | 2024/03/18 | <0.20 | | ppbv | |
| 9280371 | ANE | RPD [YOG796-01] | Dichlorodifluoromethane (FREON 12) | 2024/03/18 | 3.1 | | % | 25 |
| | | | 1,2-Dichlorotetrafluoroethane | 2024/03/18 | NC | | % | 25 |
| | | | Chloromethane | 2024/03/18 | 2.8 | | % | 25 |
| | | | Chloroethane | 2024/03/18 | NC | | % | 25 |
| | | | 1,3-Butadiene | 2024/03/18 | NC | | % | 25 |
| | | | Trichlorofluoromethane (FREON 11) | 2024/03/18 | 1.9 | | % | 25 |
| | | | Ethanol (ethyl alcohol) | 2024/03/18 | NC | | % | 25 |
| | | | Trichlorotrifluoroethane | 2024/03/18 | NC | | % | 25 |
| | | | 2-propanol | 2024/03/18 | NC | | % | 25 |
| | | | Methyl Butyl Ketone (2-Hexanone) | 2024/03/18 | NC | | % | 25 |
| | | | Ethyl Acetate | 2024/03/18 | NC | | % | 25 |
| | | | Bromodichloromethane | 2024/03/18 | NC | | % | 25 |
| | | | Dibromochloromethane | 2024/03/18 | NC | | % | 25 |
| | | | 4-ethyltoluene | 2024/03/18 | NC | | % | 25 |
| | | | 1,3,5-Trimethylbenzene | 2024/03/18 | NC | | % | 25 |
| | | | 1,2,4-Trimethylbenzene | 2024/03/18 | NC | | % | 25 |
| | | | Benzyl chloride | 2024/03/18 | NC | | % | 25 |
| | | | 1,3-Dichlorobenzene | 2024/03/18 | NC | | % | 25 |
| | | | Heptane | 2024/03/18 | NC | | % | 25 |
| | | | Cyclohexane | 2024/03/18 | NC | | % | 25 |
| | | | Tetrahydrofuran | 2024/03/18 | NC | | % | 25 |
| | | | 1,4-Dioxane | 2024/03/18 | NC | | % | 25 |
| | | | Vinyl Bromide | 2024/03/18 | NC | | % | 25 |
| | | | Propene | 2024/03/18 | NC | | % | 25 |
| | | | 2,2,4-Trimethylpentane | 2024/03/18 | NC | | % | 25 |
| | | | Carbon Disulfide | 2024/03/18 | NC | | % | 25 |
| | | | Vinyl Acetate | 2024/03/18 | NC | | % | 25 |
| 9280372 | ANE | Spiked Blank | 2-Propanone | 2024/03/18 | | 88 | % | 70 - 130 |
| | | | Bromochloromethane | 2024/03/18 | | 101 | % | 60 - 140 |
| | | | D5-Chlorobenzene | 2024/03/18 | | 102 | % | 60 - 140 |
| | | | Difluorobenzene | 2024/03/18 | | 102 | % | 60 - 140 |
| | | | Vinyl Chloride | 2024/03/18 | | 103 | % | 70 - 130 |
| | | | Methyl Ethyl Ketone (2-Butanone) | 2024/03/18 | | 89 | % | 70 - 130 |
| | | | Methyl Isobutyl Ketone | 2024/03/18 | | 91 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2024/03/18 | | 78 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2024/03/18 | | 109 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2024/03/18 | | 91 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2024/03/18 | | 92 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2024/03/18 | | 96 | % | 70 - 130 |
| | | | Chloroform | 2024/03/18 | | 99 | % | 70 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Carbon Tetrachloride | 2024/03/18 | | 131 (1) | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2024/03/18 | | 93 | % | 70 - 130 |
| | | | 1,2-Dichloroethane | 2024/03/18 | | 91 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2024/03/18 | | 102 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2024/03/18 | | 107 | % | 70 - 130 |
| | | | 1,1,2-Trichloroethane | 2024/03/18 | | 101 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2024/03/18 | | 102 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2024/03/18 | | 107 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2024/03/18 | | 114 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2024/03/18 | | 101 | % | 70 - 130 |
| | | | Bromomethane | 2024/03/18 | | 96 | % | 70 - 130 |
| | | | Bromoform | 2024/03/18 | | 124 | % | 70 - 130 |
| | | | Trichloroethylene | 2024/03/18 | | 102 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2024/03/18 | | 99 | % | 70 - 130 |
| | | | Benzene | 2024/03/18 | | 100 | % | 70 - 130 |
| | | | Toluene | 2024/03/18 | | 95 | % | 70 - 130 |
| | | | Ethylbenzene | 2024/03/18 | | 93 | % | 70 - 130 |
| | | | p+m-Xylene | 2024/03/18 | | 97 | % | 70 - 130 |
| | | | o-Xylene | 2024/03/18 | | 96 | % | 70 - 130 |
| | | | Styrene | 2024/03/18 | | 101 | % | 70 - 130 |
| | | | Chlorobenzene | 2024/03/18 | | 97 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2024/03/18 | | 97 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2024/03/18 | | 95 | % | 70 - 130 |
| | | | 1,2,4-Trichlorobenzene | 2024/03/18 | | 92 | % | 70 - 130 |
| | | | Hexachlorobutadiene | 2024/03/18 | | 82 | % | 70 - 130 |
| | | | Hexane | 2024/03/18 | | 94 | % | 70 - 130 |
| | | | Naphthalene | 2024/03/18 | | 100 | % | 70 - 130 |
| | | | Total Xylenes | 2024/03/18 | | 97 | % | 70 - 130 |
| | | | 1,1,1,2-Tetrachloroethane | 2024/03/18 | | 120 | % | 70 - 130 |
| 9280372 | ANE | Method Blank | 2-Propanone | 2024/03/18 | <0.12 | | ppbv | |
| | | | Bromochloromethane | 2024/03/18 | | 106 | % | 60 - 140 |
| | | | D5-Chlorobenzene | 2024/03/18 | | 85 | % | 60 - 140 |
| | | | Difluorobenzene | 2024/03/18 | | 97 | % | 60 - 140 |
| | | | Vinyl Chloride | 2024/03/18 | <0.020 | | ppbv | |
| | | | Methyl Ethyl Ketone (2-Butanone) | 2024/03/18 | <0.10 | | ppbv | |
| | | | Methyl Isobutyl Ketone | 2024/03/18 | <0.10 | | ppbv | |
| | | | Methyl t-butyl ether (MTBE) | 2024/03/18 | <0.10 | | ppbv | |
| | | | 1,1-Dichloroethylene | 2024/03/18 | <0.050 | | ppbv | |
| | | | cis-1,2-Dichloroethylene | 2024/03/18 | <0.050 | | ppbv | |
| | | | trans-1,2-Dichloroethylene | 2024/03/18 | <0.10 | | ppbv | |
| | | | Methylene Chloride(Dichloromethane) | 2024/03/18 | <0.050 | | ppbv | |
| | | | Chloroform | 2024/03/18 | <0.040 | | ppbv | |
| | | | Carbon Tetrachloride | 2024/03/18 | <0.050 | | ppbv | |
| | | | 1,1-Dichloroethane | 2024/03/18 | <0.050 | | ppbv | |
| | | | 1,2-Dichloroethane | 2024/03/18 | <0.010 | | ppbv | |
| | | | Ethylene Dibromide | 2024/03/18 | <0.010 | | ppbv | |
| | | | 1,1,1-Trichloroethane | 2024/03/18 | <0.050 | | ppbv | |
| | | | 1,1,2-Trichloroethane | 2024/03/18 | <0.012 | | ppbv | |
| | | | 1,1,2,2-Tetrachloroethane | 2024/03/18 | <0.0027 | | ppbv | |
| | | | cis-1,3-Dichloropropene | 2024/03/18 | <0.050 | | ppbv | |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | trans-1,3-Dichloropropene | 2024/03/18 | <0.050 | | ppbv | |
| | | | 1,2-Dichloropropane | 2024/03/18 | <0.050 | | ppbv | |
| | | | Bromomethane | 2024/03/18 | <0.050 | | ppbv | |
| | | | Bromoform | 2024/03/18 | <0.10 | | ppbv | |
| | | | Trichloroethylene | 2024/03/18 | <0.050 | | ppbv | |
| | | | Tetrachloroethylene | 2024/03/18 | <0.050 | | ppbv | |
| | | | Benzene | 2024/03/18 | <0.050 | | ppbv | |
| | | | Toluene | 2024/03/18 | <0.050 | | ppbv | |
| | | | Ethylbenzene | 2024/03/18 | <0.050 | | ppbv | |
| | | | p+m-Xylene | 2024/03/18 | <0.10 | | ppbv | |
| | | | o-Xylene | 2024/03/18 | <0.050 | | ppbv | |
| | | | Styrene | 2024/03/18 | <0.050 | | ppbv | |
| | | | Chlorobenzene | 2024/03/18 | <0.050 | | ppbv | |
| | | | 1,4-Dichlorobenzene | 2024/03/18 | <0.050 | | ppbv | |
| | | | 1,2-Dichlorobenzene | 2024/03/18 | <0.050 | | ppbv | |
| | | | 1,2,4-Trichlorobenzene | 2024/03/18 | <0.10 | | ppbv | |
| | | | Hexachlorobutadiene | 2024/03/18 | <0.0047 | | ppbv | |
| | | | Hexane | 2024/03/18 | <0.10 | | ppbv | |
| | | | Naphthalene | 2024/03/18 | <0.10 | | ppbv | |
| | | | Total Xylenes | 2024/03/18 | <0.15 | | ppbv | |
| | | | 1,1,1,2-Tetrachloroethane | 2024/03/18 | <0.021 | | ppbv | |
| 9280372 | ANE | RPD [YOG796-01] | 2-Propanone | 2024/03/18 | NC | | % | N/A |
| | | | Vinyl Chloride | 2024/03/18 | NC | | % | 25 |
| | | | Methyl Ethyl Ketone (2-Butanone) | 2024/03/18 | 6.5 | | % | 25 |
| | | | Methyl Isobutyl Ketone | 2024/03/18 | NC | | % | 25 |
| | | | Methyl t-butyl ether (MTBE) | 2024/03/18 | NC | | % | 25 |
| | | | 1,1-Dichloroethylene | 2024/03/18 | NC | | % | 25 |
| | | | cis-1,2-Dichloroethylene | 2024/03/18 | NC | | % | 25 |
| | | | trans-1,2-Dichloroethylene | 2024/03/18 | NC | | % | 25 |
| | | | Methylene Chloride(Dichloromethane) | 2024/03/18 | 3.5 | | % | 25 |
| | | | Chloroform | 2024/03/18 | NC | | % | 25 |
| | | | Carbon Tetrachloride | 2024/03/18 | 2.0 | | % | 25 |
| | | | 1,1-Dichloroethane | 2024/03/18 | NC | | % | 25 |
| | | | 1,2-Dichloroethane | 2024/03/18 | 4.6 | | % | 25 |
| | | | Ethylene Dibromide | 2024/03/18 | NC | | % | 25 |
| | | | 1,1,1-Trichloroethane | 2024/03/18 | NC | | % | 25 |
| | | | 1,1,2-Trichloroethane | 2024/03/18 | NC | | % | 25 |
| | | | 1,1,2,2-Tetrachloroethane | 2024/03/18 | NC | | % | 25 |
| | | | cis-1,3-Dichloropropene | 2024/03/18 | NC | | % | 25 |
| | | | trans-1,3-Dichloropropene | 2024/03/18 | NC | | % | 25 |
| | | | 1,2-Dichloropropane | 2024/03/18 | NC | | % | 25 |
| | | | Bromomethane | 2024/03/18 | NC | | % | 25 |
| | | | Bromoform | 2024/03/18 | NC | | % | 25 |
| | | | Trichloroethylene | 2024/03/18 | NC | | % | 25 |
| | | | Tetrachloroethylene | 2024/03/18 | NC | | % | 25 |
| | | | Benzene | 2024/03/18 | 1.9 | | % | 25 |
| | | | Toluene | 2024/03/18 | 0.13 | | % | 25 |
| | | | Ethylbenzene | 2024/03/18 | NC | | % | 25 |
| | | | p+m-Xylene | 2024/03/18 | NC | | % | 25 |
| | | | o-Xylene | 2024/03/18 | NC | | % | 25 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Styrene | 2024/03/18 | NC | | % | 25 |
| | | | Chlorobenzene | 2024/03/18 | NC | | % | 25 |
| | | | 1,4-Dichlorobenzene | 2024/03/18 | NC | | % | 25 |
| | | | 1,2-Dichlorobenzene | 2024/03/18 | NC | | % | 25 |
| | | | 1,2,4-Trichlorobenzene | 2024/03/18 | NC | | % | 25 |
| | | | Hexachlorobutadiene | 2024/03/18 | NC | | % | 25 |
| | | | Hexane | 2024/03/18 | NC | | % | 25 |
| | | | Naphthalene | 2024/03/18 | NC | | % | 25 |
| | | | Total Xylenes | 2024/03/18 | NC | | % | 25 |
| | | | 1,1,1,2-Tetrachloroethane | 2024/03/18 | NC | | % | 25 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



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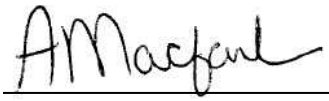
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C468404
Report Date: 2024/03/21

WSP E & I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: CA-EI-C026300307
Sampler Initials: CB

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anke Macfarlane, Laboratory Manager, VOC

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: EICAC026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: NA

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/04/19**
Report #: R8114728
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4A2195**
**Received: 2024/04/08, 08:59**

Sample Matrix: Air
# Samples Received: 1

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | 1 | N/A | 2024/04/15 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air by GC/MS/SIM (1) | 1 | N/A | 2024/04/17 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air (TO-15) (2) | 1 | N/A | 2024/04/17 | BRL SOP-00304 | EPA TO-15 m |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

(2) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target

Your P.O. #: EICAC026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: NA

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/04/19**
Report #: R8114728
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4A2195**

**Received: 2024/04/08, 08:59**

analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key

Jade Browne
Project Manager Assistant - Air
19 Apr 2024 13:59:15

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C4A2195
Report Date: 2024/04/19

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: CB

## RESULTS OF ANALYSES OF AIR

| **Bureau Veritas ID** | | YVF942 | |
|---|---|---|---|
| **Sampling Date** | | 2024/04/02 | |
| **COC Number** | | NA | |
| | **UNITS** | **APRIL 1ST SUMMA/GC434524** | **QC Batch** |
| **Volatile Organics** | | | |
| Pressure on Receipt | psig | (-1.3) | 9340667 |
| QC Batch = Quality Control Batch | | | |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## VOLATILE ORGANICS BY GC/MS (AIR)

| Bureau Veritas ID | | YVF942 | | | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2024/04/02 | | | | |
| COC Number | | NA | | | | |
| | UNITS | APRIL 1ST SUMMA/GC434524 | RDL | ug/m3 | DL (ug/m3) | QC Batch |
| **Volatile Organics** | | | | | | |
| 2-Propanone | ppbv | 1.46 | 0.17 | 3.47 | 0.404 | 9340666 |
| Dichlorodifluoromethane (FREON 12) | ppbv | 0.46 | 0.20 | 2.25 | 0.989 | 9338656 |
| 1,2-Dichlorotetrafluoroethane | ppbv | <0.17 | 0.17 | <1.19 | 1.19 | 9338656 |
| Chloromethane | ppbv | 0.54 | 0.30 | 1.12 | 0.620 | 9338656 |
| Vinyl Chloride | ppbv | <0.020 | 0.020 | <0.0511 | 0.0511 | 9340666 |
| Chloroethane | ppbv | <0.30 | 0.30 | <0.792 | 0.792 | 9338656 |
| 1,3-Butadiene | ppbv | <0.50 | 0.50 | <1.11 | 1.11 | 9338656 |
| Trichlorofluoromethane (FREON 11) | ppbv | 0.28 | 0.20 | 1.56 | 1.12 | 9338656 |
| Ethanol (ethyl alcohol) | ppbv | <1.0 | 1.0 | <1.88 | 1.88 | 9338656 |
| Trichlorotrifluoroethane | ppbv | <0.15 | 0.15 | <1.15 | 1.15 | 9338656 |
| 2-propanol | ppbv | <1.0 | 1.0 | <2.46 | 2.46 | 9338656 |
| Methyl Ethyl Ketone (2-Butanone) | ppbv | 0.18 | 0.10 | 0.537 | 0.295 | 9340666 |
| Methyl Isobutyl Ketone | ppbv | <0.10 | 0.10 | <0.410 | 0.410 | 9340666 |
| Methyl Butyl Ketone (2-Hexanone) | ppbv | <1.0 | 1.0 | <4.10 | 4.10 | 9338656 |
| Methyl t-butyl ether (MTBE) | ppbv | <0.10 | 0.10 | <0.361 | 0.361 | 9340666 |
| Ethyl Acetate | ppbv | <1.0 | 1.0 | <3.60 | 3.60 | 9338656 |
| 1,1-Dichloroethylene | ppbv | <0.050 | 0.050 | <0.198 | 0.198 | 9340666 |
| cis-1,2-Dichloroethylene | ppbv | <0.050 | 0.050 | <0.198 | 0.198 | 9340666 |
| trans-1,2-Dichloroethylene | ppbv | <0.10 | 0.10 | <0.396 | 0.396 | 9340666 |
| Methylene Chloride(Dichloromethane) | ppbv | 0.152 | 0.050 | 0.529 | 0.174 | 9340666 |
| Chloroform | ppbv | <0.040 | 0.040 | <0.195 | 0.195 | 9340666 |
| Carbon Tetrachloride | ppbv | 0.117 | 0.050 | 0.738 | 0.315 | 9340666 |
| 1,1-Dichloroethane | ppbv | <0.050 | 0.050 | <0.202 | 0.202 | 9340666 |
| 1,2-Dichloroethane | ppbv | 0.025 | 0.010 | 0.101 | 0.0405 | 9340666 |
| Ethylene Dibromide | ppbv | <0.010 | 0.010 | <0.0768 | 0.0768 | 9340666 |
| 1,1,1-Trichloroethane | ppbv | <0.050 | 0.050 | <0.273 | 0.273 | 9340666 |
| 1,1,2-Trichloroethane | ppbv | <0.012 | 0.012 | <0.0655 | 0.0655 | 9340666 |
| 1,1,2,2-Tetrachloroethane | ppbv | <0.0027 | 0.0027 | <0.0185 | 0.0185 | 9340666 |
| cis-1,3-Dichloropropene | ppbv | <0.050 | 0.050 | <0.227 | 0.227 | 9340666 |
| trans-1,3-Dichloropropene | ppbv | <0.050 | 0.050 | <0.227 | 0.227 | 9340666 |
| 1,2-Dichloropropane | ppbv | <0.050 | 0.050 | <0.231 | 0.231 | 9340666 |
| Bromomethane | ppbv | <0.050 | 0.050 | <0.194 | 0.194 | 9340666 |
| Bromoform | ppbv | <0.10 | 0.10 | <1.03 | 1.03 | 9340666 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## VOLATILE ORGANICS BY GC/MS (AIR)

| Bureau Veritas ID | | YVF942 | | | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2024/04/02 | | | | |
| COC Number | | NA | | | | |
| | UNITS | APRIL 1ST SUMMA/GC434524 | RDL | ug/m3 | DL (ug/m3) | QC Batch |
| Bromodichloromethane | ppbv | <0.20 | 0.20 | <1.34 | 1.34 | 9338656 |
| Dibromochloromethane | ppbv | <0.20 | 0.20 | <1.70 | 1.70 | 9338656 |
| Trichloroethylene | ppbv | <0.050 | 0.050 | <0.269 | 0.269 | 9340666 |
| Tetrachloroethylene | ppbv | <0.050 | 0.050 | <0.339 | 0.339 | 9340666 |
| Benzene | ppbv | 0.088 | 0.050 | 0.281 | 0.160 | 9340666 |
| Toluene | ppbv | <0.050 | 0.050 | <0.188 | 0.188 | 9340666 |
| Ethylbenzene | ppbv | <0.050 | 0.050 | <0.217 | 0.217 | 9340666 |
| p+m-Xylene | ppbv | <0.10 | 0.10 | <0.434 | 0.434 | 9340666 |
| o-Xylene | ppbv | <0.050 | 0.050 | <0.217 | 0.217 | 9340666 |
| Styrene | ppbv | <0.050 | 0.050 | <0.213 | 0.213 | 9340666 |
| 4-ethyltoluene | ppbv | <0.50 | 0.50 | <2.46 | 2.46 | 9338656 |
| 1,3,5-Trimethylbenzene | ppbv | <0.50 | 0.50 | <2.45 | 2.45 | 9338656 |
| 1,2,4-Trimethylbenzene | ppbv | <0.50 | 0.50 | <2.45 | 2.45 | 9338656 |
| Chlorobenzene | ppbv | <0.050 | 0.050 | <0.230 | 0.230 | 9340666 |
| Benzyl chloride | ppbv | <0.50 | 0.50 | <2.59 | 2.59 | 9338656 |
| 1,3-Dichlorobenzene | ppbv | <0.40 | 0.40 | <2.40 | 2.40 | 9338656 |
| 1,4-Dichlorobenzene | ppbv | <0.050 | 0.050 | <0.301 | 0.301 | 9340666 |
| 1,2-Dichlorobenzene | ppbv | <0.050 | 0.050 | <0.301 | 0.301 | 9340666 |
| 1,2,4-Trichlorobenzene | ppbv | <0.10 | 0.10 | <0.742 | 0.742 | 9340666 |
| Hexachlorobutadiene | ppbv | <0.0047 | 0.0047 | <0.0501 | 0.0501 | 9340666 |
| Hexane | ppbv | <0.10 | 0.10 | <0.352 | 0.352 | 9340666 |
| Heptane | ppbv | <0.30 | 0.30 | <1.23 | 1.23 | 9338656 |
| Cyclohexane | ppbv | <0.20 | 0.20 | <0.688 | 0.688 | 9338656 |
| Tetrahydrofuran | ppbv | <0.40 | 0.40 | <1.18 | 1.18 | 9338656 |
| 1,4-Dioxane | ppbv | <1.0 | 1.0 | <3.60 | 3.60 | 9338656 |
| Naphthalene | ppbv | <0.10 | 0.10 | <0.524 | 0.524 | 9340666 |
| Total Xylenes | ppbv | <0.15 | 0.15 | <0.651 | 0.651 | 9340666 |
| 1,1,1,2-Tetrachloroethane | ppbv | <0.021 | 0.021 | <0.144 | 0.144 | 9340666 |
| Vinyl Bromide | ppbv | <0.20 | 0.20 | <0.875 | 0.875 | 9338656 |
| Propene | ppbv | <0.50 | 0.50 | <0.861 | 0.861 | 9338656 |
| 2,2,4-Trimethylpentane | ppbv | <0.20 | 0.20 | <0.934 | 0.934 | 9338656 |
| Carbon Disulfide | ppbv | <0.50 | 0.50 | <1.56 | 1.56 | 9338656 |
| Vinyl Acetate | ppbv | <0.20 | 0.20 | <0.704 | 0.704 | 9338656 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## VOLATILE ORGANICS BY GC/MS (AIR)

| Bureau Veritas ID | | YVF942 | | | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2024/04/02 | | | | |
| COC Number | | NA | | | | |
| | UNITS | APRIL 1ST SUMMA/GC434524 | RDL | ug/m3 | DL (ug/m3) | QC Batch |
| **Surrogate Recovery (%)** | | | | | | |
| Bromochloromethane | % | 96 | | N/A | N/A | 9340666 |
| D5-Chlorobenzene | % | 82 | | N/A | N/A | 9340666 |
| Difluorobenzene | % | 81 | | N/A | N/A | 9340666 |
| Bromochloromethane | % | 96 | | N/A | N/A | 9338656 |
| D5-Chlorobenzene | % | 82 | | N/A | N/A | 9338656 |
| Difluorobenzene | % | 81 | | N/A | N/A | 9338656 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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## GENERAL COMMENTS

**Results relate only to the items tested.**



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## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9338656 | ANE | Spiked Blank | Bromochloromethane | 2024/04/17 | | 101 | % | 60 - 140 |
| | | | D5-Chlorobenzene | 2024/04/17 | | 104 | % | 60 - 140 |
| | | | Difluorobenzene | 2024/04/17 | | 104 | % | 60 - 140 |
| | | | Dichlorodifluoromethane (FREON 12) | 2024/04/17 | | 88 | % | 70 - 130 |
| | | | 1,2-Dichlorotetrafluoroethane | 2024/04/17 | | 91 | % | 70 - 130 |
| | | | Chloromethane | 2024/04/17 | | 94 | % | 70 - 130 |
| | | | Chloroethane | 2024/04/17 | | 93 | % | 70 - 130 |
| | | | 1,3-Butadiene | 2024/04/17 | | 100 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2024/04/17 | | 89 | % | 70 - 130 |
| | | | Ethanol (ethyl alcohol) | 2024/04/17 | | 83 | % | 70 - 130 |
| | | | Trichlorotrifluoroethane | 2024/04/17 | | 92 | % | 70 - 130 |
| | | | 2-propanol | 2024/04/17 | | 91 | % | 70 - 130 |
| | | | Methyl Butyl Ketone (2-Hexanone) | 2024/04/17 | | 94 | % | 70 - 130 |
| | | | Ethyl Acetate | 2024/04/17 | | 99 | % | 70 - 130 |
| | | | Bromodichloromethane | 2024/04/17 | | 91 | % | 70 - 130 |
| | | | Dibromochloromethane | 2024/04/17 | | 96 | % | 70 - 130 |
| | | | 4-ethyltoluene | 2024/04/17 | | 106 | % | 70 - 130 |
| | | | 1,3,5-Trimethylbenzene | 2024/04/17 | | 103 | % | 70 - 130 |
| | | | 1,2,4-Trimethylbenzene | 2024/04/17 | | 106 | % | 70 - 130 |
| | | | Benzyl chloride | 2024/04/17 | | 122 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2024/04/17 | | 96 | % | 70 - 130 |
| | | | Heptane | 2024/04/17 | | 108 | % | 70 - 130 |
| | | | Cyclohexane | 2024/04/17 | | 105 | % | 70 - 130 |
| | | | Tetrahydrofuran | 2024/04/17 | | 104 | % | 70 - 130 |
| | | | 1,4-Dioxane | 2024/04/17 | | 100 | % | 70 - 130 |
| | | | Vinyl Bromide | 2024/04/17 | | 87 | % | 70 - 130 |
| | | | Propene | 2024/04/17 | | 101 | % | 70 - 130 |
| | | | 2,2,4-Trimethylpentane | 2024/04/17 | | 106 | % | 70 - 130 |
| | | | Carbon Disulfide | 2024/04/17 | | 92 | % | 70 - 130 |
| | | | Vinyl Acetate | 2024/04/17 | | 105 | % | 70 - 130 |
| 9338656 | ANE | Method Blank | Bromochloromethane | 2024/04/17 | | 101 | % | 60 - 140 |
| | | | D5-Chlorobenzene | 2024/04/17 | | 75 | % | 60 - 140 |
| | | | Difluorobenzene | 2024/04/17 | | 83 | % | 60 - 140 |
| | | | Dichlorodifluoromethane (FREON 12) | 2024/04/17 | <0.20 | | ppbv | |
| | | | 1,2-Dichlorotetrafluoroethane | 2024/04/17 | <0.17 | | ppbv | |
| | | | Chloromethane | 2024/04/17 | <0.30 | | ppbv | |
| | | | Chloroethane | 2024/04/17 | <0.30 | | ppbv | |
| | | | 1,3-Butadiene | 2024/04/17 | <0.50 | | ppbv | |
| | | | Trichlorofluoromethane (FREON 11) | 2024/04/17 | <0.20 | | ppbv | |
| | | | Ethanol (ethyl alcohol) | 2024/04/17 | <1.0 | | ppbv | |
| | | | Trichlorotrifluoroethane | 2024/04/17 | <0.15 | | ppbv | |
| | | | 2-propanol | 2024/04/17 | <1.0 | | ppbv | |
| | | | Methyl Butyl Ketone (2-Hexanone) | 2024/04/17 | <1.0 | | ppbv | |
| | | | Ethyl Acetate | 2024/04/17 | <1.0 | | ppbv | |
| | | | Bromodichloromethane | 2024/04/17 | <0.20 | | ppbv | |
| | | | Dibromochloromethane | 2024/04/17 | <0.20 | | ppbv | |
| | | | 4-ethyltoluene | 2024/04/17 | <0.50 | | ppbv | |
| | | | 1,3,5-Trimethylbenzene | 2024/04/17 | <0.50 | | ppbv | |
| | | | 1,2,4-Trimethylbenzene | 2024/04/17 | <0.50 | | ppbv | |
| | | | Benzyl chloride | 2024/04/17 | <0.50 | | ppbv | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | 1,3-Dichlorobenzene | 2024/04/17 | <0.40 | | ppbv | |
| | | | Heptane | 2024/04/17 | <0.30 | | ppbv | |
| | | | Cyclohexane | 2024/04/17 | <0.20 | | ppbv | |
| | | | Tetrahydrofuran | 2024/04/17 | <0.40 | | ppbv | |
| | | | 1,4-Dioxane | 2024/04/17 | <1.0 | | ppbv | |
| | | | Vinyl Bromide | 2024/04/17 | <0.20 | | ppbv | |
| | | | Propene | 2024/04/17 | <0.50 | | ppbv | |
| | | | 2,2,4-Trimethylpentane | 2024/04/17 | <0.20 | | ppbv | |
| | | | Carbon Disulfide | 2024/04/17 | <0.50 | | ppbv | |
| | | | Vinyl Acetate | 2024/04/17 | <0.20 | | ppbv | |
| 9338656 | ANE | RPD [YVF942-01] | Dichlorodifluoromethane (FREON 12) | 2024/04/17 | 3.7 | | % | 25 |
| | | | 1,2-Dichlorotetrafluoroethane | 2024/04/17 | NC | | % | 25 |
| | | | Chloromethane | 2024/04/17 | 0 | | % | 25 |
| | | | Chloroethane | 2024/04/17 | NC | | % | 25 |
| | | | 1,3-Butadiene | 2024/04/17 | NC | | % | 25 |
| | | | Trichlorofluoromethane (FREON 11) | 2024/04/17 | 0.69 | | % | 25 |
| | | | Ethanol (ethyl alcohol) | 2024/04/17 | NC | | % | 25 |
| | | | Trichlorotrifluoroethane | 2024/04/17 | NC | | % | 25 |
| | | | 2-propanol | 2024/04/17 | NC | | % | 25 |
| | | | Methyl Butyl Ketone (2-Hexanone) | 2024/04/17 | NC | | % | 25 |
| | | | Ethyl Acetate | 2024/04/17 | NC | | % | 25 |
| | | | Bromodichloromethane | 2024/04/17 | NC | | % | 25 |
| | | | Dibromochloromethane | 2024/04/17 | NC | | % | 25 |
| | | | 4-ethyltoluene | 2024/04/17 | NC | | % | 25 |
| | | | 1,3,5-Trimethylbenzene | 2024/04/17 | NC | | % | 25 |
| | | | 1,2,4-Trimethylbenzene | 2024/04/17 | NC | | % | 25 |
| | | | Benzyl chloride | 2024/04/17 | NC | | % | 25 |
| | | | 1,3-Dichlorobenzene | 2024/04/17 | NC | | % | 25 |
| | | | Heptane | 2024/04/17 | NC | | % | 25 |
| | | | Cyclohexane | 2024/04/17 | NC | | % | 25 |
| | | | Tetrahydrofuran | 2024/04/17 | NC | | % | 25 |
| | | | 1,4-Dioxane | 2024/04/17 | NC | | % | 25 |
| | | | Vinyl Bromide | 2024/04/17 | NC | | % | 25 |
| | | | Propene | 2024/04/17 | NC | | % | 25 |
| | | | 2,2,4-Trimethylpentane | 2024/04/17 | NC | | % | 25 |
| | | | Carbon Disulfide | 2024/04/17 | NC | | % | 25 |
| | | | Vinyl Acetate | 2024/04/17 | NC | | % | 25 |
| 9340666 | ANE | Spiked Blank | 2-Propanone | 2024/04/17 | | 94 | % | 70 - 130 |
| | | | Bromochloromethane | 2024/04/17 | | 101 | % | 60 - 140 |
| | | | D5-Chlorobenzene | 2024/04/17 | | 104 | % | 60 - 140 |
| | | | Difluorobenzene | 2024/04/17 | | 104 | % | 60 - 140 |
| | | | Vinyl Chloride | 2024/04/17 | | 93 | % | 70 - 130 |
| | | | Methyl Ethyl Ketone (2-Butanone) | 2024/04/17 | | 98 | % | 70 - 130 |
| | | | Methyl Isobutyl Ketone | 2024/04/17 | | 97 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2024/04/17 | | 88 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2024/04/17 | | 86 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2024/04/17 | | 95 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2024/04/17 | | 95 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2024/04/17 | | 95 | % | 70 - 130 |
| | | | Chloroform | 2024/04/17 | | 95 | % | 70 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Carbon Tetrachloride | 2024/04/17 | | 99 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2024/04/17 | | 90 | % | 70 - 130 |
| | | | 1,2-Dichloroethane | 2024/04/17 | | 97 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2024/04/17 | | 94 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2024/04/17 | | 97 | % | 70 - 130 |
| | | | 1,1,2-Trichloroethane | 2024/04/17 | | 93 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2024/04/17 | | 90 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2024/04/17 | | 101 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2024/04/17 | | 106 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2024/04/17 | | 95 | % | 70 - 130 |
| | | | Bromomethane | 2024/04/17 | | 85 | % | 70 - 130 |
| | | | Bromoform | 2024/04/17 | | 97 | % | 70 - 130 |
| | | | Trichloroethylene | 2024/04/17 | | 97 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2024/04/17 | | 99 | % | 70 - 130 |
| | | | Benzene | 2024/04/17 | | 98 | % | 70 - 130 |
| | | | Toluene | 2024/04/17 | | 99 | % | 70 - 130 |
| | | | Ethylbenzene | 2024/04/17 | | 100 | % | 70 - 130 |
| | | | p+m-Xylene | 2024/04/17 | | 103 | % | 70 - 130 |
| | | | o-Xylene | 2024/04/17 | | 98 | % | 70 - 130 |
| | | | Styrene | 2024/04/17 | | 106 | % | 70 - 130 |
| | | | Chlorobenzene | 2024/04/17 | | 95 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2024/04/17 | | 99 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2024/04/17 | | 97 | % | 70 - 130 |
| | | | 1,2,4-Trichlorobenzene | 2024/04/17 | | 100 | % | 70 - 130 |
| | | | Hexachlorobutadiene | 2024/04/17 | | 87 | % | 70 - 130 |
| | | | Hexane | 2024/04/17 | | 101 | % | 70 - 130 |
| | | | Naphthalene | 2024/04/17 | | 115 | % | 70 - 130 |
| | | | Total Xylenes | 2024/04/17 | | 101 | % | 70 - 130 |
| | | | 1,1,1,2-Tetrachloroethane | 2024/04/17 | | 101 | % | 70 - 130 |
| 9340666 | ANE | Method Blank | 2-Propanone | 2024/04/17 | <0.17 | | ppbv | |
| | | | Bromochloromethane | 2024/04/17 | | 101 | % | 60 - 140 |
| | | | D5-Chlorobenzene | 2024/04/17 | | 75 | % | 60 - 140 |
| | | | Difluorobenzene | 2024/04/17 | | 83 | % | 60 - 140 |
| | | | Vinyl Chloride | 2024/04/17 | <0.020 | | ppbv | |
| | | | Methyl Ethyl Ketone (2-Butanone) | 2024/04/17 | <0.10 | | ppbv | |
| | | | Methyl Isobutyl Ketone | 2024/04/17 | <0.10 | | ppbv | |
| | | | Methyl t-butyl ether (MTBE) | 2024/04/17 | <0.10 | | ppbv | |
| | | | 1,1-Dichloroethylene | 2024/04/17 | <0.050 | | ppbv | |
| | | | cis-1,2-Dichloroethylene | 2024/04/17 | <0.050 | | ppbv | |
| | | | trans-1,2-Dichloroethylene | 2024/04/17 | <0.10 | | ppbv | |
| | | | Methylene Chloride(Dichloromethane) | 2024/04/17 | <0.050 | | ppbv | |
| | | | Chloroform | 2024/04/17 | <0.040 | | ppbv | |
| | | | Carbon Tetrachloride | 2024/04/17 | <0.050 | | ppbv | |
| | | | 1,1-Dichloroethane | 2024/04/17 | <0.050 | | ppbv | |
| | | | 1,2-Dichloroethane | 2024/04/17 | <0.010 | | ppbv | |
| | | | Ethylene Dibromide | 2024/04/17 | <0.010 | | ppbv | |
| | | | 1,1,1-Trichloroethane | 2024/04/17 | <0.050 | | ppbv | |
| | | | 1,1,2-Trichloroethane | 2024/04/17 | <0.012 | | ppbv | |
| | | | 1,1,2,2-Tetrachloroethane | 2024/04/17 | <0.0027 | | ppbv | |
| | | | cis-1,3-Dichloropropene | 2024/04/17 | <0.050 | | ppbv | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | trans-1,3-Dichloropropene | 2024/04/17 | <0.050 | | ppbv | |
| | | | 1,2-Dichloropropane | 2024/04/17 | <0.050 | | ppbv | |
| | | | Bromomethane | 2024/04/17 | <0.050 | | ppbv | |
| | | | Bromoform | 2024/04/17 | <0.10 | | ppbv | |
| | | | Trichloroethylene | 2024/04/17 | <0.050 | | ppbv | |
| | | | Tetrachloroethylene | 2024/04/17 | <0.050 | | ppbv | |
| | | | Benzene | 2024/04/17 | <0.050 | | ppbv | |
| | | | Toluene | 2024/04/17 | <0.050 | | ppbv | |
| | | | Ethylbenzene | 2024/04/17 | <0.050 | | ppbv | |
| | | | p+m-Xylene | 2024/04/17 | <0.10 | | ppbv | |
| | | | o-Xylene | 2024/04/17 | <0.050 | | ppbv | |
| | | | Styrene | 2024/04/17 | <0.050 | | ppbv | |
| | | | Chlorobenzene | 2024/04/17 | <0.050 | | ppbv | |
| | | | 1,4-Dichlorobenzene | 2024/04/17 | <0.050 | | ppbv | |
| | | | 1,2-Dichlorobenzene | 2024/04/17 | <0.050 | | ppbv | |
| | | | 1,2,4-Trichlorobenzene | 2024/04/17 | <0.10 | | ppbv | |
| | | | Hexachlorobutadiene | 2024/04/17 | <0.0047 | | ppbv | |
| | | | Hexane | 2024/04/17 | <0.10 | | ppbv | |
| | | | Naphthalene | 2024/04/17 | <0.10 | | ppbv | |
| | | | Total Xylenes | 2024/04/17 | <0.15 | | ppbv | |
| | | | 1,1,1,2-Tetrachloroethane | 2024/04/17 | <0.021 | | ppbv | |
| 9340666 | ANE | RPD [YVF942-01] | 2-Propanone | 2024/04/17 | NC | | % | N/A |
| | | | Vinyl Chloride | 2024/04/17 | NC | | % | 25 |
| | | | Methyl Ethyl Ketone (2-Butanone) | 2024/04/17 | 0.99 | | % | 25 |
| | | | Methyl Isobutyl Ketone | 2024/04/17 | NC | | % | 25 |
| | | | Methyl t-butyl ether (MTBE) | 2024/04/17 | NC | | % | 25 |
| | | | 1,1-Dichloroethylene | 2024/04/17 | NC | | % | 25 |
| | | | cis-1,2-Dichloroethylene | 2024/04/17 | NC | | % | 25 |
| | | | trans-1,2-Dichloroethylene | 2024/04/17 | NC | | % | 25 |
| | | | Methylene Chloride(Dichloromethane) | 2024/04/17 | 2.3 | | % | 25 |
| | | | Chloroform | 2024/04/17 | NC | | % | 25 |
| | | | Carbon Tetrachloride | 2024/04/17 | 1.9 | | % | 25 |
| | | | 1,1-Dichloroethane | 2024/04/17 | NC | | % | 25 |
| | | | 1,2-Dichloroethane | 2024/04/17 | 0 | | % | 25 |
| | | | Ethylene Dibromide | 2024/04/17 | NC | | % | 25 |
| | | | 1,1,1-Trichloroethane | 2024/04/17 | NC | | % | 25 |
| | | | 1,1,2-Trichloroethane | 2024/04/17 | NC | | % | 25 |
| | | | 1,1,2,2-Tetrachloroethane | 2024/04/17 | NC | | % | 25 |
| | | | cis-1,3-Dichloropropene | 2024/04/17 | NC | | % | 25 |
| | | | trans-1,3-Dichloropropene | 2024/04/17 | NC | | % | 25 |
| | | | 1,2-Dichloropropane | 2024/04/17 | NC | | % | 25 |
| | | | Bromomethane | 2024/04/17 | NC | | % | 25 |
| | | | Bromoform | 2024/04/17 | NC | | % | 25 |
| | | | Trichloroethylene | 2024/04/17 | NC | | % | 25 |
| | | | Tetrachloroethylene | 2024/04/17 | NC | | % | 25 |
| | | | Benzene | 2024/04/17 | 0.85 | | % | 25 |
| | | | Toluene | 2024/04/17 | NC | | % | 25 |
| | | | Ethylbenzene | 2024/04/17 | NC | | % | 25 |
| | | | p+m-Xylene | 2024/04/17 | NC | | % | 25 |
| | | | o-Xylene | 2024/04/17 | NC | | % | 25 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Styrene | 2024/04/17 | NC | | % | 25 |
| | | | Chlorobenzene | 2024/04/17 | NC | | % | 25 |
| | | | 1,4-Dichlorobenzene | 2024/04/17 | NC | | % | 25 |
| | | | 1,2-Dichlorobenzene | 2024/04/17 | NC | | % | 25 |
| | | | 1,2,4-Trichlorobenzene | 2024/04/17 | NC | | % | 25 |
| | | | Hexachlorobutadiene | 2024/04/17 | NC | | % | 25 |
| | | | Hexane | 2024/04/17 | NC | | % | 25 |
| | | | Naphthalene | 2024/04/17 | NC | | % | 25 |
| | | | Total Xylenes | 2024/04/17 | NC | | % | 25 |
| | | | 1,1,1,2-Tetrachloroethane | 2024/04/17 | NC | | % | 25 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



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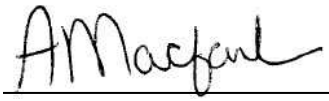
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4A2195
Report Date: 2024/04/19

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: CB

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anke Macfarlane, Laboratory Manager, VOC

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: EICAC026300307
Your Project #: OMEMA2303.2023D.100
Your C.O.C. #: NA

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/05/24**
Report #: R8161125
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4E0184**
**Received: 2024/05/10, 08:37**

Sample Matrix: Air
# Samples Received: 1

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | 1 | N/A | 2024/05/13 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air by GC/MS/SIM (1) | 1 | N/A | 2024/05/13 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air (TO-15) (2) | 1 | N/A | 2024/05/13 | BRL SOP-00304 | EPA TO-15 m |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Your P.O. #: EICAC026300307
Your Project #: OMEMA2303.2023D.100
Your C.O.C. #: NA

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/05/24**
Report #: R8161125
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

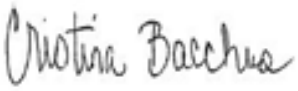
**BUREAU VERITAS JOB #: C4E0184**

**Received: 2024/05/10, 08:37**

(2) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key



Cristina (Maria) Bacchus
Project Manager
24 May 2024 16:36:35

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

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This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| **Bureau Veritas ID** | | ZDB487 | ZDB487 | | |
|---|---|---|---|---|---|
| **Sampling Date** | | 2024/05/05 | 2024/05/05 | | |
| **COC Number** | | NA | NA | | |
| | **UNITS** | **MAY 5TH SUMMA BELL TOWERS** | **MAY 5TH SUMMA BELL TOWERS Lab-Dup** | **RDL** | **QC Batch** |
| **Volatile Organics** | | | | | |
| Pressure on Receipt | psig | 0 | N/A | N/A | 9389158 |
| 2-Propanone | ppbv | 2.66 | 2.67 | 0.10 | 9389156 |
| Dichlorodifluoromethane (FREON 12) | ppbv | 0.53 | 0.53 | 0.20 | 9389155 |
| 1,2-Dichlorotetrafluoroethane | ppbv | <0.17 | <0.17 | 0.17 | 9389155 |
| Chloromethane | ppbv | 0.52 | 0.53 | 0.30 | 9389155 |
| Vinyl Chloride | ppbv | <0.020 | <0.020 | 0.020 | 9389156 |
| Chloroethane | ppbv | <0.30 | <0.30 | 0.30 | 9389155 |
| 1,3-Butadiene | ppbv | <0.50 | <0.50 | 0.50 | 9389155 |
| Trichlorofluoromethane (FREON 11) | ppbv | 0.29 | 0.30 | 0.20 | 9389155 |
| Ethanol (ethyl alcohol) | ppbv | <1.0 | <1.0 | 1.0 | 9389155 |
| Trichlorotrifluoroethane | ppbv | <0.15 | <0.15 | 0.15 | 9389155 |
| 2-propanol | ppbv | <1.0 | <1.0 | 1.0 | 9389155 |
| Methyl Ethyl Ketone (2-Butanone) | ppbv | 0.13 | 0.13 | 0.10 | 9389156 |
| Methyl Isobutyl Ketone | ppbv | <0.10 | <0.10 | 0.10 | 9389156 |
| Methyl Butyl Ketone (2-Hexanone) | ppbv | <1.0 | <1.0 | 1.0 | 9389155 |
| Methyl t-butyl ether (MTBE) | ppbv | <0.10 | <0.10 | 0.10 | 9389156 |
| Ethyl Acetate | ppbv | <1.0 | <1.0 | 1.0 | 9389155 |
| 1,1-Dichloroethylene | ppbv | <0.050 | <0.050 | 0.050 | 9389156 |
| cis-1,2-Dichloroethylene | ppbv | 0.181 | 0.179 | 0.050 | 9389156 |
| trans-1,2-Dichloroethylene | ppbv | <0.10 | <0.10 | 0.10 | 9389156 |
| Methylene Chloride(Dichloromethane) | ppbv | 0.141 | 0.147 | 0.050 | 9389156 |
| Chloroform | ppbv | 0.085 | 0.084 | 0.040 | 9389156 |
| Carbon Tetrachloride | ppbv | 0.116 | 0.117 | 0.050 | 9389156 |
| 1,1-Dichloroethane | ppbv | <0.050 | <0.050 | 0.050 | 9389156 |
| 1,2-Dichloroethane | ppbv | 0.024 | 0.024 | 0.010 | 9389156 |
| Ethylene Dibromide | ppbv | <0.010 | <0.010 | 0.010 | 9389156 |
| 1,1,1-Trichloroethane | ppbv | <0.050 | <0.050 | 0.050 | 9389156 |
| 1,1,2-Trichloroethane | ppbv | <0.012 | <0.012 | 0.012 | 9389156 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable



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## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| **Bureau Veritas ID** | | ZDB487 | ZDB487 | | |
|---|---|---|---|---|---|
| **Sampling Date** | | 2024/05/05 | 2024/05/05 | | |
| **COC Number** | | NA | NA | | |
| | **UNITS** | **MAY 5TH SUMMA BELL TOWERS** | **MAY 5TH SUMMA BELL TOWERS Lab-Dup** | **RDL** | **QC Batch** |
| 1,1,2,2-Tetrachloroethane | ppbv | <0.0027 | <0.0027 | 0.0027 | 9389156 |
| cis-1,3-Dichloropropene | ppbv | <0.050 | <0.050 | 0.050 | 9389156 |
| trans-1,3-Dichloropropene | ppbv | <0.050 | <0.050 | 0.050 | 9389156 |
| 1,2-Dichloropropane | ppbv | <0.050 | <0.050 | 0.050 | 9389156 |
| Bromomethane | ppbv | <0.050 | <0.050 | 0.050 | 9389156 |
| Bromoform | ppbv | <0.10 | <0.10 | 0.10 | 9389156 |
| Bromodichloromethane | ppbv | <0.20 | <0.20 | 0.20 | 9389155 |
| Dibromochloromethane | ppbv | <0.20 | <0.20 | 0.20 | 9389155 |
| Trichloroethylene | ppbv | 0.054 | 0.054 | 0.050 | 9389156 |
| Tetrachloroethylene | ppbv | 0.532 | 0.529 | 0.050 | 9389156 |
| Benzene | ppbv | 0.066 | 0.064 | 0.050 | 9389156 |
| Toluene | ppbv | 0.227 | 0.227 | 0.050 | 9389156 |
| Ethylbenzene | ppbv | <0.050 | <0.050 | 0.050 | 9389156 |
| p+m-Xylene | ppbv | <0.10 | <0.10 | 0.10 | 9389156 |
| o-Xylene | ppbv | <0.050 | <0.050 | 0.050 | 9389156 |
| Styrene | ppbv | <0.050 | <0.050 | 0.050 | 9389156 |
| 4-ethyltoluene | ppbv | <0.50 | <0.50 | 0.50 | 9389155 |
| 1,3,5-Trimethylbenzene | ppbv | <0.50 | <0.50 | 0.50 | 9389155 |
| 1,2,4-Trimethylbenzene | ppbv | <0.50 | <0.50 | 0.50 | 9389155 |
| Chlorobenzene | ppbv | <0.050 | <0.050 | 0.050 | 9389156 |
| Benzyl chloride | ppbv | <0.50 | <0.50 | 0.50 | 9389155 |
| 1,3-Dichlorobenzene | ppbv | <0.40 | <0.40 | 0.40 | 9389155 |
| 1,4-Dichlorobenzene | ppbv | <0.050 | <0.050 | 0.050 | 9389156 |
| 1,2-Dichlorobenzene | ppbv | <0.050 | <0.050 | 0.050 | 9389156 |
| 1,2,4-Trichlorobenzene | ppbv | <0.10 | <0.10 | 0.10 | 9389156 |
| Hexachlorobutadiene | ppbv | <0.0047 | <0.0047 | 0.0047 | 9389156 |
| Hexane | ppbv | <0.10 | <0.10 | 0.10 | 9389156 |
| Heptane | ppbv | <0.30 | <0.30 | 0.30 | 9389155 |
| Cyclohexane | ppbv | <0.20 | <0.20 | 0.20 | 9389155 |
| Tetrahydrofuran | ppbv | <0.40 | <0.40 | 0.40 | 9389155 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
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## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| **Bureau Veritas ID** | | ZDB487 | ZDB487 | | |
|---|---|---|---|---|---|
| **Sampling Date** | | 2024/05/05 | 2024/05/05 | | |
| **COC Number** | | NA | NA | | |
| | **UNITS** | **MAY 5TH SUMMA BELL TOWERS** | **MAY 5TH SUMMA BELL TOWERS Lab-Dup** | **RDL** | **QC Batch** |
| 1,4-Dioxane | ppbv | <1.0 | <1.0 | 1.0 | 9389155 |
| Naphthalene | ppbv | <0.10 | <0.10 | 0.10 | 9389156 |
| Total Xylenes | ppbv | <0.15 | <0.15 | 0.15 | 9389156 |
| 1,1,1,2-Tetrachloroethane | ppbv | <0.021 | <0.021 | 0.021 | 9389156 |
| Vinyl Bromide | ppbv | <0.20 | <0.20 | 0.20 | 9389155 |
| Propene | ppbv | <0.50 | <0.50 | 0.50 | 9389155 |
| 2,2,4-Trimethylpentane | ppbv | <0.20 | <0.20 | 0.20 | 9389155 |
| Carbon Disulfide | ppbv | <0.50 | <0.50 | 0.50 | 9389155 |
| Vinyl Acetate | ppbv | <0.20 | <0.20 | 0.20 | 9389155 |
| **Surrogate Recovery (%)** | | | | | |
| Bromochloromethane | % | 103 | 102 | N/A | 9389156 |
| D5-Chlorobenzene | % | 91 | 90 | N/A | 9389156 |
| Difluorobenzene | % | 88 | 86 | N/A | 9389156 |
| Bromochloromethane | % | 103 | 102 | N/A | 9389155 |
| D5-Chlorobenzene | % | 91 | 90 | N/A | 9389155 |
| Difluorobenzene | % | 88 | 86 | N/A | 9389155 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable



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Bureau Veritas Job #: C4E0184
Report Date: 2024/05/24

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Your P.O. #: EICAC026300307
Sampler Initials: JMF

## TEST SUMMARY

**Bureau Veritas ID:** ZDB487
**Sample ID:** MAY 5TH SUMMA BELL TOWERS
**Matrix:** Air

**Collected:** 2024/05/05
**Shipped:**
**Received:** 2024/05/10

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | PRES | 9389158 | N/A | 2024/05/13 | Gagandeep Kaur |
| Volatile Organics in Air by GC/MS/SIM | GC/MS | 9389156 | N/A | 2024/05/13 | Gagandeep Kaur |
| Volatile Organics in Air (TO-15) | GC/MS | 9389155 | N/A | 2024/05/13 | Gagandeep Kaur |

**Bureau Veritas ID:** ZDB487 Dup
**Sample ID:** MAY 5TH SUMMA BELL TOWERS
**Matrix:** Air

**Collected:** 2024/05/05
**Shipped:**
**Received:** 2024/05/10

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Volatile Organics in Air by GC/MS/SIM | GC/MS | 9389156 | N/A | 2024/05/13 | Gagandeep Kaur |
| Volatile Organics in Air (TO-15) | GC/MS | 9389155 | N/A | 2024/05/13 | Gagandeep Kaur |



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## GENERAL COMMENTS

**Results relate only to the items tested.**



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## QUALITY ASSURANCE REPORT



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 9389155 | Bromochloromethane | 2024/05/13 | 103 | 60 - 140 | 101 | % | | |
| 9389155 | D5-Chlorobenzene | 2024/05/13 | 109 | 60 - 140 | 71 | % | | |
| 9389155 | Difluorobenzene | 2024/05/13 | 107 | 60 - 140 | 78 | % | | |
| 9389156 | Bromochloromethane | 2024/05/13 | 103 | 60 - 140 | 101 | % | | |
| 9389156 | D5-Chlorobenzene | 2024/05/13 | 109 | 60 - 140 | 71 | % | | |
| 9389156 | Difluorobenzene | 2024/05/13 | 107 | 60 - 140 | 78 | % | | |
| 9389155 | 1,2,4-Trimethylbenzene | 2024/05/13 | 117 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 9389155 | 1,2-Dichlorotetrafluoroethane | 2024/05/13 | 98 | 70 - 130 | <0.17 | ppbv | NC (1) | 25 |
| 9389155 | 1,3,5-Trimethylbenzene | 2024/05/13 | 114 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 9389155 | 1,3-Butadiene | 2024/05/13 | 106 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 9389155 | 1,3-Dichlorobenzene | 2024/05/13 | 103 | 70 - 130 | <0.40 | ppbv | NC (1) | 25 |
| 9389155 | 1,4-Dioxane | 2024/05/13 | 112 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 9389155 | 2,2,4-Trimethylpentane | 2024/05/13 | 103 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 9389155 | 2-propanol | 2024/05/13 | 102 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 9389155 | 4-ethyltoluene | 2024/05/13 | 115 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 9389155 | Benzyl chloride | 2024/05/13 | 112 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 9389155 | Bromodichloromethane | 2024/05/13 | 91 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 9389155 | Carbon Disulfide | 2024/05/13 | 101 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 9389155 | Chloroethane | 2024/05/13 | 100 | 70 - 130 | <0.30 | ppbv | NC (1) | 25 |
| 9389155 | Chloromethane | 2024/05/13 | 98 | 70 - 130 | <0.30 | ppbv | 2.1 (1) | 25 |
| 9389155 | Cyclohexane | 2024/05/13 | 109 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 9389155 | Dibromochloromethane | 2024/05/13 | 98 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 9389155 | Dichlorodifluoromethane (FREON 12) | 2024/05/13 | 94 | 70 - 130 | <0.20 | ppbv | 0.11 (1) | 25 |
| 9389155 | Ethanol (ethyl alcohol) | 2024/05/13 | 104 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 9389155 | Ethyl Acetate | 2024/05/13 | 105 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 9389155 | Heptane | 2024/05/13 | 109 | 70 - 130 | <0.30 | ppbv | NC (1) | 25 |
| 9389155 | Methyl Butyl Ketone (2-Hexanone) | 2024/05/13 | 97 | 70 - 130 | <1.0 | ppbv | NC (1) | 25 |
| 9389155 | Propene | 2024/05/13 | 112 | 70 - 130 | <0.50 | ppbv | NC (1) | 25 |
| 9389155 | Tetrahydrofuran | 2024/05/13 | 112 | 70 - 130 | <0.40 | ppbv | NC (1) | 25 |
| 9389155 | Trichlorofluoromethane (FREON 11) | 2024/05/13 | 97 | 70 - 130 | <0.20 | ppbv | 2.3 (1) | 25 |



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## QUALITY ASSURANCE REPORT(CONT'D)



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 9389155 | Trichlorotrifluoroethane | 2024/05/13 | 96 | 70 - 130 | <0.15 | ppbv | NC (1) | 25 |
| 9389155 | Vinyl Acetate | 2024/05/13 | 117 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 9389155 | Vinyl Bromide | 2024/05/13 | 93 | 70 - 130 | <0.20 | ppbv | NC (1) | 25 |
| 9389156 | 1,1,1,2-Tetrachloroethane | 2024/05/13 | 95 | 70 - 130 | <0.021 | ppbv | NC (1) | 25 |
| 9389156 | 1,1,1-Trichloroethane | 2024/05/13 | 99 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9389156 | 1,1,2,2-Tetrachloroethane | 2024/05/13 | 90 | 70 - 130 | <0.0027 | ppbv | NC (1) | 25 |
| 9389156 | 1,1,2-Trichloroethane | 2024/05/13 | 97 | 70 - 130 | <0.012 | ppbv | NC (1) | 25 |
| 9389156 | 1,1-Dichloroethane | 2024/05/13 | 97 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9389156 | 1,1-Dichloroethylene | 2024/05/13 | 100 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9389156 | 1,2,4-Trichlorobenzene | 2024/05/13 | 106 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 9389156 | 1,2-Dichlorobenzene | 2024/05/13 | 103 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9389156 | 1,2-Dichloroethane | 2024/05/13 | 105 | 70 - 130 | <0.010 | ppbv | 0.14 (1) | 25 |
| 9389156 | 1,2-Dichloropropane | 2024/05/13 | 96 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9389156 | 1,4-Dichlorobenzene | 2024/05/13 | 106 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9389156 | 2-Propanone | 2024/05/13 | 96 | 70 - 130 | <0.10 | ppbv | NC (1) | N/A |
| 9389156 | Benzene | 2024/05/13 | 105 | 70 - 130 | <0.050 | ppbv | 3.1 (1) | 25 |
| 9389156 | Bromoform | 2024/05/13 | 95 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 9389156 | Bromomethane | 2024/05/13 | 91 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9389156 | Carbon Tetrachloride | 2024/05/13 | 96 | 70 - 130 | <0.050 | ppbv | 1.2 (1) | 25 |
| 9389156 | Chlorobenzene | 2024/05/13 | 102 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9389156 | Chloroform | 2024/05/13 | 104 | 70 - 130 | <0.040 | ppbv | 1.1 (1) | 25 |
| 9389156 | cis-1,2-Dichloroethylene | 2024/05/13 | 105 | 70 - 130 | <0.050 | ppbv | 0.94 (1) | 25 |
| 9389156 | cis-1,3-Dichloropropene | 2024/05/13 | 105 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9389156 | Ethylbenzene | 2024/05/13 | 110 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9389156 | Ethylene Dibromide | 2024/05/13 | 100 | 70 - 130 | <0.010 | ppbv | NC (1) | 25 |
| 9389156 | Hexachlorobutadiene | 2024/05/13 | 96 | 70 - 130 | <0.0047 | ppbv | NC (1) | 25 |
| 9389156 | Hexane | 2024/05/13 | 108 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 9389156 | Methyl Ethyl Ketone (2-Butanone) | 2024/05/13 | 104 | 70 - 130 | <0.10 | ppbv | 2.7 (1) | 25 |
| 9389156 | Methyl Isobutyl Ketone | 2024/05/13 | 99 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 9389156 | Methyl t-butyl ether (MTBE) | 2024/05/13 | 103 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 9389156 | Methylene Chloride(Dichloromethane) | 2024/05/13 | 98 | 70 - 130 | <0.050 | ppbv | 3.8 (1) | 25 |
| 9389156 | Naphthalene | 2024/05/13 | 117 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 9389156 | o-Xylene | 2024/05/13 | 105 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9389156 | p+m-Xylene | 2024/05/13 | 114 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 9389156 | Styrene | 2024/05/13 | 113 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9389156 | Tetrachloroethylene | 2024/05/13 | 105 | 70 - 130 | <0.050 | ppbv | 0.56 (1) | 25 |
| 9389156 | Toluene | 2024/05/13 | 111 | 70 - 130 | <0.050 | ppbv | 0.18 (1) | 25 |
| 9389156 | Total Xylenes | 2024/05/13 | 111 | 70 - 130 | <0.15 | ppbv | NC (1) | 25 |
| 9389156 | trans-1,2-Dichloroethylene | 2024/05/13 | 105 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 9389156 | trans-1,3-Dichloropropene | 2024/05/13 | 111 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9389156 | Trichloroethylene | 2024/05/13 | 102 | 70 - 130 | <0.050 | ppbv | 0.72 (1) | 25 |
| 9389156 | Vinyl Chloride | 2024/05/13 | 100 | 70 - 130 | <0.020 | ppbv | NC (1) | 25 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Duplicate Parent ID [ZDB487-01]



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4E0184
Report Date: 2024/05/24

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Your P.O. #: EICAC026300307
Sampler Initials: JMF

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Melanie Mabini, Team Leader

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

10-May-24 08:37

Cristina (Maria) Bacchus

**C4E0184**

CAM FCD-01302 /3

BUREAU VERITAS

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

## Chain of Custody Form - Summa™ Canister



**INVOICE INFORMATION**

**Company Name:**

**Contact Name** Ryan Fletcher

**Address:**

**E-mail:** CAPayablesInvoice@wsp.com

**Ph:**

**Sampled by:** Jacob McFee

**REPORT INFORMATION**

**Company Name:** Kinross/WSP E&I Canada

**Project Manager:** Ryan Fletcher

**Address:** 19 Young Street,
Red Lake ON, CA, P0V 2M0

**E-mail:** See comments below for list

**Ph:** 1 647-283-4638

**ANALYSIS REQUESTED**

| Field Sample ID | Canister Serial # | Flow Regulator Serial # | Collection Date | START VACUUM (inches of Hg) | END VACUUM (inches of Hg) | SOIL VAPOUR | AMBIENT/INDOOR AIR | AMBIENT/COMMERCIAL/INDUSTRIAL | SUB-SLAB GAS | FULL LIST OF VOCs (reference TO15A) | BTEX/Aromatic/Aliphatic Hydrocarbon Fractions | BTEX/F1 (C6-C10) and F2 (C10-C16) | Selected VOC's - please specify | Other | | | | CANISTERS NOT USED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| May 5th Summa Bell Towers | SX-0156 | FX-0048 | 5-May | -27.5 | 0 | | X | | | X | | | | | | | | |

**TAT Requirement**

- STD 10 Business day ☑
- Rush 5 Business day * ☐
- Rush 2 Business day * ☐
- Rush Other * ☐

* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2303.2023D.100
Name: Kinross Project
PO #: EICAC026300307
Bureau Veritas Quote #:
Bureau Veritas Contact: Cristina Bacchus
Task Order/Line Item

**REPORTING REQUIREMENTS**

EDD ☑
Regulations ON 153 ☑
ON 419 ☑
BC CSR ☑
Other

**Notes**

*1) please indicate on chain of custody if your samples are soil vapour or ambient air*
*2) please list all canisters on the chain of custody even if unused*

**PROJECT SPECIFIC COMMENTS**

Please send results to the following:
jacob.mcfee@kinross.com; ashley.moncrief@kinross.com;
ryan.fletcher@wsp.com; airgroup@wsp.com;
emily.meek@kinross.com; curtis.bloemberg@kinross.com;
aaron.peloquin@kinross.com

**PLEASE RETURN ALL UNUSED EQUIPMENT**

Client Signature:

Date/Time: May 6 9:45

Received by: Cindy Vong

Date/Time: 2024/05/10 08:37

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions*

Your P.O. #: EICAC026300307
Your Project #: OMEMA2303.2023D.100
Your C.O.C. #: NA

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/05/24**
Report #: R8161125
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4E0184**
**Received: 2024/05/10, 08:37**

Sample Matrix: Air
# Samples Received: 1

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | 1 | N/A | 2024/05/13 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air by GC/MS/SIM (1) | 1 | N/A | 2024/05/13 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air (TO-15) (2) | 1 | N/A | 2024/05/13 | BRL SOP-00304 | EPA TO-15 m |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

(2) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target

Your P.O. #: EICAC026300307
Your Project #: OMEMA2303.2023D.100
Your C.O.C. #: NA

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/05/24**
Report #: R8161125
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

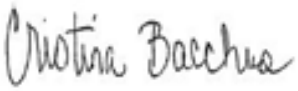
**BUREAU VERITAS JOB #: C4E0184**

**Received: 2024/05/10, 08:37**

analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key



Cristina (Maria) Bacchus
Project Manager
24 May 2024 16:36:50

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4E0184
Report Date: 2024/05/24

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Your P.O. #: EICAC026300307
Sampler Initials: JMF

## RESULTS OF ANALYSES OF AIR

| Bureau Veritas ID | | ZDB487 | |
|---|---|---|---|
| Sampling Date | | 2024/05/05 | |
| COC Number | | NA | |
| | UNITS | MAY 5TH SUMMA BELL TOWERS | QC Batch |
| **Volatile Organics** | | | |
| Pressure on Receipt | psig | 0 | 9389158 |
| QC Batch = Quality Control Batch | | | |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## VOLATILE ORGANICS BY GC/MS (AIR)

| Bureau Veritas ID | | ZDB487 | | | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2024/05/05 | | | | |
| COC Number | | NA | | | | |
| | UNITS | MAY 5TH SUMMA BELL TOWERS | RDL | ug/m3 | DL (ug/m3) | QC Batch |
| **Volatile Organics** | | | | | | |
| 2-Propanone | ppbv | 2.66 | 0.10 | 6.31 | 0.238 | 9389156 |
| Dichlorodifluoromethane (FREON 12) | ppbv | 0.53 | 0.20 | 2.60 | 0.989 | 9389155 |
| 1,2-Dichlorotetrafluoroethane | ppbv | <0.17 | 0.17 | <1.19 | 1.19 | 9389155 |
| Chloromethane | ppbv | 0.52 | 0.30 | 1.07 | 0.620 | 9389155 |
| Vinyl Chloride | ppbv | <0.020 | 0.020 | <0.0511 | 0.0511 | 9389156 |
| Chloroethane | ppbv | <0.30 | 0.30 | <0.792 | 0.792 | 9389155 |
| 1,3-Butadiene | ppbv | <0.50 | 0.50 | <1.11 | 1.11 | 9389155 |
| Trichlorofluoromethane (FREON 11) | ppbv | 0.29 | 0.20 | 1.63 | 1.12 | 9389155 |
| Ethanol (ethyl alcohol) | ppbv | <1.0 | 1.0 | <1.88 | 1.88 | 9389155 |
| Trichlorotrifluoroethane | ppbv | <0.15 | 0.15 | <1.15 | 1.15 | 9389155 |
| 2-propanol | ppbv | <1.0 | 1.0 | <2.46 | 2.46 | 9389155 |
| Methyl Ethyl Ketone (2-Butanone) | ppbv | 0.13 | 0.10 | 0.388 | 0.295 | 9389156 |
| Methyl Isobutyl Ketone | ppbv | <0.10 | 0.10 | <0.410 | 0.410 | 9389156 |
| Methyl Butyl Ketone (2-Hexanone) | ppbv | <1.0 | 1.0 | <4.10 | 4.10 | 9389155 |
| Methyl t-butyl ether (MTBE) | ppbv | <0.10 | 0.10 | <0.361 | 0.361 | 9389156 |
| Ethyl Acetate | ppbv | <1.0 | 1.0 | <3.60 | 3.60 | 9389155 |
| 1,1-Dichloroethylene | ppbv | <0.050 | 0.050 | <0.198 | 0.198 | 9389156 |
| cis-1,2-Dichloroethylene | ppbv | 0.181 | 0.050 | 0.718 | 0.198 | 9389156 |
| trans-1,2-Dichloroethylene | ppbv | <0.10 | 0.10 | <0.396 | 0.396 | 9389156 |
| Methylene Chloride(Dichloromethane) | ppbv | 0.141 | 0.050 | 0.491 | 0.174 | 9389156 |
| Chloroform | ppbv | 0.085 | 0.040 | 0.413 | 0.195 | 9389156 |
| Carbon Tetrachloride | ppbv | 0.116 | 0.050 | 0.729 | 0.315 | 9389156 |
| 1,1-Dichloroethane | ppbv | <0.050 | 0.050 | <0.202 | 0.202 | 9389156 |
| 1,2-Dichloroethane | ppbv | 0.024 | 0.010 | 0.0978 | 0.0405 | 9389156 |
| Ethylene Dibromide | ppbv | <0.010 | 0.010 | <0.0768 | 0.0768 | 9389156 |
| 1,1,1-Trichloroethane | ppbv | <0.050 | 0.050 | <0.273 | 0.273 | 9389156 |
| 1,1,2-Trichloroethane | ppbv | <0.012 | 0.012 | <0.0655 | 0.0655 | 9389156 |
| 1,1,2,2-Tetrachloroethane | ppbv | <0.0027 | 0.0027 | <0.0185 | 0.0185 | 9389156 |
| cis-1,3-Dichloropropene | ppbv | <0.050 | 0.050 | <0.227 | 0.227 | 9389156 |
| trans-1,3-Dichloropropene | ppbv | <0.050 | 0.050 | <0.227 | 0.227 | 9389156 |
| 1,2-Dichloropropane | ppbv | <0.050 | 0.050 | <0.231 | 0.231 | 9389156 |
| Bromomethane | ppbv | <0.050 | 0.050 | <0.194 | 0.194 | 9389156 |
| Bromoform | ppbv | <0.10 | 0.10 | <1.03 | 1.03 | 9389156 |
| Bromodichloromethane | ppbv | <0.20 | 0.20 | <1.34 | 1.34 | 9389155 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## VOLATILE ORGANICS BY GC/MS (AIR)

| Bureau Veritas ID | | ZDB487 | | | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2024/05/05 | | | | |
| COC Number | | NA | | | | |
| | UNITS | MAY 5TH SUMMA BELL TOWERS | RDL | ug/m3 | DL (ug/m3) | QC Batch |
| Dibromochloromethane | ppbv | <0.20 | 0.20 | <1.70 | 1.70 | 9389155 |
| Trichloroethylene | ppbv | 0.054 | 0.050 | 0.291 | 0.269 | 9389156 |
| Tetrachloroethylene | ppbv | 0.532 | 0.050 | 3.61 | 0.339 | 9389156 |
| Benzene | ppbv | 0.066 | 0.050 | 0.212 | 0.160 | 9389156 |
| Toluene | ppbv | 0.227 | 0.050 | 0.855 | 0.188 | 9389156 |
| Ethylbenzene | ppbv | <0.050 | 0.050 | <0.217 | 0.217 | 9389156 |
| p+m-Xylene | ppbv | <0.10 | 0.10 | <0.434 | 0.434 | 9389156 |
| o-Xylene | ppbv | <0.050 | 0.050 | <0.217 | 0.217 | 9389156 |
| Styrene | ppbv | <0.050 | 0.050 | <0.213 | 0.213 | 9389156 |
| 4-ethyltoluene | ppbv | <0.50 | 0.50 | <2.46 | 2.46 | 9389155 |
| 1,3,5-Trimethylbenzene | ppbv | <0.50 | 0.50 | <2.45 | 2.45 | 9389155 |
| 1,2,4-Trimethylbenzene | ppbv | <0.50 | 0.50 | <2.45 | 2.45 | 9389155 |
| Chlorobenzene | ppbv | <0.050 | 0.050 | <0.230 | 0.230 | 9389156 |
| Benzyl chloride | ppbv | <0.50 | 0.50 | <2.59 | 2.59 | 9389155 |
| 1,3-Dichlorobenzene | ppbv | <0.40 | 0.40 | <2.40 | 2.40 | 9389155 |
| 1,4-Dichlorobenzene | ppbv | <0.050 | 0.050 | <0.301 | 0.301 | 9389156 |
| 1,2-Dichlorobenzene | ppbv | <0.050 | 0.050 | <0.301 | 0.301 | 9389156 |
| 1,2,4-Trichlorobenzene | ppbv | <0.10 | 0.10 | <0.742 | 0.742 | 9389156 |
| Hexachlorobutadiene | ppbv | <0.0047 | 0.0047 | <0.0501 | 0.0501 | 9389156 |
| Hexane | ppbv | <0.10 | 0.10 | <0.352 | 0.352 | 9389156 |
| Heptane | ppbv | <0.30 | 0.30 | <1.23 | 1.23 | 9389155 |
| Cyclohexane | ppbv | <0.20 | 0.20 | <0.688 | 0.688 | 9389155 |
| Tetrahydrofuran | ppbv | <0.40 | 0.40 | <1.18 | 1.18 | 9389155 |
| 1,4-Dioxane | ppbv | <1.0 | 1.0 | <3.60 | 3.60 | 9389155 |
| Naphthalene | ppbv | <0.10 | 0.10 | <0.524 | 0.524 | 9389156 |
| Total Xylenes | ppbv | <0.15 | 0.15 | <0.651 | 0.651 | 9389156 |
| 1,1,1,2-Tetrachloroethane | ppbv | <0.021 | 0.021 | <0.144 | 0.144 | 9389156 |
| Vinyl Bromide | ppbv | <0.20 | 0.20 | <0.875 | 0.875 | 9389155 |
| Propene | ppbv | <0.50 | 0.50 | <0.861 | 0.861 | 9389155 |
| 2,2,4-Trimethylpentane | ppbv | <0.20 | 0.20 | <0.934 | 0.934 | 9389155 |
| Carbon Disulfide | ppbv | <0.50 | 0.50 | <1.56 | 1.56 | 9389155 |
| Vinyl Acetate | ppbv | <0.20 | 0.20 | <0.704 | 0.704 | 9389155 |
| **Surrogate Recovery (%)** | | | | | | |
| Bromochloromethane | % | 103 | | N/A | N/A | 9389156 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## VOLATILE ORGANICS BY GC/MS (AIR)

| Bureau Veritas ID | | ZDB487 | | | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2024/05/05 | | | | |
| COC Number | | NA | | | | |
| | UNITS | MAY 5TH SUMMA BELL TOWERS | RDL | ug/m3 | DL (ug/m3) | QC Batch |
| D5-Chlorobenzene | % | 91 | | N/A | N/A | 9389156 |
| Difluorobenzene | % | 88 | | N/A | N/A | 9389156 |
| Bromochloromethane | % | 103 | | N/A | N/A | 9389155 |
| D5-Chlorobenzene | % | 91 | | N/A | N/A | 9389155 |
| Difluorobenzene | % | 88 | | N/A | N/A | 9389155 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9389155 | XGA | Spiked Blank | Bromochloromethane | 2024/05/13 | | 103 | % | 60 - 140 |
| | | | D5-Chlorobenzene | 2024/05/13 | | 109 | % | 60 - 140 |
| | | | Difluorobenzene | 2024/05/13 | | 107 | % | 60 - 140 |
| | | | Dichlorodifluoromethane (FREON 12) | 2024/05/13 | | 94 | % | 70 - 130 |
| | | | 1,2-Dichlorotetrafluoroethane | 2024/05/13 | | 98 | % | 70 - 130 |
| | | | Chloromethane | 2024/05/13 | | 98 | % | 70 - 130 |
| | | | Chloroethane | 2024/05/13 | | 100 | % | 70 - 130 |
| | | | 1,3-Butadiene | 2024/05/13 | | 106 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2024/05/13 | | 97 | % | 70 - 130 |
| | | | Ethanol (ethyl alcohol) | 2024/05/13 | | 104 | % | 70 - 130 |
| | | | Trichlorotrifluoroethane | 2024/05/13 | | 96 | % | 70 - 130 |
| | | | 2-propanol | 2024/05/13 | | 102 | % | 70 - 130 |
| | | | Methyl Butyl Ketone (2-Hexanone) | 2024/05/13 | | 97 | % | 70 - 130 |
| | | | Ethyl Acetate | 2024/05/13 | | 105 | % | 70 - 130 |
| | | | Bromodichloromethane | 2024/05/13 | | 91 | % | 70 - 130 |
| | | | Dibromochloromethane | 2024/05/13 | | 98 | % | 70 - 130 |
| | | | 4-ethyltoluene | 2024/05/13 | | 115 | % | 70 - 130 |
| | | | 1,3,5-Trimethylbenzene | 2024/05/13 | | 114 | % | 70 - 130 |
| | | | 1,2,4-Trimethylbenzene | 2024/05/13 | | 117 | % | 70 - 130 |
| | | | Benzyl chloride | 2024/05/13 | | 112 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2024/05/13 | | 103 | % | 70 - 130 |
| | | | Heptane | 2024/05/13 | | 109 | % | 70 - 130 |
| | | | Cyclohexane | 2024/05/13 | | 109 | % | 70 - 130 |
| | | | Tetrahydrofuran | 2024/05/13 | | 112 | % | 70 - 130 |
| | | | 1,4-Dioxane | 2024/05/13 | | 112 | % | 70 - 130 |
| | | | Vinyl Bromide | 2024/05/13 | | 93 | % | 70 - 130 |
| | | | Propene | 2024/05/13 | | 112 | % | 70 - 130 |
| | | | 2,2,4-Trimethylpentane | 2024/05/13 | | 103 | % | 70 - 130 |
| | | | Carbon Disulfide | 2024/05/13 | | 101 | % | 70 - 130 |
| | | | Vinyl Acetate | 2024/05/13 | | 117 | % | 70 - 130 |
| 9389155 | XGA | Method Blank | Bromochloromethane | 2024/05/13 | | 101 | % | 60 - 140 |
| | | | D5-Chlorobenzene | 2024/05/13 | | 71 | % | 60 - 140 |
| | | | Difluorobenzene | 2024/05/13 | | 78 | % | 60 - 140 |
| | | | Dichlorodifluoromethane (FREON 12) | 2024/05/13 | <0.20 | | ppbv | |
| | | | 1,2-Dichlorotetrafluoroethane | 2024/05/13 | <0.17 | | ppbv | |
| | | | Chloromethane | 2024/05/13 | <0.30 | | ppbv | |
| | | | Chloroethane | 2024/05/13 | <0.30 | | ppbv | |
| | | | 1,3-Butadiene | 2024/05/13 | <0.50 | | ppbv | |
| | | | Trichlorofluoromethane (FREON 11) | 2024/05/13 | <0.20 | | ppbv | |
| | | | Ethanol (ethyl alcohol) | 2024/05/13 | <1.0 | | ppbv | |
| | | | Trichlorotrifluoroethane | 2024/05/13 | <0.15 | | ppbv | |
| | | | 2-propanol | 2024/05/13 | <1.0 | | ppbv | |
| | | | Methyl Butyl Ketone (2-Hexanone) | 2024/05/13 | <1.0 | | ppbv | |
| | | | Ethyl Acetate | 2024/05/13 | <1.0 | | ppbv | |
| | | | Bromodichloromethane | 2024/05/13 | <0.20 | | ppbv | |
| | | | Dibromochloromethane | 2024/05/13 | <0.20 | | ppbv | |
| | | | 4-ethyltoluene | 2024/05/13 | <0.50 | | ppbv | |
| | | | 1,3,5-Trimethylbenzene | 2024/05/13 | <0.50 | | ppbv | |
| | | | 1,2,4-Trimethylbenzene | 2024/05/13 | <0.50 | | ppbv | |
| | | | Benzyl chloride | 2024/05/13 | <0.50 | | ppbv | |
| | | | 1,3-Dichlorobenzene | 2024/05/13 | <0.40 | | ppbv | |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Heptane | 2024/05/13 | <0.30 | | ppbv | |
| | | | Cyclohexane | 2024/05/13 | <0.20 | | ppbv | |
| | | | Tetrahydrofuran | 2024/05/13 | <0.40 | | ppbv | |
| | | | 1,4-Dioxane | 2024/05/13 | <1.0 | | ppbv | |
| | | | Vinyl Bromide | 2024/05/13 | <0.20 | | ppbv | |
| | | | Propene | 2024/05/13 | <0.50 | | ppbv | |
| | | | 2,2,4-Trimethylpentane | 2024/05/13 | <0.20 | | ppbv | |
| | | | Carbon Disulfide | 2024/05/13 | <0.50 | | ppbv | |
| | | | Vinyl Acetate | 2024/05/13 | <0.20 | | ppbv | |
| 9389155 | XGA | RPD [ZDB487-01] | Dichlorodifluoromethane (FREON 12) | 2024/05/13 | 0.11 | | % | 25 |
| | | | 1,2-Dichlorotetrafluoroethane | 2024/05/13 | NC | | % | 25 |
| | | | Chloromethane | 2024/05/13 | 2.1 | | % | 25 |
| | | | Chloroethane | 2024/05/13 | NC | | % | 25 |
| | | | 1,3-Butadiene | 2024/05/13 | NC | | % | 25 |
| | | | Trichlorofluoromethane (FREON 11) | 2024/05/13 | 2.3 | | % | 25 |
| | | | Ethanol (ethyl alcohol) | 2024/05/13 | NC | | % | 25 |
| | | | Trichlorotrifluoroethane | 2024/05/13 | NC | | % | 25 |
| | | | 2-propanol | 2024/05/13 | NC | | % | 25 |
| | | | Methyl Butyl Ketone (2-Hexanone) | 2024/05/13 | NC | | % | 25 |
| | | | Ethyl Acetate | 2024/05/13 | NC | | % | 25 |
| | | | Bromodichloromethane | 2024/05/13 | NC | | % | 25 |
| | | | Dibromochloromethane | 2024/05/13 | NC | | % | 25 |
| | | | 4-ethyltoluene | 2024/05/13 | NC | | % | 25 |
| | | | 1,3,5-Trimethylbenzene | 2024/05/13 | NC | | % | 25 |
| | | | 1,2,4-Trimethylbenzene | 2024/05/13 | NC | | % | 25 |
| | | | Benzyl chloride | 2024/05/13 | NC | | % | 25 |
| | | | 1,3-Dichlorobenzene | 2024/05/13 | NC | | % | 25 |
| | | | Heptane | 2024/05/13 | NC | | % | 25 |
| | | | Cyclohexane | 2024/05/13 | NC | | % | 25 |
| | | | Tetrahydrofuran | 2024/05/13 | NC | | % | 25 |
| | | | 1,4-Dioxane | 2024/05/13 | NC | | % | 25 |
| | | | Vinyl Bromide | 2024/05/13 | NC | | % | 25 |
| | | | Propene | 2024/05/13 | NC | | % | 25 |
| | | | 2,2,4-Trimethylpentane | 2024/05/13 | NC | | % | 25 |
| | | | Carbon Disulfide | 2024/05/13 | NC | | % | 25 |
| | | | Vinyl Acetate | 2024/05/13 | NC | | % | 25 |
| 9389156 | XGA | Spiked Blank | 2-Propanone | 2024/05/13 | | 96 | % | 70 - 130 |
| | | | Bromochloromethane | 2024/05/13 | | 103 | % | 60 - 140 |
| | | | D5-Chlorobenzene | 2024/05/13 | | 109 | % | 60 - 140 |
| | | | Difluorobenzene | 2024/05/13 | | 107 | % | 60 - 140 |
| | | | Vinyl Chloride | 2024/05/13 | | 100 | % | 70 - 130 |
| | | | Methyl Ethyl Ketone (2-Butanone) | 2024/05/13 | | 104 | % | 70 - 130 |
| | | | Methyl Isobutyl Ketone | 2024/05/13 | | 99 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2024/05/13 | | 103 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2024/05/13 | | 100 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2024/05/13 | | 105 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2024/05/13 | | 105 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2024/05/13 | | 98 | % | 70 - 130 |
| | | | Chloroform | 2024/05/13 | | 104 | % | 70 - 130 |
| | | | Carbon Tetrachloride | 2024/05/13 | | 96 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2024/05/13 | | 97 | % | 70 - 130 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | 1,2-Dichloroethane | 2024/05/13 | | 105 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2024/05/13 | | 100 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2024/05/13 | | 99 | % | 70 - 130 |
| | | | 1,1,2-Trichloroethane | 2024/05/13 | | 97 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2024/05/13 | | 90 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2024/05/13 | | 105 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2024/05/13 | | 111 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2024/05/13 | | 96 | % | 70 - 130 |
| | | | Bromomethane | 2024/05/13 | | 91 | % | 70 - 130 |
| | | | Bromoform | 2024/05/13 | | 95 | % | 70 - 130 |
| | | | Trichloroethylene | 2024/05/13 | | 102 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2024/05/13 | | 105 | % | 70 - 130 |
| | | | Benzene | 2024/05/13 | | 105 | % | 70 - 130 |
| | | | Toluene | 2024/05/13 | | 111 | % | 70 - 130 |
| | | | Ethylbenzene | 2024/05/13 | | 110 | % | 70 - 130 |
| | | | p+m-Xylene | 2024/05/13 | | 114 | % | 70 - 130 |
| | | | o-Xylene | 2024/05/13 | | 105 | % | 70 - 130 |
| | | | Styrene | 2024/05/13 | | 113 | % | 70 - 130 |
| | | | Chlorobenzene | 2024/05/13 | | 102 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2024/05/13 | | 106 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2024/05/13 | | 103 | % | 70 - 130 |
| | | | 1,2,4-Trichlorobenzene | 2024/05/13 | | 106 | % | 70 - 130 |
| | | | Hexachlorobutadiene | 2024/05/13 | | 96 | % | 70 - 130 |
| | | | Hexane | 2024/05/13 | | 108 | % | 70 - 130 |
| | | | Naphthalene | 2024/05/13 | | 117 | % | 70 - 130 |
| | | | Total Xylenes | 2024/05/13 | | 111 | % | 70 - 130 |
| | | | 1,1,1,2-Tetrachloroethane | 2024/05/13 | | 95 | % | 70 - 130 |
| 9389156 | XGA | Method Blank | 2-Propanone | 2024/05/13 | <0.10 | | ppbv | |
| | | | Bromochloromethane | 2024/05/13 | | 101 | % | 60 - 140 |
| | | | D5-Chlorobenzene | 2024/05/13 | | 71 | % | 60 - 140 |
| | | | Difluorobenzene | 2024/05/13 | | 78 | % | 60 - 140 |
| | | | Vinyl Chloride | 2024/05/13 | <0.020 | | ppbv | |
| | | | Methyl Ethyl Ketone (2-Butanone) | 2024/05/13 | <0.10 | | ppbv | |
| | | | Methyl Isobutyl Ketone | 2024/05/13 | <0.10 | | ppbv | |
| | | | Methyl t-butyl ether (MTBE) | 2024/05/13 | <0.10 | | ppbv | |
| | | | 1,1-Dichloroethylene | 2024/05/13 | <0.050 | | ppbv | |
| | | | cis-1,2-Dichloroethylene | 2024/05/13 | <0.050 | | ppbv | |
| | | | trans-1,2-Dichloroethylene | 2024/05/13 | <0.10 | | ppbv | |
| | | | Methylene Chloride(Dichloromethane) | 2024/05/13 | <0.050 | | ppbv | |
| | | | Chloroform | 2024/05/13 | <0.040 | | ppbv | |
| | | | Carbon Tetrachloride | 2024/05/13 | <0.050 | | ppbv | |
| | | | 1,1-Dichloroethane | 2024/05/13 | <0.050 | | ppbv | |
| | | | 1,2-Dichloroethane | 2024/05/13 | <0.010 | | ppbv | |
| | | | Ethylene Dibromide | 2024/05/13 | <0.010 | | ppbv | |
| | | | 1,1,1-Trichloroethane | 2024/05/13 | <0.050 | | ppbv | |
| | | | 1,1,2-Trichloroethane | 2024/05/13 | <0.012 | | ppbv | |
| | | | 1,1,2,2-Tetrachloroethane | 2024/05/13 | <0.0027 | | ppbv | |
| | | | cis-1,3-Dichloropropene | 2024/05/13 | <0.050 | | ppbv | |
| | | | trans-1,3-Dichloropropene | 2024/05/13 | <0.050 | | ppbv | |
| | | | 1,2-Dichloropropane | 2024/05/13 | <0.050 | | ppbv | |
| | | | Bromomethane | 2024/05/13 | <0.050 | | ppbv | |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Bromoform | 2024/05/13 | <0.10 | | ppbv | |
| | | | Trichloroethylene | 2024/05/13 | <0.050 | | ppbv | |
| | | | Tetrachloroethylene | 2024/05/13 | <0.050 | | ppbv | |
| | | | Benzene | 2024/05/13 | <0.050 | | ppbv | |
| | | | Toluene | 2024/05/13 | <0.050 | | ppbv | |
| | | | Ethylbenzene | 2024/05/13 | <0.050 | | ppbv | |
| | | | p+m-Xylene | 2024/05/13 | <0.10 | | ppbv | |
| | | | o-Xylene | 2024/05/13 | <0.050 | | ppbv | |
| | | | Styrene | 2024/05/13 | <0.050 | | ppbv | |
| | | | Chlorobenzene | 2024/05/13 | <0.050 | | ppbv | |
| | | | 1,4-Dichlorobenzene | 2024/05/13 | <0.050 | | ppbv | |
| | | | 1,2-Dichlorobenzene | 2024/05/13 | <0.050 | | ppbv | |
| | | | 1,2,4-Trichlorobenzene | 2024/05/13 | <0.10 | | ppbv | |
| | | | Hexachlorobutadiene | 2024/05/13 | <0.0047 | | ppbv | |
| | | | Hexane | 2024/05/13 | <0.10 | | ppbv | |
| | | | Naphthalene | 2024/05/13 | <0.10 | | ppbv | |
| | | | Total Xylenes | 2024/05/13 | <0.15 | | ppbv | |
| | | | 1,1,1,2-Tetrachloroethane | 2024/05/13 | <0.021 | | ppbv | |
| 9389156 | XGA | RPD [ZDB487-01] | 2-Propanone | 2024/05/13 | NC | | % | N/A |
| | | | Vinyl Chloride | 2024/05/13 | NC | | % | 25 |
| | | | Methyl Ethyl Ketone (2-Butanone) | 2024/05/13 | 2.7 | | % | 25 |
| | | | Methyl Isobutyl Ketone | 2024/05/13 | NC | | % | 25 |
| | | | Methyl t-butyl ether (MTBE) | 2024/05/13 | NC | | % | 25 |
| | | | 1,1-Dichloroethylene | 2024/05/13 | NC | | % | 25 |
| | | | cis-1,2-Dichloroethylene | 2024/05/13 | 0.94 | | % | 25 |
| | | | trans-1,2-Dichloroethylene | 2024/05/13 | NC | | % | 25 |
| | | | Methylene Chloride(Dichloromethane) | 2024/05/13 | 3.8 | | % | 25 |
| | | | Chloroform | 2024/05/13 | 1.1 | | % | 25 |
| | | | Carbon Tetrachloride | 2024/05/13 | 1.2 | | % | 25 |
| | | | 1,1-Dichloroethane | 2024/05/13 | NC | | % | 25 |
| | | | 1,2-Dichloroethane | 2024/05/13 | 0.14 | | % | 25 |
| | | | Ethylene Dibromide | 2024/05/13 | NC | | % | 25 |
| | | | 1,1,1-Trichloroethane | 2024/05/13 | NC | | % | 25 |
| | | | 1,1,2-Trichloroethane | 2024/05/13 | NC | | % | 25 |
| | | | 1,1,2,2-Tetrachloroethane | 2024/05/13 | NC | | % | 25 |
| | | | cis-1,3-Dichloropropene | 2024/05/13 | NC | | % | 25 |
| | | | trans-1,3-Dichloropropene | 2024/05/13 | NC | | % | 25 |
| | | | 1,2-Dichloropropane | 2024/05/13 | NC | | % | 25 |
| | | | Bromomethane | 2024/05/13 | NC | | % | 25 |
| | | | Bromoform | 2024/05/13 | NC | | % | 25 |
| | | | Trichloroethylene | 2024/05/13 | 0.72 | | % | 25 |
| | | | Tetrachloroethylene | 2024/05/13 | 0.56 | | % | 25 |
| | | | Benzene | 2024/05/13 | 3.1 | | % | 25 |
| | | | Toluene | 2024/05/13 | 0.18 | | % | 25 |
| | | | Ethylbenzene | 2024/05/13 | NC | | % | 25 |
| | | | p+m-Xylene | 2024/05/13 | NC | | % | 25 |
| | | | o-Xylene | 2024/05/13 | NC | | % | 25 |
| | | | Styrene | 2024/05/13 | NC | | % | 25 |
| | | | Chlorobenzene | 2024/05/13 | NC | | % | 25 |
| | | | 1,4-Dichlorobenzene | 2024/05/13 | NC | | % | 25 |
| | | | 1,2-Dichlorobenzene | 2024/05/13 | NC | | % | 25 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | 1,2,4-Trichlorobenzene | 2024/05/13 | NC | | % | 25 |
| | | | Hexachlorobutadiene | 2024/05/13 | NC | | % | 25 |
| | | | Hexane | 2024/05/13 | NC | | % | 25 |
| | | | Naphthalene | 2024/05/13 | NC | | % | 25 |
| | | | Total Xylenes | 2024/05/13 | NC | | % | 25 |
| | | | 1,1,1,2-Tetrachloroethane | 2024/05/13 | NC | | % | 25 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4E0184
Report Date: 2024/05/24

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Your P.O. #: EICAC026300307
Sampler Initials: JMF

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Melanie Mabini, Team Leader

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: EICAC026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: NA

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/06/19**
Report #: R8197980
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4G9871**
**Received: 2024/06/06, 08:25**

Sample Matrix: Air
# Samples Received: 1

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | 1 | N/A | 2024/06/07 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air by GC/MS/SIM (1) | 1 | N/A | 2024/06/07 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air (TO-15) (2) | 1 | N/A | 2024/06/07 | BRL SOP-00304 | EPA TO-15 m |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Your P.O. #: EICAC026300307
Your Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your C.O.C. #: NA

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/06/19**
Report #: R8197980
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

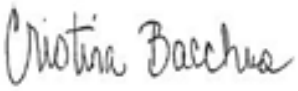
**BUREAU VERITAS JOB #: C4G9871**

**Received: 2024/06/06, 08:25**

(2) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key



Cristina (Maria) Bacchus
Project Manager
19 Jun 2024 16:49:27

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

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This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4G9871
Report Date: 2024/06/19

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JMF

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| Bureau Veritas ID | | ZJG704 | ZJG704 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2024/06/02 | 2024/06/02 | | |
| COC Number | | NA | NA | | |
| | UNITS | JUNE 1 SUMMA BELL TOWERS | JUNE 1 SUMMA BELL TOWERS Lab-Dup | RDL | QC Batch |
| **Volatile Organics** | | | | | |
| Pressure on Receipt | psig | (-2.6) | N/A | N/A | 9440834 |
| 2-Propanone | ppbv | 5.97 | 6.02 | 0.10 | 9440833 |
| Dichlorodifluoromethane (FREON 12) | ppbv | 0.44 | 0.43 | 0.20 | 9440831 |
| 1,2-Dichlorotetrafluoroethane | ppbv | <0.17 | <0.17 | 0.17 | 9440831 |
| Chloromethane | ppbv | 0.51 | 0.50 | 0.30 | 9440831 |
| Vinyl Chloride | ppbv | <0.020 | <0.020 | 0.020 | 9440833 |
| Chloroethane | ppbv | <0.30 | <0.30 | 0.30 | 9440831 |
| 1,3-Butadiene | ppbv | <0.50 | <0.50 | 0.50 | 9440831 |
| Trichlorofluoromethane (FREON 11) | ppbv | 0.28 | 0.27 | 0.20 | 9440831 |
| Ethanol (ethyl alcohol) | ppbv | <1.0 | <1.0 | 1.0 | 9440831 |
| Trichlorotrifluoroethane | ppbv | <0.15 | <0.15 | 0.15 | 9440831 |
| 2-propanol | ppbv | <1.0 | <1.0 | 1.0 | 9440831 |
| Methyl Ethyl Ketone (2-Butanone) | ppbv | 0.21 | 0.20 | 0.10 | 9440833 |
| Methyl Isobutyl Ketone | ppbv | <0.10 | <0.10 | 0.10 | 9440833 |
| Methyl Butyl Ketone (2-Hexanone) | ppbv | <1.0 | <1.0 | 1.0 | 9440831 |
| Methyl t-butyl ether (MTBE) | ppbv | <0.10 | <0.10 | 0.10 | 9440833 |
| Ethyl Acetate | ppbv | <1.0 | <1.0 | 1.0 | 9440831 |
| 1,1-Dichloroethylene | ppbv | <0.050 | <0.050 | 0.050 | 9440833 |
| cis-1,2-Dichloroethylene | ppbv | <0.050 | <0.050 | 0.050 | 9440833 |
| trans-1,2-Dichloroethylene | ppbv | <0.10 | <0.10 | 0.10 | 9440833 |
| Methylene Chloride(Dichloromethane) | ppbv | 0.125 | 0.138 | 0.050 | 9440833 |
| Chloroform | ppbv | <0.040 | <0.040 | 0.040 | 9440833 |
| Carbon Tetrachloride | ppbv | 0.100 | 0.104 | 0.050 | 9440833 |
| 1,1-Dichloroethane | ppbv | <0.050 | <0.050 | 0.050 | 9440833 |
| 1,2-Dichloroethane | ppbv | 0.023 | 0.023 | 0.010 | 9440833 |
| Ethylene Dibromide | ppbv | <0.010 | <0.010 | 0.010 | 9440833 |
| 1,1,1-Trichloroethane | ppbv | <0.050 | <0.050 | 0.050 | 9440833 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable



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## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| Bureau Veritas ID | | ZJG704 | ZJG704 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2024/06/02 | 2024/06/02 | | |
| COC Number | | NA | NA | | |
| | UNITS | JUNE 1 SUMMA BELL TOWERS | JUNE 1 SUMMA BELL TOWERS Lab-Dup | RDL | QC Batch |
| 1,1,2-Trichloroethane | ppbv | <0.012 | <0.012 | 0.012 | 9440833 |
| 1,1,2,2-Tetrachloroethane | ppbv | <0.0027 | <0.0027 | 0.0027 | 9440833 |
| cis-1,3-Dichloropropene | ppbv | <0.050 | <0.050 | 0.050 | 9440833 |
| trans-1,3-Dichloropropene | ppbv | <0.050 | <0.050 | 0.050 | 9440833 |
| 1,2-Dichloropropane | ppbv | <0.050 | <0.050 | 0.050 | 9440833 |
| Bromomethane | ppbv | <0.050 | <0.050 | 0.050 | 9440833 |
| Bromoform | ppbv | <0.10 | <0.10 | 0.10 | 9440833 |
| Bromodichloromethane | ppbv | <0.20 | <0.20 | 0.20 | 9440831 |
| Dibromochloromethane | ppbv | <0.20 | <0.20 | 0.20 | 9440831 |
| Trichloroethylene | ppbv | <0.050 | <0.050 | 0.050 | 9440833 |
| Tetrachloroethylene | ppbv | <0.050 | <0.050 | 0.050 | 9440833 |
| Benzene | ppbv | <0.050 | <0.050 | 0.050 | 9440833 |
| Toluene | ppbv | <0.050 | <0.050 | 0.050 | 9440833 |
| Ethylbenzene | ppbv | <0.050 | <0.050 | 0.050 | 9440833 |
| p+m-Xylene | ppbv | <0.10 | <0.10 | 0.10 | 9440833 |
| o-Xylene | ppbv | <0.050 | <0.050 | 0.050 | 9440833 |
| Styrene | ppbv | <0.050 | <0.050 | 0.050 | 9440833 |
| 4-ethyltoluene | ppbv | <0.50 | <0.50 | 0.50 | 9440831 |
| 1,3,5-Trimethylbenzene | ppbv | <0.50 | <0.50 | 0.50 | 9440831 |
| 1,2,4-Trimethylbenzene | ppbv | <0.50 | <0.50 | 0.50 | 9440831 |
| Chlorobenzene | ppbv | <0.050 | <0.050 | 0.050 | 9440833 |
| Benzyl chloride | ppbv | <0.50 | <0.50 | 0.50 | 9440831 |
| 1,3-Dichlorobenzene | ppbv | <0.40 | <0.40 | 0.40 | 9440831 |
| 1,4-Dichlorobenzene | ppbv | <0.050 | <0.050 | 0.050 | 9440833 |
| 1,2-Dichlorobenzene | ppbv | <0.050 | <0.050 | 0.050 | 9440833 |
| 1,2,4-Trichlorobenzene | ppbv | <0.10 | <0.10 | 0.10 | 9440833 |
| Hexachlorobutadiene | ppbv | <0.0047 | <0.0047 | 0.0047 | 9440833 |
| Hexane | ppbv | <0.10 | <0.10 | 0.10 | 9440833 |
| Heptane | ppbv | <0.30 | <0.30 | 0.30 | 9440831 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JMF

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| Bureau Veritas ID | | ZJG704 | ZJG704 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2024/06/02 | 2024/06/02 | | |
| COC Number | | NA | NA | | |
| | UNITS | JUNE 1 SUMMA BELL TOWERS | JUNE 1 SUMMA BELL TOWERS Lab-Dup | RDL | QC Batch |
| Cyclohexane | ppbv | <0.20 | <0.20 | 0.20 | 9440831 |
| Tetrahydrofuran | ppbv | <0.40 | <0.40 | 0.40 | 9440831 |
| 1,4-Dioxane | ppbv | <1.0 | <1.0 | 1.0 | 9440831 |
| Naphthalene | ppbv | <0.10 | <0.10 | 0.10 | 9440833 |
| Total Xylenes | ppbv | <0.15 | <0.15 | 0.15 | 9440833 |
| 1,1,1,2-Tetrachloroethane | ppbv | <0.021 | <0.021 | 0.021 | 9440833 |
| Vinyl Bromide | ppbv | <0.20 | <0.20 | 0.20 | 9440831 |
| Propene | ppbv | <0.50 | <0.50 | 0.50 | 9440831 |
| 2,2,4-Trimethylpentane | ppbv | <0.20 | <0.20 | 0.20 | 9440831 |
| Carbon Disulfide | ppbv | <0.50 | <0.50 | 0.50 | 9440831 |
| Vinyl Acetate | ppbv | <0.20 | <0.20 | 0.20 | 9440831 |
| **Surrogate Recovery (%)** | | | | | |
| Bromochloromethane | % | 96 | 95 | N/A | 9440833 |
| D5-Chlorobenzene | % | 89 | 85 | N/A | 9440833 |
| Difluorobenzene | % | 88 | 84 | N/A | 9440833 |
| Bromochloromethane | % | 96 | 95 | N/A | 9440831 |
| D5-Chlorobenzene | % | 89 | 85 | N/A | 9440831 |
| Difluorobenzene | % | 88 | 84 | N/A | 9440831 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4G9871
Report Date: 2024/06/19

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JMF

## TEST SUMMARY

**Bureau Veritas ID:** ZJG704
**Sample ID:** JUNE 1 SUMMA BELL TOWERS
**Matrix:** Air

**Collected:** 2024/06/02
**Shipped:**
**Received:** 2024/06/06

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | PRES | 9440834 | N/A | 2024/06/07 | Gagandeep Kaur |
| Volatile Organics in Air by GC/MS/SIM | GC/MS | 9440833 | N/A | 2024/06/07 | Gagandeep Kaur |
| Volatile Organics in Air (TO-15) | GC/MS | 9440831 | N/A | 2024/06/07 | Gagandeep Kaur |

**Bureau Veritas ID:** ZJG704 Dup
**Sample ID:** JUNE 1 SUMMA BELL TOWERS
**Matrix:** Air

**Collected:** 2024/06/02
**Shipped:**
**Received:** 2024/06/06

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Volatile Organics in Air by GC/MS/SIM | GC/MS | 9440833 | N/A | 2024/06/07 | Gagandeep Kaur |
| Volatile Organics in Air (TO-15) | GC/MS | 9440831 | N/A | 2024/06/07 | Gagandeep Kaur |



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## GENERAL COMMENTS

**Results relate only to the items tested.**



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## QUALITY ASSURANCE REPORT



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 9440831 | Bromochloromethane | 2024/06/07 | 101 | 60 - 140 | 104 | % | | |
| 9440831 | D5-Chlorobenzene | 2024/06/07 | 103 | 60 - 140 | 87 | % | | |
| 9440831 | Difluorobenzene | 2024/06/07 | 106 | 60 - 140 | 94 | % | | |
| 9440833 | Bromochloromethane | 2024/06/07 | 101 | 60 - 140 | 104 | % | | |
| 9440833 | D5-Chlorobenzene | 2024/06/07 | 103 | 60 - 140 | 87 | % | | |
| 9440833 | Difluorobenzene | 2024/06/07 | 106 | 60 - 140 | 94 | % | | |
| 9440831 | 1,2,4-Trimethylbenzene | 2024/06/07 | 116 | 70 - 130 | <0.50 | ppbv | NC (2) | 25 |
| 9440831 | 1,2-Dichlorotetrafluoroethane | 2024/06/07 | 91 | 70 - 130 | <0.17 | ppbv | NC (2) | 25 |
| 9440831 | 1,3,5-Trimethylbenzene | 2024/06/07 | 113 | 70 - 130 | <0.50 | ppbv | NC (2) | 25 |
| 9440831 | 1,3-Butadiene | 2024/06/07 | 98 | 70 - 130 | <0.50 | ppbv | NC (2) | 25 |
| 9440831 | 1,3-Dichlorobenzene | 2024/06/07 | 103 | 70 - 130 | <0.40 | ppbv | NC (2) | 25 |
| 9440831 | 1,4-Dioxane | 2024/06/07 | 107 | 70 - 130 | <1.0 | ppbv | NC (2) | 25 |
| 9440831 | 2,2,4-Trimethylpentane | 2024/06/07 | 98 | 70 - 130 | <0.20 | ppbv | NC (2) | 25 |
| 9440831 | 2-propanol | 2024/06/07 | 102 | 70 - 130 | <1.0 | ppbv | NC (2) | 25 |
| 9440831 | 4-ethyltoluene | 2024/06/07 | 113 | 70 - 130 | <0.50 | ppbv | NC (2) | 25 |
| 9440831 | Benzyl chloride | 2024/06/07 | 109 | 70 - 130 | <0.50 | ppbv | NC (2) | 25 |
| 9440831 | Bromodichloromethane | 2024/06/07 | 92 | 70 - 130 | <0.20 | ppbv | NC (2) | 25 |
| 9440831 | Carbon Disulfide | 2024/06/07 | 67 (1) | 70 - 130 | <0.50 | ppbv | NC (2) | 25 |
| 9440831 | Chloroethane | 2024/06/07 | 100 | 70 - 130 | <0.30 | ppbv | NC (2) | 25 |
| 9440831 | Chloromethane | 2024/06/07 | 93 | 70 - 130 | <0.30 | ppbv | 2.0 (2) | 25 |
| 9440831 | Cyclohexane | 2024/06/07 | 107 | 70 - 130 | <0.20 | ppbv | NC (2) | 25 |
| 9440831 | Dibromochloromethane | 2024/06/07 | 97 | 70 - 130 | <0.20 | ppbv | NC (2) | 25 |
| 9440831 | Dichlorodifluoromethane (FREON 12) | 2024/06/07 | 85 | 70 - 130 | <0.20 | ppbv | 2.1 (2) | 25 |
| 9440831 | Ethanol (ethyl alcohol) | 2024/06/07 | 106 | 70 - 130 | <1.0 | ppbv | NC (2) | 25 |
| 9440831 | Ethyl Acetate | 2024/06/07 | 106 | 70 - 130 | <1.0 | ppbv | NC (2) | 25 |
| 9440831 | Heptane | 2024/06/07 | 104 | 70 - 130 | <0.30 | ppbv | NC (2) | 25 |
| 9440831 | Methyl Butyl Ketone (2-Hexanone) | 2024/06/07 | 105 | 70 - 130 | <1.0 | ppbv | NC (2) | 25 |
| 9440831 | Propene | 2024/06/07 | 101 | 70 - 130 | <0.50 | ppbv | NC (2) | 25 |
| 9440831 | Tetrahydrofuran | 2024/06/07 | 114 | 70 - 130 | <0.40 | ppbv | NC (2) | 25 |
| 9440831 | Trichlorofluoromethane (FREON 11) | 2024/06/07 | 91 | 70 - 130 | <0.20 | ppbv | 3.1 (2) | 25 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 9440831 | Trichlorotrifluoroethane | 2024/06/07 | 94 | 70 - 130 | <0.15 | ppbv | NC (2) | 25 |
| 9440831 | Vinyl Acetate | 2024/06/07 | 112 | 70 - 130 | <0.20 | ppbv | NC (2) | 25 |
| 9440831 | Vinyl Bromide | 2024/06/07 | 89 | 70 - 130 | <0.20 | ppbv | NC (2) | 25 |
| 9440833 | 1,1,1,2-Tetrachloroethane | 2024/06/07 | 95 | 70 - 130 | <0.021 | ppbv | NC (2) | 25 |
| 9440833 | 1,1,1-Trichloroethane | 2024/06/07 | 95 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 9440833 | 1,1,2,2-Tetrachloroethane | 2024/06/07 | 100 | 70 - 130 | <0.0027 | ppbv | NC (2) | 25 |
| 9440833 | 1,1,2-Trichloroethane | 2024/06/07 | 98 | 70 - 130 | <0.012 | ppbv | NC (2) | 25 |
| 9440833 | 1,1-Dichloroethane | 2024/06/07 | 96 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 9440833 | 1,1-Dichloroethylene | 2024/06/07 | 97 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 9440833 | 1,2,4-Trichlorobenzene | 2024/06/07 | 108 | 70 - 130 | <0.10 | ppbv | NC (2) | 25 |
| 9440833 | 1,2-Dichlorobenzene | 2024/06/07 | 104 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 9440833 | 1,2-Dichloroethane | 2024/06/07 | 99 | 70 - 130 | <0.010 | ppbv | 1.3 (2) | 25 |
| 9440833 | 1,2-Dichloropropane | 2024/06/07 | 100 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 9440833 | 1,4-Dichlorobenzene | 2024/06/07 | 104 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 9440833 | 2-Propanone | 2024/06/07 | 95 | 70 - 130 | <0.10 | ppbv | NC (2) | N/A |
| 9440833 | Benzene | 2024/06/07 | 103 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 9440833 | Bromoform | 2024/06/07 | 102 | 70 - 130 | <0.10 | ppbv | NC (2) | 25 |
| 9440833 | Bromomethane | 2024/06/07 | 95 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 9440833 | Carbon Tetrachloride | 2024/06/07 | 94 | 70 - 130 | <0.050 | ppbv | 3.8 (2) | 25 |
| 9440833 | Chlorobenzene | 2024/06/07 | 106 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 9440833 | Chloroform | 2024/06/07 | 100 | 70 - 130 | <0.040 | ppbv | NC (2) | 25 |
| 9440833 | cis-1,2-Dichloroethylene | 2024/06/07 | 104 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 9440833 | cis-1,3-Dichloropropene | 2024/06/07 | 103 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 9440833 | Ethylbenzene | 2024/06/07 | 111 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 9440833 | Ethylene Dibromide | 2024/06/07 | 99 | 70 - 130 | <0.010 | ppbv | NC (2) | 25 |
| 9440833 | Hexachlorobutadiene | 2024/06/07 | 111 | 70 - 130 | <0.0047 | ppbv | NC (2) | 25 |
| 9440833 | Hexane | 2024/06/07 | 108 | 70 - 130 | <0.10 | ppbv | NC (2) | 25 |
| 9440833 | Methyl Ethyl Ketone (2-Butanone) | 2024/06/07 | 107 | 70 - 130 | <0.10 | ppbv | 4.8 (2) | 25 |
| 9440833 | Methyl Isobutyl Ketone | 2024/06/07 | 101 | 70 - 130 | <0.10 | ppbv | NC (2) | 25 |
| 9440833 | Methyl t-butyl ether (MTBE) | 2024/06/07 | 110 | 70 - 130 | <0.10 | ppbv | NC (2) | 25 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 9440833 | Methylene Chloride(Dichloromethane) | 2024/06/07 | 83 | 70 - 130 | <0.050 | ppbv | 9.3 (2) | 25 |
| 9440833 | Naphthalene | 2024/06/07 | 115 | 70 - 130 | <0.10 | ppbv | NC (2) | 25 |
| 9440833 | o-Xylene | 2024/06/07 | 104 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 9440833 | p+m-Xylene | 2024/06/07 | 111 | 70 - 130 | <0.10 | ppbv | NC (2) | 25 |
| 9440833 | Styrene | 2024/06/07 | 114 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 9440833 | Tetrachloroethylene | 2024/06/07 | 106 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 9440833 | Toluene | 2024/06/07 | 106 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 9440833 | Total Xylenes | 2024/06/07 | 109 | 70 - 130 | <0.15 | ppbv | NC (2) | 25 |
| 9440833 | trans-1,2-Dichloroethylene | 2024/06/07 | 103 | 70 - 130 | <0.10 | ppbv | NC (2) | 25 |
| 9440833 | trans-1,3-Dichloropropene | 2024/06/07 | 109 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 9440833 | Trichloroethylene | 2024/06/07 | 102 | 70 - 130 | <0.050 | ppbv | NC (2) | 25 |
| 9440833 | Vinyl Chloride | 2024/06/07 | 103 | 70 - 130 | <0.020 | ppbv | NC (2) | 25 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

(2) Duplicate Parent ID [ZJG704-01]



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

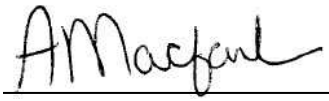
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4G9871
Report Date: 2024/06/19

WSP Canada Inc.
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: JMF

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anke Macfarlane, Laboratory Manager, VOC

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

06-Jun-24 08:25
Cristina (Maria) Bacchus
C4G9871

CAM FCD-01302 /3

BUREAU VERITAS

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

# Chain of Custody Form - Summa™ Canister

Page 1 of 1

INVOIC C1V AIR-001

| | | | |
|---|---|---|---|
| **Company Name:** | | **Company Name:** | Kinross/WSP E&I Canada |
| **Contact Name** | Ryan Fletcher | **Project Manager:** | Ryan Fletcher |
| **Address:** | | **Address:** | 19 Young Street, Red Lake ON, CA, P0V 2M0 |
| **E-mail:** | CAPayablesInvoice@wsp.com | **E-mail:** | See comments below for list |
| **Ph:** | | **Ph:** | 1 647-283-4638 |
| **Sampled by:** | Jacob McFee | | |

**IFORMATION**

**ANALYSIS REQUESTED**

| Field Sample ID | Canister Serial # | Flow Regulator Serial # | Collection Date | START VACUUM (inches of Hg) | END VACUUM (inches of Hg) | SOIL VAPOUR | AMBIENT/INDOOR AIR | AMBIENT/COMMERCIAL/INDUSTRIAL | SUB-SLAB GAS | FULL LIST OF VOCs (reference TO15A) | BTEX/Aromatic/Aliphatic Hydrocarbon Fractions | BTEX/F1 (C6-C10) and F2 (C10-C16) | Selected VOC's - please specify | Other | | | | CANISTERS NOT USED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JUNE 1 Summa Bell Towers | SX0391 | FX142 | 2-Jun | -28 | -5 | | X | | | X | | | | | | | | |
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**TAT Requirement**

| | |
|---|---|
| STD 10 Business day | ☑ |
| Rush 5 Business day * | ☐ |
| Rush 2 Business day * | ☐ |
| Rush Other * | ☐ |

* need approval from Bureau Veritas

**PROJECT INFORMATION**

| | |
|---|---|
| Project #: | OMEMA2303.2023D.100 |
| Name: | Kinross Project |
| PO #: | EICAC026300307 |
| Bureau Veritas Quote #: | |
| Bureau Veritas Contact: | Cristina Bacchus |
| Task Order/Line Item | |

**REPORTING REQUIREMENTS**

| | | |
|---|---|---|
| EDD | | ☑ |
| Regulations | ON 153 | ☑ |
| | ON 419 | ☑ |
| | BC CSR | ☑ |
| Other | | |

**Notes**

*1) please indicate on chain of custody if your samples are soil vapour or ambient air*

*2) please list all canisters on the chain of custody even if unused*

**PROJECT SPECIFIC COMMENTS**

Please send results to the following:
jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; ryan.fletcher@wsp.com; airgroup@wsp.com; emily.meek@kinross.com; curtis.bloemberg@kinross.com; aaron.peloquin@kinross.com

**PLEASE RETURN ALL UNUSED EQUIPMENT**

| | | | |
|---|---|---|---|
| Client Signature: | E Meek | Received by: | Cindy Vong |
| Date/Time: | 3 June /24 | Date/Time: | 2024/06/06 08:25 |

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions*

Your P.O. #: P104312CA001
Your Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your C.O.C. #: NA

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/07/19**
Report #: R8241497
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4K6529**
**Received: 2024/07/08, 08:32**

Sample Matrix: Air
# Samples Received: 1

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | 1 | N/A | 2024/07/10 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air by GC/MS/SIM (1) | 1 | N/A | 2024/07/10 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air (TO-15) (2) | 1 | N/A | 2024/07/10 | BRL SOP-00304 | EPA TO-15 m |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Your P.O. #: P104312CA001
Your Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your C.O.C. #: NA

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/07/19**
Report #: R8241497
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

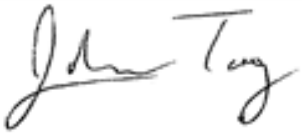
**BUREAU VERITAS JOB #: C4K6529**

**Received: 2024/07/08, 08:32**

(2) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key



Julian Tong
Project Manager Assistant
19 Jul 2024 17:54:56

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

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Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4K6529
Report Date: 2024/07/19

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: RF

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| **Bureau Veritas ID** | | ZQT903 | | |
|---|---|---|---|---|
| **Sampling Date** | | 2024/07/02 | | |
| **COC Number** | | NA | | |
| | **UNITS** | **JULY 1 SUMMA BELL TOWERS/SX1640** | **RDL** | **QC Batch** |
| **Volatile Organics** | | | | |
| Pressure on Receipt | psig | (-0.3) | N/A | 9505409 |
| 2-Propanone | ppbv | 2.50 | 0.15 | 9505408 |
| Dichlorodifluoromethane (FREON 12) | ppbv | 0.49 | 0.20 | 9505405 |
| 1,2-Dichlorotetrafluoroethane | ppbv | <0.17 | 0.17 | 9505405 |
| Chloromethane | ppbv | 0.47 | 0.30 | 9505405 |
| Vinyl Chloride | ppbv | <0.020 | 0.020 | 9505408 |
| Chloroethane | ppbv | <0.30 | 0.30 | 9505405 |
| 1,3-Butadiene | ppbv | <0.50 | 0.50 | 9505405 |
| Trichlorofluoromethane (FREON 11) | ppbv | 0.26 | 0.20 | 9505405 |
| Ethanol (ethyl alcohol) | ppbv | <1.0 | 1.0 | 9505405 |
| Trichlorotrifluoroethane | ppbv | <0.15 | 0.15 | 9505405 |
| 2-propanol | ppbv | <1.0 | 1.0 | 9505405 |
| Methyl Ethyl Ketone (2-Butanone) | ppbv | 0.15 | 0.10 | 9505408 |
| Methyl Isobutyl Ketone | ppbv | <0.10 | 0.10 | 9505408 |
| Methyl Butyl Ketone (2-Hexanone) | ppbv | <1.0 | 1.0 | 9505405 |
| Methyl t-butyl ether (MTBE) | ppbv | <0.10 | 0.10 | 9505408 |
| Ethyl Acetate | ppbv | <1.0 | 1.0 | 9505405 |
| 1,1-Dichloroethylene | ppbv | <0.050 | 0.050 | 9505408 |
| cis-1,2-Dichloroethylene | ppbv | <0.050 | 0.050 | 9505408 |
| trans-1,2-Dichloroethylene | ppbv | <0.10 | 0.10 | 9505408 |
| Methylene Chloride(Dichloromethane) | ppbv | 0.112 | 0.050 | 9505408 |
| Chloroform | ppbv | <0.040 | 0.040 | 9505408 |
| Carbon Tetrachloride | ppbv | 0.089 | 0.050 | 9505408 |
| 1,1-Dichloroethane | ppbv | <0.050 | 0.050 | 9505408 |
| 1,2-Dichloroethane | ppbv | 0.016 | 0.010 | 9505408 |
| Ethylene Dibromide | ppbv | <0.010 | 0.010 | 9505408 |
| 1,1,1-Trichloroethane | ppbv | <0.050 | 0.050 | 9505408 |
| 1,1,2-Trichloroethane | ppbv | <0.012 | 0.012 | 9505408 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| **Bureau Veritas ID** | | ZQT903 | | |
|---|---|---|---|---|
| **Sampling Date** | | 2024/07/02 | | |
| **COC Number** | | NA | | |
| | **UNITS** | **JULY 1 SUMMA BELL TOWERS/SX1640** | **RDL** | **QC Batch** |
| 1,1,2,2-Tetrachloroethane | ppbv | <0.0027 | 0.0027 | 9505408 |
| cis-1,3-Dichloropropene | ppbv | <0.050 | 0.050 | 9505408 |
| trans-1,3-Dichloropropene | ppbv | <0.050 | 0.050 | 9505408 |
| 1,2-Dichloropropane | ppbv | <0.050 | 0.050 | 9505408 |
| Bromomethane | ppbv | <0.050 | 0.050 | 9505408 |
| Bromoform | ppbv | <0.10 | 0.10 | 9505408 |
| Bromodichloromethane | ppbv | <0.20 | 0.20 | 9505405 |
| Dibromochloromethane | ppbv | <0.20 | 0.20 | 9505405 |
| Trichloroethylene | ppbv | <0.050 | 0.050 | 9505408 |
| Tetrachloroethylene | ppbv | <0.050 | 0.050 | 9505408 |
| Benzene | ppbv | <0.050 | 0.050 | 9505408 |
| Toluene | ppbv | <0.050 | 0.050 | 9505408 |
| Ethylbenzene | ppbv | <0.050 | 0.050 | 9505408 |
| p+m-Xylene | ppbv | <0.10 | 0.10 | 9505408 |
| o-Xylene | ppbv | <0.050 | 0.050 | 9505408 |
| Styrene | ppbv | <0.050 | 0.050 | 9505408 |
| 4-ethyltoluene | ppbv | <0.50 | 0.50 | 9505405 |
| 1,3,5-Trimethylbenzene | ppbv | <0.50 | 0.50 | 9505405 |
| 1,2,4-Trimethylbenzene | ppbv | <0.50 | 0.50 | 9505405 |
| Chlorobenzene | ppbv | <0.050 | 0.050 | 9505408 |
| Benzyl chloride | ppbv | <0.50 | 0.50 | 9505405 |
| 1,3-Dichlorobenzene | ppbv | <0.40 | 0.40 | 9505405 |
| 1,4-Dichlorobenzene | ppbv | <0.050 | 0.050 | 9505408 |
| 1,2-Dichlorobenzene | ppbv | <0.050 | 0.050 | 9505408 |
| 1,2,4-Trichlorobenzene | ppbv | <0.10 | 0.10 | 9505408 |
| Hexachlorobutadiene | ppbv | <0.0047 | 0.0047 | 9505408 |
| Hexane | ppbv | <0.10 | 0.10 | 9505408 |
| Heptane | ppbv | <0.30 | 0.30 | 9505405 |
| Cyclohexane | ppbv | <0.20 | 0.20 | 9505405 |
| Tetrahydrofuran | ppbv | <0.40 | 0.40 | 9505405 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4K6529
Report Date: 2024/07/19

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: RF

## TO15 FOR AMBIENT/INDOOR VAPOUR (AIR)

| **Bureau Veritas ID** | | ZQT903 | | |
|---|---|---|---|---|
| **Sampling Date** | | 2024/07/02 | | |
| **COC Number** | | NA | | |
| | **UNITS** | **JULY 1 SUMMA BELL TOWERS/SX1640** | **RDL** | **QC Batch** |
| 1,4-Dioxane | ppbv | <1.0 | 1.0 | 9505405 |
| Naphthalene | ppbv | <0.10 | 0.10 | 9505408 |
| Total Xylenes | ppbv | <0.15 | 0.15 | 9505408 |
| 1,1,1,2-Tetrachloroethane | ppbv | <0.021 | 0.021 | 9505408 |
| Vinyl Bromide | ppbv | <0.20 | 0.20 | 9505405 |
| Propene | ppbv | <0.50 | 0.50 | 9505405 |
| 2,2,4-Trimethylpentane | ppbv | <0.20 | 0.20 | 9505405 |
| Carbon Disulfide | ppbv | <0.50 | 0.50 | 9505405 |
| Vinyl Acetate | ppbv | <0.20 | 0.20 | 9505405 |
| **Surrogate Recovery (%)** | | | | |
| Bromochloromethane | % | 103 | N/A | 9505408 |
| D5-Chlorobenzene | % | 94 | N/A | 9505408 |
| Difluorobenzene | % | 96 | N/A | 9505408 |
| Bromochloromethane | % | 103 | N/A | 9505405 |
| D5-Chlorobenzene | % | 94 | N/A | 9505405 |
| Difluorobenzene | % | 96 | N/A | 9505405 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Bureau Veritas Job #: C4K6529
Report Date: 2024/07/19

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: RF

## TEST SUMMARY

**Bureau Veritas ID:** ZQT903
**Sample ID:** JULY 1 SUMMA BELL TOWERS/SX1640
**Matrix:** Air

**Collected:** 2024/07/02
**Shipped:**
**Received:** 2024/07/08

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | PRES | 9505409 | N/A | 2024/07/10 | Gagandeep Kaur |
| Volatile Organics in Air by GC/MS/SIM | GC/MS | 9505408 | N/A | 2024/07/10 | Gagandeep Kaur |
| Volatile Organics in Air (TO-15) | GC/MS | 9505405 | N/A | 2024/07/10 | Gagandeep Kaur |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 9505405 | Bromochloromethane | 2024/07/10 | 101 | 60 - 140 | 106 | % | | |
| 9505405 | D5-Chlorobenzene | 2024/07/10 | 101 | 60 - 140 | 88 | % | | |
| 9505405 | Difluorobenzene | 2024/07/10 | 102 | 60 - 140 | 95 | % | | |
| 9505408 | Bromochloromethane | 2024/07/10 | 101 | 60 - 140 | 106 | % | | |
| 9505408 | D5-Chlorobenzene | 2024/07/10 | 101 | 60 - 140 | 88 | % | | |
| 9505408 | Difluorobenzene | 2024/07/10 | 102 | 60 - 140 | 95 | % | | |
| 9505405 | 1,2,4-Trimethylbenzene | 2024/07/10 | 103 | 70 - 130 | <0.50 | ppbv | | |
| 9505405 | 1,2-Dichlorotetrafluoroethane | 2024/07/10 | 89 | 70 - 130 | <0.17 | ppbv | | |
| 9505405 | 1,3,5-Trimethylbenzene | 2024/07/10 | 101 | 70 - 130 | <0.50 | ppbv | | |
| 9505405 | 1,3-Butadiene | 2024/07/10 | 90 | 70 - 130 | <0.50 | ppbv | | |
| 9505405 | 1,3-Dichlorobenzene | 2024/07/10 | 101 | 70 - 130 | <0.40 | ppbv | | |
| 9505405 | 1,4-Dioxane | 2024/07/10 | 102 | 70 - 130 | <1.0 | ppbv | | |
| 9505405 | 2,2,4-Trimethylpentane | 2024/07/10 | 97 | 70 - 130 | <0.20 | ppbv | | |
| 9505405 | 2-propanol | 2024/07/10 | 97 | 70 - 130 | <1.0 | ppbv | | |
| 9505405 | 4-ethyltoluene | 2024/07/10 | 107 | 70 - 130 | <0.50 | ppbv | | |
| 9505405 | Benzyl chloride | 2024/07/10 | 115 | 70 - 130 | <0.50 | ppbv | | |
| 9505405 | Bromodichloromethane | 2024/07/10 | 92 | 70 - 130 | <0.20 | ppbv | | |
| 9505405 | Carbon Disulfide | 2024/07/10 | 70 | 70 - 130 | <0.50 | ppbv | | |
| 9505405 | Chloroethane | 2024/07/10 | 93 | 70 - 130 | <0.30 | ppbv | | |
| 9505405 | Chloromethane | 2024/07/10 | 89 | 70 - 130 | <0.30 | ppbv | | |
| 9505405 | Cyclohexane | 2024/07/10 | 100 | 70 - 130 | <0.20 | ppbv | | |
| 9505405 | Dibromochloromethane | 2024/07/10 | 98 | 70 - 130 | <0.20 | ppbv | | |
| 9505405 | Dichlorodifluoromethane (FREON 12) | 2024/07/10 | 86 | 70 - 130 | <0.20 | ppbv | | |
| 9505405 | Ethanol (ethyl alcohol) | 2024/07/10 | 106 | 70 - 130 | <1.0 | ppbv | | |
| 9505405 | Ethyl Acetate | 2024/07/10 | 100 | 70 - 130 | <1.0 | ppbv | | |
| 9505405 | Heptane | 2024/07/10 | 98 | 70 - 130 | <0.30 | ppbv | | |
| 9505405 | Methyl Butyl Ketone (2-Hexanone) | 2024/07/10 | 106 | 70 - 130 | <1.0 | ppbv | | |
| 9505405 | Propene | 2024/07/10 | 94 | 70 - 130 | <0.50 | ppbv | | |
| 9505405 | Tetrahydrofuran | 2024/07/10 | 102 | 70 - 130 | <0.40 | ppbv | | |
| 9505405 | Trichlorofluoromethane (FREON 11) | 2024/07/10 | 89 | 70 - 130 | <0.20 | ppbv | | |



Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 9505405 | Trichlorotrifluoroethane | 2024/07/10 | 93 | 70 - 130 | <0.15 | ppbv | | |
| 9505405 | Vinyl Acetate | 2024/07/10 | 102 | 70 - 130 | <0.20 | ppbv | | |
| 9505405 | Vinyl Bromide | 2024/07/10 | 87 | 70 - 130 | <0.20 | ppbv | | |
| 9505408 | 1,1,1,2-Tetrachloroethane | 2024/07/10 | 98 | 70 - 130 | <0.021 | ppbv | NC (1) | 25 |
| 9505408 | 1,1,1-Trichloroethane | 2024/07/10 | 93 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9505408 | 1,1,2,2-Tetrachloroethane | 2024/07/10 | 93 | 70 - 130 | <0.0027 | ppbv | NC (1) | 25 |
| 9505408 | 1,1,2-Trichloroethane | 2024/07/10 | 95 | 70 - 130 | <0.012 | ppbv | NC (1) | 25 |
| 9505408 | 1,1-Dichloroethane | 2024/07/10 | 90 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9505408 | 1,1-Dichloroethylene | 2024/07/10 | 97 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9505408 | 1,2,4-Trichlorobenzene | 2024/07/10 | 110 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 9505408 | 1,2-Dichlorobenzene | 2024/07/10 | 101 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9505408 | 1,2-Dichloroethane | 2024/07/10 | 95 | 70 - 130 | <0.010 | ppbv | 3.7 (1) | 25 |
| 9505408 | 1,2-Dichloropropane | 2024/07/10 | 93 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9505408 | 1,4-Dichlorobenzene | 2024/07/10 | 105 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9505408 | 2-Propanone | 2024/07/10 | 103 | 70 - 130 | <0.15 | ppbv | NC (1) | N/A |
| 9505408 | Benzene | 2024/07/10 | 97 | 70 - 130 | <0.050 | ppbv | 2.0 (1) | 25 |
| 9505408 | Bromoform | 2024/07/10 | 103 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 9505408 | Bromomethane | 2024/07/10 | 91 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9505408 | Carbon Tetrachloride | 2024/07/10 | 92 | 70 - 130 | <0.050 | ppbv | 0.20 (1) | 25 |
| 9505408 | Chlorobenzene | 2024/07/10 | 98 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9505408 | Chloroform | 2024/07/10 | 95 | 70 - 130 | <0.040 | ppbv | 0.25 (1) | 25 |
| 9505408 | cis-1,2-Dichloroethylene | 2024/07/10 | 95 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9505408 | cis-1,3-Dichloropropene | 2024/07/10 | 97 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9505408 | Ethylbenzene | 2024/07/10 | 97 | 70 - 130 | <0.050 | ppbv | 1.5 (1) | 25 |
| 9505408 | Ethylene Dibromide | 2024/07/10 | 97 | 70 - 130 | <0.010 | ppbv | NC (1) | 25 |
| 9505408 | Hexachlorobutadiene | 2024/07/10 | 96 | 70 - 130 | <0.0047 | ppbv | NC (1) | 25 |
| 9505408 | Hexane | 2024/07/10 | 98 | 70 - 130 | <0.10 | ppbv | 4.8 (1) | 25 |
| 9505408 | Methyl Ethyl Ketone (2-Butanone) | 2024/07/10 | 102 | 70 - 130 | <0.10 | ppbv | 0.28 (1) | 25 |
| 9505408 | Methyl Isobutyl Ketone | 2024/07/10 | 95 | 70 - 130 | <0.10 | ppbv | 1.0 (1) | 25 |
| 9505408 | Methyl t-butyl ether (MTBE) | 2024/07/10 | 101 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## QUALITY ASSURANCE REPORT(CONT'D)



| | | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 9505408 | Methylene Chloride(Dichloromethane) | 2024/07/10 | 73 | 70 - 130 | <0.050 | ppbv | 7.2 (1) | 25 |
| 9505408 | Naphthalene | 2024/07/10 | 123 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 9505408 | o-Xylene | 2024/07/10 | 94 | 70 - 130 | <0.050 | ppbv | 0.89 (1) | 25 |
| 9505408 | p+m-Xylene | 2024/07/10 | 98 | 70 - 130 | <0.10 | ppbv | 1.2 (1) | 25 |
| 9505408 | Styrene | 2024/07/10 | 104 | 70 - 130 | <0.050 | ppbv | 0.76 (1) | 25 |
| 9505408 | Tetrachloroethylene | 2024/07/10 | 100 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9505408 | Toluene | 2024/07/10 | 96 | 70 - 130 | <0.050 | ppbv | 1.1 (1) | 25 |
| 9505408 | Total Xylenes | 2024/07/10 | 97 | 70 - 130 | <0.15 | ppbv | 1.1 (1) | 25 |
| 9505408 | trans-1,2-Dichloroethylene | 2024/07/10 | 97 | 70 - 130 | <0.10 | ppbv | NC (1) | 25 |
| 9505408 | trans-1,3-Dichloropropene | 2024/07/10 | 103 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9505408 | Trichloroethylene | 2024/07/10 | 98 | 70 - 130 | <0.050 | ppbv | NC (1) | 25 |
| 9505408 | Vinyl Chloride | 2024/07/10 | 90 | 70 - 130 | <0.020 | ppbv | NC (1) | 25 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Duplicate Parent ID



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4K6529
Report Date: 2024/07/19

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: RF

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Anke Macfarlane, Laboratory Manager, VOC

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

08-Jul-24 08:32

Cristina (Maria) Bacchus

C4K6529

BUREAU VERITAS

CAM FCD-01302 /3

Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

## Chain of Custody Form - Summa™ Canister



**INVOICE INFO** C1V AIR-001 **INFORMATION**

| | | | |
|---|---|---|---|
| **Company Name:** | | **Company Name:** | Kinross/WSP Canada Inc. |
| **Contact Name** | Ryan Fletcher | **Project Manager:** | Ryan Fletcher |
| **Address:** | | **Address:** | 19 Young Street, Red Lake ON, CA, P0V 2M0 |
| **E-mail:** | CAPayablesInvoice@wsp.com | **E-mail:** | See comments below for list |
| **Ph:** | | **Ph:** | 1 647-283-4638 |
| **Sampled by:** | | | |

**ANALYSIS REQUESTED**

| Field Sample ID | Canister Serial # | Flow Regulator Serial # | Collection Date | START VACUUM (inches of Hg) | END VACUUM (inches of Hg) | SOIL VAPOUR | AMBIENT/INDOOR AIR | AMBIENT/COMMERCIAL/INDUSTRIAL | SUB-SLAB GAS | FULL LIST OF VOCs (reference TO15A) | BTEX/Aromatic/Aliphatic Hydrocarbon Fractions | BTEX/F1 (C6-C10) and F2 (C10-C16) | Selected VOC's - please specify | Other | | | | CANISTERS NOT USED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| July 1 Summa Bell Towers | SX1640 | FX1368 | 2-Jul | | | | X | | | X | | | | | | | | |
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**TAT Requirement**

- STD 10 Business day ☑
- Rush 5 Business day * ☐
- Rush 2 Business day * ☐
- Rush Other * ☐

* need approval from Bureau Veritas

**PROJECT INFORMATION**

- Project #: CA0031272.9242
- Name: Kinross Project
- PO #: P104312CA001
- Bureau Veritas Quote #:
- Bureau Veritas Contact: Cristina Bacchus
- Task Order/Line Item

**REPORTING REQUIREMENTS**

- EDD ☑
- Regulations: ON 153 ☑; ON 419 ☑; BC CSR ☑
- Other

**Notes**

*1) please indicate on chain of custody if your samples are soil vapour or ambient air*

*2) please list all canisters on the chain of custody even if unused*

**PROJECT SPECIFIC COMMENTS**

Please send results to the following:
jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; ryan.fletcher@wsp.com; airgroup@wsp.com; emily.meek@kinross.com; curtis.bloemberg@kinross.com; aaron.peloquin@kinross.com

**PLEASE RETURN ALL UNUSED EQUIPMENT**

Client Signature: [signature]

Date/Time: July 3 2024 7:00

Received by: Cindy Vong

Date/Time: 2024/07/08 08:32

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions*

Your P.O. #: P104312CA001
Your Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your C.O.C. #: NA

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/07/19**
Report #: R8241497
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4K6529**
**Received: 2024/07/08, 08:32**

Sample Matrix: Air
# Samples Received: 1

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Canister Pressure (TO-15) | 1 | N/A | 2024/07/10 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air by GC/MS/SIM (1) | 1 | N/A | 2024/07/10 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air (TO-15) (2) | 1 | N/A | 2024/07/10 | BRL SOP-00304 | EPA TO-15 m |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

(2) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target

Your P.O. #: P104312CA001
Your Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your C.O.C. #: NA

**Attention: Kinross Project**

WSP Canada Inc.
160 Traders Blvd
Units 2 & 3
Mississauga, ON
CANADA L4Z3K7

**Report Date: 2024/07/19**
Report #: R8241497
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C4K6529**

**Received: 2024/07/08, 08:32**

analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key

Julian Tong
Project Manager Assistant
19 Jul 2024 17:55:12

Please direct all questions regarding this Certificate of Analysis to:
Cristina (Maria) Bacchus, Project Manager
Email: maria.bacchus@bureauveritas.com
Phone# (905)817-5763

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C4K6529
Report Date: 2024/07/19

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: RF

## RESULTS OF ANALYSES OF AIR

| **Bureau Veritas ID** | | ZQT903 | |
|---|---|---|---|
| **Sampling Date** | | 2024/07/02 | |
| **COC Number** | | NA | |
| | **UNITS** | **JULY 1 SUMMA BELL TOWERS/SX1640** | **QC Batch** |
| **Volatile Organics** | | | |
| Pressure on Receipt | psig | (-0.3) | 9505409 |
| QC Batch = Quality Control Batch | | | |



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## VOLATILE ORGANICS BY GC/MS (AIR)

| Bureau Veritas ID | | ZQT903 | | | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2024/07/02 | | | | |
| COC Number | | NA | | | | |
| | UNITS | JULY 1 SUMMA BELL TOWERS/SX1640 | RDL | ug/m3 | DL (ug/m3) | QC Batch |
| **Volatile Organics** | | | | | | |
| 2-Propanone | ppbv | 2.50 | 0.15 | 5.94 | 0.356 | 9505408 |
| Dichlorodifluoromethane (FREON 12) | ppbv | 0.49 | 0.20 | 2.44 | 0.989 | 9505405 |
| 1,2-Dichlorotetrafluoroethane | ppbv | <0.17 | 0.17 | <1.19 | 1.19 | 9505405 |
| Chloromethane | ppbv | 0.47 | 0.30 | 0.971 | 0.620 | 9505405 |
| Vinyl Chloride | ppbv | <0.020 | 0.020 | <0.0511 | 0.0511 | 9505408 |
| Chloroethane | ppbv | <0.30 | 0.30 | <0.792 | 0.792 | 9505405 |
| 1,3-Butadiene | ppbv | <0.50 | 0.50 | <1.11 | 1.11 | 9505405 |
| Trichlorofluoromethane (FREON 11) | ppbv | 0.26 | 0.20 | 1.47 | 1.12 | 9505405 |
| Ethanol (ethyl alcohol) | ppbv | <1.0 | 1.0 | <1.88 | 1.88 | 9505405 |
| Trichlorotrifluoroethane | ppbv | <0.15 | 0.15 | <1.15 | 1.15 | 9505405 |
| 2-propanol | ppbv | <1.0 | 1.0 | <2.46 | 2.46 | 9505405 |
| Methyl Ethyl Ketone (2-Butanone) | ppbv | 0.15 | 0.10 | 0.453 | 0.295 | 9505408 |
| Methyl Isobutyl Ketone | ppbv | <0.10 | 0.10 | <0.410 | 0.410 | 9505408 |
| Methyl Butyl Ketone (2-Hexanone) | ppbv | <1.0 | 1.0 | <4.10 | 4.10 | 9505405 |
| Methyl t-butyl ether (MTBE) | ppbv | <0.10 | 0.10 | <0.361 | 0.361 | 9505408 |
| Ethyl Acetate | ppbv | <1.0 | 1.0 | <3.60 | 3.60 | 9505405 |
| 1,1-Dichloroethylene | ppbv | <0.050 | 0.050 | <0.198 | 0.198 | 9505408 |
| cis-1,2-Dichloroethylene | ppbv | <0.050 | 0.050 | <0.198 | 0.198 | 9505408 |
| trans-1,2-Dichloroethylene | ppbv | <0.10 | 0.10 | <0.396 | 0.396 | 9505408 |
| Methylene Chloride(Dichloromethane) | ppbv | 0.112 | 0.050 | 0.389 | 0.174 | 9505408 |
| Chloroform | ppbv | <0.040 | 0.040 | <0.195 | 0.195 | 9505408 |
| Carbon Tetrachloride | ppbv | 0.089 | 0.050 | 0.559 | 0.315 | 9505408 |
| 1,1-Dichloroethane | ppbv | <0.050 | 0.050 | <0.202 | 0.202 | 9505408 |
| 1,2-Dichloroethane | ppbv | 0.016 | 0.010 | 0.0655 | 0.0405 | 9505408 |
| Ethylene Dibromide | ppbv | <0.010 | 0.010 | <0.0768 | 0.0768 | 9505408 |
| 1,1,1-Trichloroethane | ppbv | <0.050 | 0.050 | <0.273 | 0.273 | 9505408 |
| 1,1,2-Trichloroethane | ppbv | <0.012 | 0.012 | <0.0655 | 0.0655 | 9505408 |
| 1,1,2,2-Tetrachloroethane | ppbv | <0.0027 | 0.0027 | <0.0185 | 0.0185 | 9505408 |
| cis-1,3-Dichloropropene | ppbv | <0.050 | 0.050 | <0.227 | 0.227 | 9505408 |
| trans-1,3-Dichloropropene | ppbv | <0.050 | 0.050 | <0.227 | 0.227 | 9505408 |
| 1,2-Dichloropropane | ppbv | <0.050 | 0.050 | <0.231 | 0.231 | 9505408 |
| Bromomethane | ppbv | <0.050 | 0.050 | <0.194 | 0.194 | 9505408 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## VOLATILE ORGANICS BY GC/MS (AIR)

| Bureau Veritas ID | | ZQT903 | | | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2024/07/02 | | | | |
| COC Number | | NA | | | | |
| | UNITS | JULY 1 SUMMA BELL TOWERS/SX1640 | RDL | ug/m3 | DL (ug/m3) | QC Batch |
| Bromoform | ppbv | <0.10 | 0.10 | <1.03 | 1.03 | 9505408 |
| Bromodichloromethane | ppbv | <0.20 | 0.20 | <1.34 | 1.34 | 9505405 |
| Dibromochloromethane | ppbv | <0.20 | 0.20 | <1.70 | 1.70 | 9505405 |
| Trichloroethylene | ppbv | <0.050 | 0.050 | <0.269 | 0.269 | 9505408 |
| Tetrachloroethylene | ppbv | <0.050 | 0.050 | <0.339 | 0.339 | 9505408 |
| Benzene | ppbv | <0.050 | 0.050 | <0.160 | 0.160 | 9505408 |
| Toluene | ppbv | <0.050 | 0.050 | <0.188 | 0.188 | 9505408 |
| Ethylbenzene | ppbv | <0.050 | 0.050 | <0.217 | 0.217 | 9505408 |
| p+m-Xylene | ppbv | <0.10 | 0.10 | <0.434 | 0.434 | 9505408 |
| o-Xylene | ppbv | <0.050 | 0.050 | <0.217 | 0.217 | 9505408 |
| Styrene | ppbv | <0.050 | 0.050 | <0.213 | 0.213 | 9505408 |
| 4-ethyltoluene | ppbv | <0.50 | 0.50 | <2.46 | 2.46 | 9505405 |
| 1,3,5-Trimethylbenzene | ppbv | <0.50 | 0.50 | <2.45 | 2.45 | 9505405 |
| 1,2,4-Trimethylbenzene | ppbv | <0.50 | 0.50 | <2.45 | 2.45 | 9505405 |
| Chlorobenzene | ppbv | <0.050 | 0.050 | <0.230 | 0.230 | 9505408 |
| Benzyl chloride | ppbv | <0.50 | 0.50 | <2.59 | 2.59 | 9505405 |
| 1,3-Dichlorobenzene | ppbv | <0.40 | 0.40 | <2.40 | 2.40 | 9505405 |
| 1,4-Dichlorobenzene | ppbv | <0.050 | 0.050 | <0.301 | 0.301 | 9505408 |
| 1,2-Dichlorobenzene | ppbv | <0.050 | 0.050 | <0.301 | 0.301 | 9505408 |
| 1,2,4-Trichlorobenzene | ppbv | <0.10 | 0.10 | <0.742 | 0.742 | 9505408 |
| Hexachlorobutadiene | ppbv | <0.0047 | 0.0047 | <0.0501 | 0.0501 | 9505408 |
| Hexane | ppbv | <0.10 | 0.10 | <0.352 | 0.352 | 9505408 |
| Heptane | ppbv | <0.30 | 0.30 | <1.23 | 1.23 | 9505405 |
| Cyclohexane | ppbv | <0.20 | 0.20 | <0.688 | 0.688 | 9505405 |
| Tetrahydrofuran | ppbv | <0.40 | 0.40 | <1.18 | 1.18 | 9505405 |
| 1,4-Dioxane | ppbv | <1.0 | 1.0 | <3.60 | 3.60 | 9505405 |
| Naphthalene | ppbv | <0.10 | 0.10 | <0.524 | 0.524 | 9505408 |
| Total Xylenes | ppbv | <0.15 | 0.15 | <0.651 | 0.651 | 9505408 |
| 1,1,1,2-Tetrachloroethane | ppbv | <0.021 | 0.021 | <0.144 | 0.144 | 9505408 |
| Vinyl Bromide | ppbv | <0.20 | 0.20 | <0.875 | 0.875 | 9505405 |
| Propene | ppbv | <0.50 | 0.50 | <0.861 | 0.861 | 9505405 |
| 2,2,4-Trimethylpentane | ppbv | <0.20 | 0.20 | <0.934 | 0.934 | 9505405 |
| Carbon Disulfide | ppbv | <0.50 | 0.50 | <1.56 | 1.56 | 9505405 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

## VOLATILE ORGANICS BY GC/MS (AIR)

| **Bureau Veritas ID** | | ZQT903 | | | | |
|---|---|---|---|---|---|---|
| **Sampling Date** | | 2024/07/02 | | | | |
| **COC Number** | | NA | | | | |
| | **UNITS** | **JULY 1 SUMMA BELL TOWERS/SX1640** | **RDL** | **ug/m3** | **DL (ug/m3)** | **QC Batch** |
| Vinyl Acetate | ppbv | <0.20 | 0.20 | <0.704 | 0.704 | 9505405 |
| **Surrogate Recovery (%)** | | | | | | |
| Bromochloromethane | % | 103 | | N/A | N/A | 9505408 |
| D5-Chlorobenzene | % | 94 | | N/A | N/A | 9505408 |
| Difluorobenzene | % | 96 | | N/A | N/A | 9505408 |
| Bromochloromethane | % | 103 | | N/A | N/A | 9505405 |
| D5-Chlorobenzene | % | 94 | | N/A | N/A | 9505405 |
| Difluorobenzene | % | 96 | | N/A | N/A | 9505405 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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## GENERAL COMMENTS

**Results relate only to the items tested.**



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## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9505405 | XGA | Spiked Blank | Bromochloromethane | 2024/07/10 | | 101 | % | 60 - 140 |
| | | | D5-Chlorobenzene | 2024/07/10 | | 101 | % | 60 - 140 |
| | | | Difluorobenzene | 2024/07/10 | | 102 | % | 60 - 140 |
| | | | Dichlorodifluoromethane (FREON 12) | 2024/07/10 | | 86 | % | 70 - 130 |
| | | | 1,2-Dichlorotetrafluoroethane | 2024/07/10 | | 89 | % | 70 - 130 |
| | | | Chloromethane | 2024/07/10 | | 89 | % | 70 - 130 |
| | | | Chloroethane | 2024/07/10 | | 93 | % | 70 - 130 |
| | | | 1,3-Butadiene | 2024/07/10 | | 90 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2024/07/10 | | 89 | % | 70 - 130 |
| | | | Ethanol (ethyl alcohol) | 2024/07/10 | | 106 | % | 70 - 130 |
| | | | Trichlorotrifluoroethane | 2024/07/10 | | 93 | % | 70 - 130 |
| | | | 2-propanol | 2024/07/10 | | 97 | % | 70 - 130 |
| | | | Methyl Butyl Ketone (2-Hexanone) | 2024/07/10 | | 106 | % | 70 - 130 |
| | | | Ethyl Acetate | 2024/07/10 | | 100 | % | 70 - 130 |
| | | | Bromodichloromethane | 2024/07/10 | | 92 | % | 70 - 130 |
| | | | Dibromochloromethane | 2024/07/10 | | 98 | % | 70 - 130 |
| | | | 4-ethyltoluene | 2024/07/10 | | 107 | % | 70 - 130 |
| | | | 1,3,5-Trimethylbenzene | 2024/07/10 | | 101 | % | 70 - 130 |
| | | | 1,2,4-Trimethylbenzene | 2024/07/10 | | 103 | % | 70 - 130 |
| | | | Benzyl chloride | 2024/07/10 | | 115 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2024/07/10 | | 101 | % | 70 - 130 |
| | | | Heptane | 2024/07/10 | | 98 | % | 70 - 130 |
| | | | Cyclohexane | 2024/07/10 | | 100 | % | 70 - 130 |
| | | | Tetrahydrofuran | 2024/07/10 | | 102 | % | 70 - 130 |
| | | | 1,4-Dioxane | 2024/07/10 | | 102 | % | 70 - 130 |
| | | | Vinyl Bromide | 2024/07/10 | | 87 | % | 70 - 130 |
| | | | Propene | 2024/07/10 | | 94 | % | 70 - 130 |
| | | | 2,2,4-Trimethylpentane | 2024/07/10 | | 97 | % | 70 - 130 |
| | | | Carbon Disulfide | 2024/07/10 | | 70 | % | 70 - 130 |
| | | | Vinyl Acetate | 2024/07/10 | | 102 | % | 70 - 130 |
| 9505405 | XGA | Method Blank | Bromochloromethane | 2024/07/10 | | 106 | % | 60 - 140 |
| | | | D5-Chlorobenzene | 2024/07/10 | | 88 | % | 60 - 140 |
| | | | Difluorobenzene | 2024/07/10 | | 95 | % | 60 - 140 |
| | | | Dichlorodifluoromethane (FREON 12) | 2024/07/10 | <0.20 | | ppbv | |
| | | | 1,2-Dichlorotetrafluoroethane | 2024/07/10 | <0.17 | | ppbv | |
| | | | Chloromethane | 2024/07/10 | <0.30 | | ppbv | |
| | | | Chloroethane | 2024/07/10 | <0.30 | | ppbv | |
| | | | 1,3-Butadiene | 2024/07/10 | <0.50 | | ppbv | |
| | | | Trichlorofluoromethane (FREON 11) | 2024/07/10 | <0.20 | | ppbv | |
| | | | Ethanol (ethyl alcohol) | 2024/07/10 | <1.0 | | ppbv | |
| | | | Trichlorotrifluoroethane | 2024/07/10 | <0.15 | | ppbv | |
| | | | 2-propanol | 2024/07/10 | <1.0 | | ppbv | |
| | | | Methyl Butyl Ketone (2-Hexanone) | 2024/07/10 | <1.0 | | ppbv | |
| | | | Ethyl Acetate | 2024/07/10 | <1.0 | | ppbv | |
| | | | Bromodichloromethane | 2024/07/10 | <0.20 | | ppbv | |
| | | | Dibromochloromethane | 2024/07/10 | <0.20 | | ppbv | |
| | | | 4-ethyltoluene | 2024/07/10 | <0.50 | | ppbv | |
| | | | 1,3,5-Trimethylbenzene | 2024/07/10 | <0.50 | | ppbv | |
| | | | 1,2,4-Trimethylbenzene | 2024/07/10 | <0.50 | | ppbv | |
| | | | Benzyl chloride | 2024/07/10 | <0.50 | | ppbv | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | 1,3-Dichlorobenzene | 2024/07/10 | <0.40 | | ppbv | |
| | | | Heptane | 2024/07/10 | <0.30 | | ppbv | |
| | | | Cyclohexane | 2024/07/10 | <0.20 | | ppbv | |
| | | | Tetrahydrofuran | 2024/07/10 | <0.40 | | ppbv | |
| | | | 1,4-Dioxane | 2024/07/10 | <1.0 | | ppbv | |
| | | | Vinyl Bromide | 2024/07/10 | <0.20 | | ppbv | |
| | | | Propene | 2024/07/10 | <0.50 | | ppbv | |
| | | | 2,2,4-Trimethylpentane | 2024/07/10 | <0.20 | | ppbv | |
| | | | Carbon Disulfide | 2024/07/10 | <0.50 | | ppbv | |
| | | | Vinyl Acetate | 2024/07/10 | <0.20 | | ppbv | |
| 9505408 | XGA | Spiked Blank | 2-Propanone | 2024/07/10 | | 103 | % | 70 - 130 |
| | | | Bromochloromethane | 2024/07/10 | | 101 | % | 60 - 140 |
| | | | D5-Chlorobenzene | 2024/07/10 | | 101 | % | 60 - 140 |
| | | | Difluorobenzene | 2024/07/10 | | 102 | % | 60 - 140 |
| | | | Vinyl Chloride | 2024/07/10 | | 90 | % | 70 - 130 |
| | | | Methyl Ethyl Ketone (2-Butanone) | 2024/07/10 | | 102 | % | 70 - 130 |
| | | | Methyl Isobutyl Ketone | 2024/07/10 | | 95 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2024/07/10 | | 101 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2024/07/10 | | 97 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2024/07/10 | | 95 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2024/07/10 | | 97 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2024/07/10 | | 73 | % | 70 - 130 |
| | | | Chloroform | 2024/07/10 | | 95 | % | 70 - 130 |
| | | | Carbon Tetrachloride | 2024/07/10 | | 92 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2024/07/10 | | 90 | % | 70 - 130 |
| | | | 1,2-Dichloroethane | 2024/07/10 | | 95 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2024/07/10 | | 97 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2024/07/10 | | 93 | % | 70 - 130 |
| | | | 1,1,2-Trichloroethane | 2024/07/10 | | 95 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2024/07/10 | | 93 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2024/07/10 | | 97 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2024/07/10 | | 103 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2024/07/10 | | 93 | % | 70 - 130 |
| | | | Bromomethane | 2024/07/10 | | 91 | % | 70 - 130 |
| | | | Bromoform | 2024/07/10 | | 103 | % | 70 - 130 |
| | | | Trichloroethylene | 2024/07/10 | | 98 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2024/07/10 | | 100 | % | 70 - 130 |
| | | | Benzene | 2024/07/10 | | 97 | % | 70 - 130 |
| | | | Toluene | 2024/07/10 | | 96 | % | 70 - 130 |
| | | | Ethylbenzene | 2024/07/10 | | 97 | % | 70 - 130 |
| | | | p+m-Xylene | 2024/07/10 | | 98 | % | 70 - 130 |
| | | | o-Xylene | 2024/07/10 | | 94 | % | 70 - 130 |
| | | | Styrene | 2024/07/10 | | 104 | % | 70 - 130 |
| | | | Chlorobenzene | 2024/07/10 | | 98 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2024/07/10 | | 105 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2024/07/10 | | 101 | % | 70 - 130 |
| | | | 1,2,4-Trichlorobenzene | 2024/07/10 | | 110 | % | 70 - 130 |
| | | | Hexachlorobutadiene | 2024/07/10 | | 96 | % | 70 - 130 |
| | | | Hexane | 2024/07/10 | | 98 | % | 70 - 130 |
| | | | Naphthalene | 2024/07/10 | | 123 | % | 70 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Xylenes | 2024/07/10 | | 97 | % | 70 - 130 |
| | | | 1,1,1,2-Tetrachloroethane | 2024/07/10 | | 98 | % | 70 - 130 |
| 9505408 | XGA | Method Blank | 2-Propanone | 2024/07/10 | <0.15 | | ppbv | |
| | | | Bromochloromethane | 2024/07/10 | | 106 | % | 60 - 140 |
| | | | D5-Chlorobenzene | 2024/07/10 | | 88 | % | 60 - 140 |
| | | | Difluorobenzene | 2024/07/10 | | 95 | % | 60 - 140 |
| | | | Vinyl Chloride | 2024/07/10 | <0.020 | | ppbv | |
| | | | Methyl Ethyl Ketone (2-Butanone) | 2024/07/10 | <0.10 | | ppbv | |
| | | | Methyl Isobutyl Ketone | 2024/07/10 | <0.10 | | ppbv | |
| | | | Methyl t-butyl ether (MTBE) | 2024/07/10 | <0.10 | | ppbv | |
| | | | 1,1-Dichloroethylene | 2024/07/10 | <0.050 | | ppbv | |
| | | | cis-1,2-Dichloroethylene | 2024/07/10 | <0.050 | | ppbv | |
| | | | trans-1,2-Dichloroethylene | 2024/07/10 | <0.10 | | ppbv | |
| | | | Methylene Chloride(Dichloromethane) | 2024/07/10 | <0.050 | | ppbv | |
| | | | Chloroform | 2024/07/10 | <0.040 | | ppbv | |
| | | | Carbon Tetrachloride | 2024/07/10 | <0.050 | | ppbv | |
| | | | 1,1-Dichloroethane | 2024/07/10 | <0.050 | | ppbv | |
| | | | 1,2-Dichloroethane | 2024/07/10 | <0.010 | | ppbv | |
| | | | Ethylene Dibromide | 2024/07/10 | <0.010 | | ppbv | |
| | | | 1,1,1-Trichloroethane | 2024/07/10 | <0.050 | | ppbv | |
| | | | 1,1,2-Trichloroethane | 2024/07/10 | <0.012 | | ppbv | |
| | | | 1,1,2,2-Tetrachloroethane | 2024/07/10 | <0.0027 | | ppbv | |
| | | | cis-1,3-Dichloropropene | 2024/07/10 | <0.050 | | ppbv | |
| | | | trans-1,3-Dichloropropene | 2024/07/10 | <0.050 | | ppbv | |
| | | | 1,2-Dichloropropane | 2024/07/10 | <0.050 | | ppbv | |
| | | | Bromomethane | 2024/07/10 | <0.050 | | ppbv | |
| | | | Bromoform | 2024/07/10 | <0.10 | | ppbv | |
| | | | Trichloroethylene | 2024/07/10 | <0.050 | | ppbv | |
| | | | Tetrachloroethylene | 2024/07/10 | <0.050 | | ppbv | |
| | | | Benzene | 2024/07/10 | <0.050 | | ppbv | |
| | | | Toluene | 2024/07/10 | <0.050 | | ppbv | |
| | | | Ethylbenzene | 2024/07/10 | <0.050 | | ppbv | |
| | | | p+m-Xylene | 2024/07/10 | <0.10 | | ppbv | |
| | | | o-Xylene | 2024/07/10 | <0.050 | | ppbv | |
| | | | Styrene | 2024/07/10 | <0.050 | | ppbv | |
| | | | Chlorobenzene | 2024/07/10 | <0.050 | | ppbv | |
| | | | 1,4-Dichlorobenzene | 2024/07/10 | <0.050 | | ppbv | |
| | | | 1,2-Dichlorobenzene | 2024/07/10 | <0.050 | | ppbv | |
| | | | 1,2,4-Trichlorobenzene | 2024/07/10 | <0.10 | | ppbv | |
| | | | Hexachlorobutadiene | 2024/07/10 | <0.0047 | | ppbv | |
| | | | Hexane | 2024/07/10 | <0.10 | | ppbv | |
| | | | Naphthalene | 2024/07/10 | <0.10 | | ppbv | |
| | | | Total Xylenes | 2024/07/10 | <0.15 | | ppbv | |
| | | | 1,1,1,2-Tetrachloroethane | 2024/07/10 | <0.021 | | ppbv | |
| 9505408 | XGA | RPD | 2-Propanone | 2024/07/10 | NC | | % | N/A |
| | | | Vinyl Chloride | 2024/07/10 | NC | | % | 25 |
| | | | Methyl Ethyl Ketone (2-Butanone) | 2024/07/10 | 0.28 | | % | 25 |
| | | | Methyl Isobutyl Ketone | 2024/07/10 | 1.0 | | % | 25 |
| | | | Methyl t-butyl ether (MTBE) | 2024/07/10 | NC | | % | 25 |
| | | | 1,1-Dichloroethylene | 2024/07/10 | NC | | % | 25 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | cis-1,2-Dichloroethylene | 2024/07/10 | NC | | % | 25 |
| | | | trans-1,2-Dichloroethylene | 2024/07/10 | NC | | % | 25 |
| | | | Methylene Chloride(Dichloromethane) | 2024/07/10 | 7.2 | | % | 25 |
| | | | Chloroform | 2024/07/10 | 0.25 | | % | 25 |
| | | | Carbon Tetrachloride | 2024/07/10 | 0.20 | | % | 25 |
| | | | 1,1-Dichloroethane | 2024/07/10 | NC | | % | 25 |
| | | | 1,2-Dichloroethane | 2024/07/10 | 3.7 | | % | 25 |
| | | | Ethylene Dibromide | 2024/07/10 | NC | | % | 25 |
| | | | 1,1,1-Trichloroethane | 2024/07/10 | NC | | % | 25 |
| | | | 1,1,2-Trichloroethane | 2024/07/10 | NC | | % | 25 |
| | | | 1,1,2,2-Tetrachloroethane | 2024/07/10 | NC | | % | 25 |
| | | | cis-1,3-Dichloropropene | 2024/07/10 | NC | | % | 25 |
| | | | trans-1,3-Dichloropropene | 2024/07/10 | NC | | % | 25 |
| | | | 1,2-Dichloropropane | 2024/07/10 | NC | | % | 25 |
| | | | Bromomethane | 2024/07/10 | NC | | % | 25 |
| | | | Bromoform | 2024/07/10 | NC | | % | 25 |
| | | | Trichloroethylene | 2024/07/10 | NC | | % | 25 |
| | | | Tetrachloroethylene | 2024/07/10 | NC | | % | 25 |
| | | | Benzene | 2024/07/10 | 2.0 | | % | 25 |
| | | | Toluene | 2024/07/10 | 1.1 | | % | 25 |
| | | | Ethylbenzene | 2024/07/10 | 1.5 | | % | 25 |
| | | | p+m-Xylene | 2024/07/10 | 1.2 | | % | 25 |
| | | | o-Xylene | 2024/07/10 | 0.89 | | % | 25 |
| | | | Styrene | 2024/07/10 | 0.76 | | % | 25 |
| | | | Chlorobenzene | 2024/07/10 | NC | | % | 25 |
| | | | 1,4-Dichlorobenzene | 2024/07/10 | NC | | % | 25 |
| | | | 1,2-Dichlorobenzene | 2024/07/10 | NC | | % | 25 |
| | | | 1,2,4-Trichlorobenzene | 2024/07/10 | NC | | % | 25 |
| | | | Hexachlorobutadiene | 2024/07/10 | NC | | % | 25 |
| | | | Hexane | 2024/07/10 | 4.8 | | % | 25 |
| | | | Naphthalene | 2024/07/10 | NC | | % | 25 |
| | | | Total Xylenes | 2024/07/10 | 1.1 | | % | 25 |
| | | | 1,1,1,2-Tetrachloroethane | 2024/07/10 | NC | | % | 25 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



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Bureau Veritas Job #: C4K6529
Report Date: 2024/07/19

WSP Canada Inc.
Client Project #: CA0031272.9242
Site Location: KINROSS PROJECT
Your P.O. #: P104312CA001
Sampler Initials: RF

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Anke Macfarlane, Laboratory Manager, VOC

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Your P.O. #: C026300307
Site Location: KINROSS RED LAKE TD PROJECT

**Attention: Ryan Fletcher**

WSP E&I Canada Limited
160 TRADERS BLVD. EAST
Units 2 & 3
MISSISSAUGA, ON
CANADA L4Z 3K7

**Report Date: 2022/12/01**
Report #: R3271631
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C292171**
**Received: 2022/11/22, 12:30**

Sample Matrix: Air
# Samples Received: 4

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| VOC by Thermal Desorption Diffusive Tube | 4 | 2022/11/23 | 2022/11/30 | PTC SOP-00128 | EPA 325B |

This report shall not be reproduced except in full, without the written approval of the laboratory.
Results relate only to the items tested.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Belma Elefante
Customer Service Associate
01 Dec 2022 09:34:30

Please direct all questions regarding this Certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

==========

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C292171
Report Date: 2022/12/01

WSP E&I Canada Limited
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: JM, MR

## VOLATILE ORGANICS BY GC-MS (AIR)

| Bureau Veritas ID | | BHM907 | BHM908 | BHM936 | BHM937 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2022/10/01 00:00 | 2022/10/01 | 2022/11/01 00:00 | 2022/11/01 | | |
| | UNITS | TEARDROP OCTOBER | BLANK OCTOBER | TEARDROP NOVEMBER | BLANK NOVEMBER | RDL | QC Batch |
| **Passive Monitoring** | | | | | | | |
| Air Benzene | ug/m3 | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | A807104 |
| Air Toluene | ug/m3 | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | A807104 |
| Air Ethylbenzene | ug/m3 | <0.50 | <0.50 | 1.6 | <0.50 | 0.50 | A807104 |
| Air m & p-Xylene | ug/m3 | <2.5 | <2.5 | 3.4 | <2.5 | 2.5 | A807104 |
| Air o-Xylene | ug/m3 | <0.60 | <0.60 | <0.60 | <0.60 | 0.60 | A807104 |
| Air 1,3-Butadiene | ug/m3 | <6.0 | <6.0 | <6.0 | <6.0 | 6.0 | A807104 |
| Air Total Retainable VOCs | ug/m3 | 15 | <11 | 11 | <11 | 11 | A807104 |
| RDL = Reportable Detection Limit | | | | | | | |



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## GENERAL COMMENTS

Sample BHM907 [TEARDROP OCTOBER] : Tube passed holding time.--YL6 20221130

Sample BHM908 [BLANK OCTOBER] : Tube passed holding time.--YL6 20221130

**Results relate only to the items tested.**



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C292171
Report Date: 2022/12/01

WSP E&I Canada Limited
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: JM, MR

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| A807104 | XSZ | Method Blank | Air Benzene | | <0.50 | | ug/m3 | |
| | | | Air Toluene | | <0.50 | | ug/m3 | |
| | | | Air Ethylbenzene | | <0.50 | | ug/m3 | |
| | | | Air m & p-Xylene | | <2.5 | | ug/m3 | |
| | | | Air o-Xylene | | <0.60 | | ug/m3 | |
| | | | Air 1,3-Butadiene | | <6.0 | | ug/m3 | |

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C292171
Report Date: 2022/12/01

WSP E&I Canada Limited
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: JM, MR

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Yang Liu

Yang Liu, Analyst II

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

6744 50 Street NW
Edmonton, AB, T6B 3M9
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: 1-780-378-8500
Fax:

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 19 Young Street
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening | PM10 | Silica | VOC | Dustfall | $NO_2$ | $SO_2$ | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VOC Teardrop November 1 - 14 | | | 14-Nov | | | | | X | | | | | | | | | |
| VOC Blank 02 | | | 14-Nov | | | | | X | | | | | | | | | |
| VOC Teardrop October 1 - 14 | | | 14-Oct | | | | | X | | | | | | | | | |
| VOC Blank 01 | | | 14-Oct | | | | | X | | | | | | | | | |
| October Teardrop SO2 | | | 01-Nov | | | | | | | | X | | | | | | |
| October Tote SO2 | | | 01-Nov | | | | | | | | X | | | | | | |
| October SO2 Blank | | | 01-Nov | | | | | | | | X | | | | | | |
| October Teardrop NO2 | | | 01-Nov | | | | | | | X | | | | | | | |
| October Tote NO2 | | | 01-Nov | | | | | | | X | | | | | | | |
| October NO2 Blank | | | 01-Nov | | | | | | | X | | | | | | | |
| | | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com***

Client Signature:
Affiliation:
Date/Time:

Received by:
Affiliation:
Date/Time:

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Your P.O. #: C026300307
Site Location: KINROSS RED LAKE TD PROJECT

**Attention: Ryan Fletcher**

WSP E&I Canada Limited
160 TRADERS BLVD. EAST
Units 2 & 3
MISSISSAUGA, ON
CANADA L4Z 3K7

**Report Date: 2023/01/05**
Report #: R3285062
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C2A0780**
**Received: 2022/12/23, 07:30**

Sample Matrix: Air
# Samples Received: 2

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| VOC by Thermal Desorption Diffusive Tube | 2 | 2022/12/27 | 2022/12/28 | PTC SOP-00128 | EPA 325B |

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* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Belma Elefante
Customer Service Associate
05 Jan 2023 10:04:46

Please direct all questions regarding this Certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

==========

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Bureau Veritas Job #: C2A0780
Report Date: 2023/01/05

WSP E&I Canada Limited
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: JM, MR

## VOLATILE ORGANICS BY GC-MS (AIR)

| Bureau Veritas ID | | BJP875 | BJP876 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2022/12/01 00:00 | | | |
| | UNITS | TEARDROP DECEMBER 1-14 | BLANK DECEMBER | RDL | QC Batch |
| **Passive Monitoring** | | | | | |
| Air Benzene | ug/m3 | <0.50 | <0.50 | 0.50 | A841034 |
| Air Toluene | ug/m3 | <0.50 | <0.50 | 0.50 | A841034 |
| Air Ethylbenzene | ug/m3 | 19 | <0.50 | 0.50 | A841034 |
| Air m & p-Xylene | ug/m3 | 32 | <2.5 | 2.5 | A841034 |
| Air o-Xylene | ug/m3 | 6.2 | <0.60 | 0.60 | A841034 |
| Air 1,3-Butadiene | ug/m3 | <6.0 | <6.0 | 6.0 | A841034 |
| Air Total Retainable VOCs | ug/m3 | 89 | <11 | 11 | A841034 |
| RDL = Reportable Detection Limit | | | | | |



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C2A0780
Report Date: 2023/01/05

WSP E&I Canada Limited
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: JM, MR

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| A841034 | XSZ | Method Blank | Air Benzene | | <0.50 | | ug/m3 | |
| | | | Air Toluene | | <0.50 | | ug/m3 | |
| | | | Air Ethylbenzene | | <0.50 | | ug/m3 | |
| | | | Air m & p-Xylene | | <2.5 | | ug/m3 | |
| | | | Air o-Xylene | | <0.60 | | ug/m3 | |
| | | | Air 1,3-Butadiene | | <6.0 | | ug/m3 | |

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C2A0780
Report Date: 2023/01/05

WSP E&I Canada Limited
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: JM, MR

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Yang Liu

Yang Liu, Analyst II

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Edmonton, AB, T6B 3M9
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: 1-780-378-8500
Fax:

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 19 Young Street
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening | PM10 | Silica | VOC | Dustfall | $NO_2$ | $SO_2$ | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VOC Teardrop December 1-14 | | | 15-Dec | | | | | X | | | | | | | | | |
| VOC Blank | | | 15-Dec | | | | | X | | | | | | | | | |
| Tote November SO2 Dupe | | | 1-Dec | | | | | | | | X | | | | | | |
| Tote November SO2 | | | 1-Dec | | | | | | | | X | | | | | | |
| November SO2 Blank | | | 1-Dec | | | | | | | | X | | | | | | |
| Tote November NO2 | | | 1-Dec | | | | | | | | X | | | | | | |
| Teardrop November SO2 | | | 1-Dec | | | | | | | X | | | | | | | |
| Teardrop November NO2 | | | 1-Dec | | | | | | | X | | | | | | | |
| Teardrop November NO2 Dupe | | | 1-Dec | | | | | | | X | | | | | | | |
| November NO2 Blank | | | 1-Dec | | | | | | | X | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

*Please note if these samples are "Industrial Hygiene" samples*
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com***

Client Signature:
Affiliation:
Date/Time:

Received by:
Affiliation:
Date/Time:

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AB 22-12-23
4 SO2
4 NO2
C07130

Your P.O. #: C026300307
Your Project #: 2022/07/01 - 2022/07/14
Site Location: KINROSS RED LAKE TD PROJECT

**Attention: Ryan Fletcher**

Wood Environment & Infrastructure Solutions Canada Limited
160 TRADERS BLVD. EAST
Units 2 & 3
MISSISSAUGA, ON
CANADA L4Z 3K7

**Report Date: 2022/08/31**
Report #: R3224321
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C262737**
**Received: 2022/08/22, 07:30**

Sample Matrix: Air
# Samples Received: 2

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| VOC by Thermal Desorption Diffusive Tube | 2 | 2022/08/23 | 2022/08/24 | PTC SOP-00128 | EPA 325B |

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* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Belma Elefante
Customer Service Associate
31 Aug 2022 08:29:05

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500
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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C262737
Report Date: 2022/08/31

Wood Environment & Infrastructure Solutions Canada Limited
Client Project #: 2022/07/01 - 2022/07/14
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: N/A

## VOLATILE ORGANICS BY GC-MS (AIR)

| **Bureau Veritas ID** | | BAB991 | BAB992 | | |
|---|---|---|---|---|---|
| **Sampling Date** | | 2022/07/01 00:00 | 2022/07/01 00:00 | | |
| | **UNITS** | **STATION 3** | **BLANK** | **RDL** | **QC Batch** |
| **Passive Monitoring** | | | | | |
| Air Benzene | ug/m3 | 1.1 | <0.50 | 0.50 | A690363 |
| Air Toluene | ug/m3 | 41 | <0.50 | 0.50 | A690363 |
| Air Ethylbenzene | ug/m3 | 74 | <0.50 | 0.50 | A690363 |
| Air m & p-Xylene | ug/m3 | 160 | <2.5 | 2.5 | A690363 |
| Air o-Xylene | ug/m3 | 28 | <0.60 | 0.60 | A690363 |
| Air 1,3-Butadiene | ug/m3 | <6.0 | <6.0 | 6.0 | A690363 |
| Air Total Retainable VOCs | ug/m3 | NA | NA | 11 | A690363 |
| RDL = Reportable Detection Limit | | | | | |



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C262737
Report Date: 2022/08/31

Wood Environment & Infrastructure Solutions Canada Limited
Client Project #: 2022/07/01 - 2022/07/14
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: N/A

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| A690363 | SDK | Method Blank | Air Benzene | 2022/08/23 | <0.50 | | ug/m3 | |
| | | | Air Toluene | 2022/08/23 | <0.50 | | ug/m3 | |
| | | | Air Ethylbenzene | 2022/08/23 | <0.50 | | ug/m3 | |
| | | | Air m & p-Xylene | 2022/08/23 | <2.5 | | ug/m3 | |
| | | | Air o-Xylene | 2022/08/23 | <0.60 | | ug/m3 | |
| | | | Air 1,3-Butadiene | 2022/08/23 | <6.0 | | ug/m3 | |
| | | | Air Total Retainable VOCs | 2022/08/23 | NA, RDL=11 | | ug/m3 | |

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C262737
Report Date: 2022/08/31

Wood Environment & Infrastructure Solutions Canada Limited
Client Project #: 2022/07/01 - 2022/07/14
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: N/A

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Yang Liu, Analyst II

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BUREAU VERITAS

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Toll Free: 1-800-668-0639
Phone: (780) 378-8500
Fax:

# CHAIN OF CUSTODY FORM - AIR

CAM FCD-01302 /3

Page ____ of ____

**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM + CR

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening | PM10 | Silica | VOC | Dustfall | $NO_2$ | $SO_2$ | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | |
| $NO_2$ Blank | | | Jul 1 - Aug 1 | | | | | | | X | | | | | | | | |
| $NO_2$ - Station 3 July | | | Jul 1 - Aug 1 | | | | | | | X | | | | | | | | |
| $SO_2$ Blank | | | Jul 1 - Aug 1 | | | | | | | | X | | | | | | | |
| $SO_2$ - Station 3 July | | | Jul 1 - Aug 1 | | | | | | | | X | | | | | | | |
| $SO_2$ July Duplicate | | | Jul 1 - Aug 1 | | | | | | | | X | | | | | | | |
| VOC Station 3 July | | | Jul 1 - July 14 | | | | | X | | | | | | | | | | |
| VOC Blank | | | | | | | | X | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com***

Client Signature: Jacob McFee
Affiliation: Kinross
Date/Time: Aug 2/2022 14:00

Received by:
Affiliation:
Date/Time:

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22-08-22 JB 2 Hebes @ 5°C
3 $SO_2$ 2 $NO_2$

Your P.O. #: C026300307
Your Project #: 2022/08/01 - 2022/08/15
Site Location: KINROSS RED LAKE TD PROJECT

**Attention: AIR GROUP**

WSP E&I Canada Limited
160 TRADERS BLVD. EAST
Units 2 & 3
MISSISSAUGA, ON
CANADA L4Z 3K7

**Report Date: 2022/10/13**
Report #: R3247143
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C276752**
**Received: 2022/10/03, 10:00**

Sample Matrix: Air
# Samples Received: 2

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| VOC by Thermal Desorption Diffusive Tube | 2 | 2022/10/06 | N/A | PTC SOP-00128 | EPA 325B |

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* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Belma Elefante
Customer Service Associate
13 Oct 2022 11:37:24

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500
==========
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For Service Group specific validation please refer to the Validation Signature Page.



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

## VOLATILE ORGANICS BY GC-MS (AIR)

| Bureau Veritas ID | | BDK592 | BDK593 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2022/08/01 00:00 | | | |
| | UNITS | TEARDROP AUGUST | BLANK | RDL | QC Batch |
| **Passive Monitoring** | | | | | |
| Air Benzene | ug/m3 | <0.50 | <0.50 | 0.50 | A746356 |
| Air Toluene | ug/m3 | <0.50 | <0.50 | 0.50 | A746356 |
| Air Ethylbenzene | ug/m3 | <0.50 | <0.50 | 0.50 | A746356 |
| Air m & p-Xylene | ug/m3 | <2.5 | <2.5 | 2.5 | A746356 |
| Air o-Xylene | ug/m3 | <0.60 | <0.60 | 0.60 | A746356 |
| Air 1,3-Butadiene | ug/m3 | <6.0 | <6.0 | 6.0 | A746356 |
| Air Total Retainable VOCs | ug/m3 | NA | NA | 11 | A746356 |
| RDL = Reportable Detection Limit | | | | | |



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C276752
Report Date: 2022/10/13

WSP E&I Canada Limited
Client Project #: 2022/08/01 - 2022/08/15
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| A746356 | SDK | Method Blank | Air Benzene | | <0.50 | | ug/m3 | |
| | | | Air Toluene | | <0.50 | | ug/m3 | |
| | | | Air Ethylbenzene | | <0.50 | | ug/m3 | |
| | | | Air m & p-Xylene | | <2.5 | | ug/m3 | |
| | | | Air o-Xylene | | <0.60 | | ug/m3 | |
| | | | Air 1,3-Butadiene | | <6.0 | | ug/m3 | |
| | | | Air Total Retainable VOCs | | NA, RDL=11 | | ug/m3 | |

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C276752
Report Date: 2022/10/13

WSP E&I Canada Limited
Client Project #: 2022/08/01 - 2022/08/15
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: JM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Yang Liu, Analyst II

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



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CAM FCD-01302 /3

BUREAU VERITAS

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Edmonton, AB, T6B 3M9
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Toll Free: 1-800-668-0639
Phone: 1-780-378-8500
Fax:

# CHAIN OF CUSTODY FORM - AIR

Page ____ of ____

**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:

**SECTION**

Sampled by: JM/CR/AM

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening | PM10 | Silica | VOC | Dustfall | $NO_2$ | $SO_2$ | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $NO_2$ Blank | | | Aug 2 - Sep 1 | | | | | | | X | | | | | | | |
| $NO_2$ - Teardrop August | | | Aug 2 - Sep 1 | | | | | | | X | | | | | | | |
| $NO_2$ - Teardrop August Duplicate | | | Aug 2 - Sep 1 | | | | | | | X | | | | | | | |
| $SO_2$ - Teardrop August | | | Aug 2 - Sep 1 | | | | | | | | X | | | | | | |
| $SO_2$ Blank | | | Aug 2 - Sep 1 | | | | | | | | X | | | | | | |
| VOC Teardrop August | | | Aug 1 - Aug 15 | | | | | X | | | | | | | | | |
| VOC Blank | | | Aug 1 - Aug 15 | | | | | X | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
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**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com***

Client Signature:
Affiliation:
Date/Time:

Received by:
Affiliation:
Date/Time:

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$ 22-10-03
2 tubes @ 15°C
2 SO2 2 NO2 (IAQ)

Your P.O. #: C026300307
Site Location: KINROSS RED LAKE TD PROJECT

**Attention: Ryan Fletcher**

WSP E&I Canada Limited
160 TRADERS BLVD. EAST
Units 2 & 3
MISSISSAUGA, ON
CANADA L4Z 3K7

**Report Date: 2022/10/25**
Report #: R3253652
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C279685**
**Received: 2022/10/11, 08:30**

Sample Matrix: Air
# Samples Received: 2

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| VOC by Thermal Desorption Diffusive Tube | 2 | 2022/10/17 | 2022/10/25 | PTC SOP-00128 | EPA 325B |

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Results relate only to the items tested.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Belma Elefante
Customer Service Associate
25 Oct 2022 13:47:08

Please direct all questions regarding this Certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

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Bureau Veritas Job #: C279685
Report Date: 2022/10/25

WSP E&I Canada Limited
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: JM, MR

## VOLATILE ORGANICS BY GC-MS (AIR)

| Bureau Veritas ID | | BEF918 | BEF919 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2022/09/01 00:00 | | | |
| | UNITS | TEARDROP SEPTEMBER | 2 | RDL | QC Batch |
| **Passive Monitoring** | | | | | |
| Air Benzene | ug/m3 | <0.50 | NA | 0.50 | A759215 |
| Air Toluene | ug/m3 | <0.50 | NA | 0.50 | A759215 |
| Air Ethylbenzene | ug/m3 | <0.50 | NA | 0.50 | A759215 |
| Air m & p-Xylene | ug/m3 | <2.5 | NA | 2.5 | A759215 |
| Air o-Xylene | ug/m3 | <0.60 | NA | 0.60 | A759215 |
| Air 1,3-Butadiene | ug/m3 | <6.0 | NA | 6.0 | A759215 |
| Air Total Retainable VOCs | ug/m3 | NA | NA | 11 | A759215 |
| RDL = Reportable Detection Limit | | | | | |



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

## GENERAL COMMENTS

Sample BEF919 [ 2] : Sample Loss in Lab - No Charge

**Results relate only to the items tested.**



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C279685
Report Date: 2022/10/25

WSP E&I Canada Limited
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: JM, MR

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| A759215 | SDK | Method Blank | Air Benzene | | <0.50 | | ug/m3 | |
| | | | Air Toluene | | <0.50 | | ug/m3 | |
| | | | Air Ethylbenzene | | <0.50 | | ug/m3 | |
| | | | Air m & p-Xylene | | <2.5 | | ug/m3 | |
| | | | Air o-Xylene | | <0.60 | | ug/m3 | |
| | | | Air 1,3-Butadiene | | <6.0 | | ug/m3 | |
| | | | Air Total Retainable VOCs | | <11 | | ug/m3 | |

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



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Bureau Veritas Job #: C279685
Report Date: 2022/10/25

WSP E&I Canada Limited
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: JM, MR

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Carmen Toker, CT, Manager Air Laboratory Services

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Edmonton AB, CA, T6B 3M9
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Toll Free: 1-800-668-0639
Phone: (780) 378-8500
Fax: (780) 378-8699

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening | PM10 | Silica | VOC | Dustfall | $NO_2$ | $SO_2$ | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| September $NO_2$ Blank | | | Sep 1 - Oct 1 | | | | | | | X | | | | | | | |
| $NO_2$ - Teardrop September | | | Sep 1 - Oct 1 | | | | | | | X | | | | | | | |
| $NO_2$ - Teardrop September Duplicate | | | Sep 1 - Oct 1 | | | | | | | X | | | | | | | |
| $SO_2$ - Teardrop September | | | Sep 1 - Oct 1 | | | | | | | | X | | | | | | |
| September $SO_2$ Blank | | | Sep 1 - Oct 1 | | | | | | | | X | | | | | | |
| VOC Teardrop September | | | Sep 1 - Sep 14 | | | | | X | | | | | | | | | |
| VOC Blank | | | Sep 1 - Sep 14 | | | | | X | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
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**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project (Red Lake)
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com***

Client Signature:
Affiliation:
Date/Time:

Received by:
Affiliation:
Date/Time:

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Your P.O. #: C026300307
Site Location: KINROSS RED LAKE TD PROJECT

**Attention: Ryan Fletcher**

WSP E&I Canada Limited
160 TRADERS BLVD. EAST
Units 2 & 3
MISSISSAUGA, ON
CANADA L4Z 3K7

**Report Date: 2023/04/24**
Report #: R3326756
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C325725**
**Received: 2023/04/13, 10:30**

Sample Matrix: Air
# Samples Received: 4

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| VOC by Thermal Desorption Diffusive Tube | 4 | 2023/04/17 | 2023/04/21 | PTC SOP-00128 | EPA 325B |

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* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Belma Elefante
Customer Service Associate
24 Apr 2023 10:22:44

Please direct all questions regarding this Certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

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Bureau Veritas Job #: C325725
Report Date: 2023/04/24

WSP E&I Canada Limited
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: JM, MR

## VOLATILE ORGANICS BY GC-MS (AIR)

| Bureau Veritas ID | | BOV062 | BOV063 | BOV064 | BOV065 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/03/01 00:00 | 2023/03/01 00:00 | 2023/01/16 00:00 | 2023/01/16 00:00 | | |
| | UNITS | TEARDROP MARCH | BLANK MARCH | TEAR JANUARY | BLANK JANUARY | RDL | QC Batch |
| **Passive Monitoring** | | | | | | | |
| Air Benzene | ug/m3 | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | A936722 |
| Air Toluene | ug/m3 | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | A936722 |
| Air Ethylbenzene | ug/m3 | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | A936722 |
| Air m & p-Xylene | ug/m3 | <2.5 | <2.5 | <2.5 | <2.5 | 2.5 | A936722 |
| Air o-Xylene | ug/m3 | <0.60 | <0.60 | <0.60 | <0.60 | 0.60 | A936722 |
| Air 1,3-Butadiene | ug/m3 | <6.0 | <6.0 | <6.0 | <6.0 | 6.0 | A936722 |
| Air Total Retainable VOCs | ug/m3 | 16 | <11 | <11 | <11 | 11 | A936722 |
| RDL = Reportable Detection Limit | | | | | | | |



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C325725
Report Date: 2023/04/24

WSP E&I Canada Limited
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: JM, MR

## GENERAL COMMENTS

Sample BOV062 [TEARDROP MARCH] : Sample was sent out on January 18th, didn't start collecting until March 1st. --YL6 20230421

Sample BOV064 [TEAR JANUARY] : Sampling end date was January 16th but sample was received on April 13th. --YL6 20230421

Sample BOV065 [BLANK JANUARY] : Sampling end date was January 16th but sample was received on April 13th. --YL6 20230421

**Results relate only to the items tested.**



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C325725
Report Date: 2023/04/24

WSP E&I Canada Limited
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: JM, MR

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| A936722 | XSZ | Method Blank | Air Benzene | | <0.50 | | ug/m3 | |
| | | | Air Toluene | | <0.50 | | ug/m3 | |
| | | | Air Ethylbenzene | | <0.50 | | ug/m3 | |
| | | | Air m & p-Xylene | | <2.5 | | ug/m3 | |
| | | | Air o-Xylene | | <0.60 | | ug/m3 | |
| | | | Air 1,3-Butadiene | | <6.0 | | ug/m3 | |
| | | | Air Total Retainable VOCs | | NA, RDL=11 | | ug/m3 | |

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C325725
Report Date: 2023/04/24

WSP E&I Canada Limited
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: JM, MR

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Yang Liu

Yang Liu, Analyst II

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Edmonton, AB, T6B 3M9
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Toll Free: 1-800-668-0639
Phone: 1-780-378-8500
Fax:

# CHAIN OF CUSTODY FORM - AIR

CAM FCD-01302 /3

Page ____ of ____

**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM/CR/AM

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening | PM10 | Silica | VOC | Dustfall | $NO_2$ | $SO_2$ | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VOC Teardrop March | | | Mar 1 - 15 | 15-Mar | | | | X | | | | | | | | | |
| VOC Blank March | | | Mar 1 - 15 | 15-Mar | | | | X | | | | | | | | | |
| VOC Tear Jan | | | Jan 2 - 16 | 16-Jan | | | | X | | | | | | | | | |
| VOC Blank Jan | | | Jan 2 - 16 | 16-Jan | | | | X | | | | | | | | | |
| VOC Teardrop Feb | | | Feb 1 - 15 | 15-Feb | | | | X | | | | | | | | | |
| VOC Teardrop Feb | | | Feb 1 - 15 | 15-Feb | | | | X | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
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**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com***

Client Signature:
Affiliation:
Date/Time:

Received by:
Affiliation:
Date/Time:

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Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100.
Site#: 2023/11/01 - 2023/11/15
Site Location: KINROSS RED LAKE TD PROJECT

**Attention: Ryan Fletcher**

WSP E&I Canada Limited
160 TRADERS BLVD. EAST
Units 2 & 3
MISSISSAUGA, ON
CANADA L4Z 3K7

**Report Date: 2024/01/16**
Report #: R3452029
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3A3875**
**Received: 2023/12/21, 08:00**

Sample Matrix: Air
# Samples Received: 2

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| VOC by Thermal Desorption Diffusive Tube | 2 | 2023/12/21 | 2024/01/11 | PTC SOP-00128 | EPA 325B |

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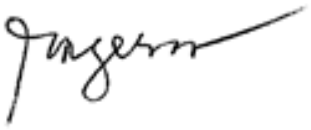
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key



Rowena Geron
Customer Service Associate
16 Jan 2024 12:01:37

Please direct all questions regarding this Certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C3A3875
Report Date: 2024/01/16

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: N/A

## VOLATILE ORGANICS BY GC-MS (AIR)

| Bureau Veritas ID | | CGY864 | CGY865 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2023/11/01 00:00 | 2023/11/01 00:00 | | |
| | UNITS | NOV BELL TOWERS VOC | NOV BELL TOWERS VOC BLANK | RDL | QC Batch |
| **Passive Monitoring** | | | | | |
| Air Benzene | ug/m3 | <0.50 | <0.50 | 0.50 | B249142 |
| Air Toluene | ug/m3 | <0.50 | <0.50 | 0.50 | B249142 |
| Air Ethylbenzene | ug/m3 | <0.50 | <0.50 | 0.50 | B249142 |
| Air m & p-Xylene | ug/m3 | <2.5 | <2.5 | 2.5 | B249142 |
| Air o-Xylene | ug/m3 | <0.60 | <0.60 | 0.60 | B249142 |
| Air 1,3-Butadiene | ug/m3 | <6.0 | <6.0 | 6.0 | B249142 |
| Air Total Retainable VOCs | ug/m3 | <11 | <11 | 11 | B249142 |
| RDL = Reportable Detection Limit | | | | | |



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C3A3875
Report Date: 2024/01/16

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: N/A

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C3A3875
Report Date: 2024/01/16

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: N/A

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| B249142 | XSZ | Method Blank | Air Benzene | | <0.50 | | ug/m3 | |
| | | | Air Toluene | | <0.50 | | ug/m3 | |
| | | | Air Ethylbenzene | | <0.50 | | ug/m3 | |
| | | | Air m & p-Xylene | | <2.5 | | ug/m3 | |
| | | | Air o-Xylene | | <0.60 | | ug/m3 | |
| | | | Air 1,3-Butadiene | | <6.0 | | ug/m3 | |

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



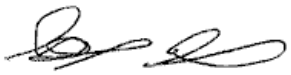
Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C3A3875
Report Date: 2024/01/16

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: N/A

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Steven Gloux, Senior Analyst

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

CAM FCD-01302 /3

BUREAU VERITAS

6744 50 Street NW
Edmonton, AB, T6B 3M9
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: 1-780-378-8500
Fax:

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / WSP E&I Canada
Project Manager: Ryan Fletcher
e-mail: See comments below for email list
Address: 19 Young Street, Red Lake, ON, CA, P0V 2M0
Phone: 1 647-283-4638 Fax:
Sampled by: EM/CB/AP/JM

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening | PM10 | Silica | VOC | Dustfall | $NO_2$ | $SO_2$ | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| November Bell Towers VOC | | | Nov 1-15 | | | | | X | | | | | | | | | |
| November Bell Towers VOC Blank | | | Nov 1-15 | | | | | X | | | | | | | | | |
| December Bell Towers VOC | | | Dec 1-15 | | | | | X | | | | | | | | | |
| December Bell Towers VOC Blank | | | Dec 1-15 | | | | | X | | | | | | | | | |
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**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2303.2023D.100
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; ryan.fletcher@wsp.com; airgroup@woodplc.com; emily.meek@kinross.com; curtis.bloemberg@kinross.com; aaron.peloquin@kinross.com***

Client Signature: [signature]
Affiliation: Kinross
Date/Time: 12/18

Received by:
Affiliation:
Date/Time:

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions*

DB 23-12-21
4th COC
08:00

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100.
Site#: 2023/12/01 - 2023/12/15
Site Location: KINROSS RED LAKE TD PROJECT

**Attention: Ryan Fletcher**

WSP E&I Canada Limited
160 TRADERS BLVD. EAST
Units 2 & 3
MISSISSAUGA, ON
CANADA L4Z 3K7

**Report Date: 2024/01/12**
Report #: R3451001
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C3A3879**
**Received: 2023/12/21, 08:00**

Sample Matrix: Air
# Samples Received: 2

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| VOC by Thermal Desorption Diffusive Tube | 2 | 2023/12/21 | 2024/01/11 | PTC SOP-00128 | EPA 325B |

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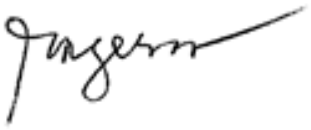
Results relate only to the items tested.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key



Rowena Geron
Customer Service Associate
12 Jan 2024 15:43:50

Please direct all questions regarding this Certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

==========

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C3A3879
Report Date: 2024/01/12

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: N/A

## VOLATILE ORGANICS BY GC-MS (AIR)

| Bureau Veritas ID | | CGY892 | CGY893 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2023/12/01 00:00 | 2023/12/01 00:00 | | |
| | UNITS | DEC BELL TOWERS VOC | DEC BELL TOWERS VOC BLANK | RDL | QC Batch |
| **Passive Monitoring** | | | | | |
| Air Benzene | ug/m3 | 0.98 | <0.50 | 0.50 | B249142 |
| Air Toluene | ug/m3 | 1.2 | <0.50 | 0.50 | B249142 |
| Air Ethylbenzene | ug/m3 | 0.87 | <0.50 | 0.50 | B249142 |
| Air m & p-Xylene | ug/m3 | <2.5 | <2.5 | 2.5 | B249142 |
| Air o-Xylene | ug/m3 | <0.60 | <0.60 | 0.60 | B249142 |
| Air 1,3-Butadiene | ug/m3 | <6.0 | <6.0 | 6.0 | B249142 |
| Air Total Retainable VOCs | ug/m3 | 19 | <11 | 11 | B249142 |
| RDL = Reportable Detection Limit | | | | | |



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C3A3879
Report Date: 2024/01/12

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: N/A

## GENERAL COMMENTS

Sample CGY892 [DEC BELL TOWERS VOC] : Sampling tube exposed after conditioning expired. Results may be biased high. 2024/01/12 SDK

**Results relate only to the items tested.**



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C3A3879
Report Date: 2024/01/12

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: N/A

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| B249142 | XSZ | Method Blank | Air Benzene | | <0.50 | | ug/m3 | |
| | | | Air Toluene | | <0.50 | | ug/m3 | |
| | | | Air Ethylbenzene | | <0.50 | | ug/m3 | |
| | | | Air m & p-Xylene | | <2.5 | | ug/m3 | |
| | | | Air o-Xylene | | <0.60 | | ug/m3 | |
| | | | Air 1,3-Butadiene | | <6.0 | | ug/m3 | |

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



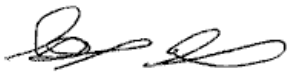
Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C3A3879
Report Date: 2024/01/12

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: N/A

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Steven Gloux, Senior Analyst

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

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BUREAU VERITAS

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Edmonton, AB, T6B 3M9
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Toll Free: 1-800-668-0639
Phone: 1-780-378-8500
Fax:

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / WSP E&I Canada
Project Manager: Ryan Fletcher
e-mail: See comments below for email list
Address: 19 Young Street, Red Lake, ON, CA, P0V 2M0
Phone: 1 647-283-4638 Fax:
Sampled by: EM/CB/AP/JM

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening | PM10 | Silica | VOC | Dustfall | $NO_2$ | $SO_2$ | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| November Bell Towers VOC | | | Nov 1-15 | | | | | X | | | | | | | | | |
| November Bell Towers VOC Blank | | | Nov 1-15 | | | | | X | | | | | | | | | |
| December Bell Towers VOC | | | Dec 1-15 | | | | | X | | | | | | | | | |
| December Bell Towers VOC Blank | | | Dec 1-15 | | | | | X | | | | | | | | | |
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**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2303.2023D.100
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; ryan.fletcher@wsp.com; airgroup@woodplc.com; emily.meek@kinross.com; curtis.bloemberg@kinross.com; aaron.peloquin@kinross.com***

Client Signature: [signature]
Affiliation: Kinross
Date/Time: 12/18

Received by:
Affiliation:
Date/Time:

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions*

DB 23-12-21
4th COC
08:00

Your P.O. #: C026300307
Site Location: KINROSS RED LAKE TD PROJECT

**Attention: Ryan Fletcher**

WSP E&I Canada Limited
160 TRADERS BLVD. EAST
Units 2 & 3
MISSISSAUGA, ON
CANADA L4Z 3K7

**Report Date: 2023/06/07**
Report #: R3345484
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C338263**
**Received: 2023/05/30, 07:45**

Sample Matrix: Air
# Samples Received: 4

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| VOC by Thermal Desorption Diffusive Tube | 4 | 2023/05/31 | 2023/06/07 | PTC SOP-00128 | EPA 325B |

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Results relate only to the items tested.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Belma Elefante
Customer Service Associate
08 Jun 2023 09:50:12

Please direct all questions regarding this Certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

==========

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Bureau Veritas Job #: C338263
Report Date: 2023/06/07

WSP E&I Canada Limited
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: JCA

## VOLATILE ORGANICS BY GC-MS (AIR)

| Bureau Veritas ID | | BRH683 | BRH684 | BRH685 | BRH686 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2023/05/01 00:00 | 2023/05/01 00:00 | 2023/04/01 00:00 | 2023/04/01 00:00 | | |
| | UNITS | TEARDROP MAY | FIELD BLANK MAY | TEARDROP APRIL | FIELD BLANK APRIL | RDL | QC Batch |
| **Passive Monitoring** | | | | | | | |
| Air Benzene | ug/m3 | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | A978320 |
| Air Toluene | ug/m3 | 9.5 | <0.50 | 1.7 | <0.50 | 0.50 | A978320 |
| Air Ethylbenzene | ug/m3 | 1.4 | <0.50 | <0.50 | <0.50 | 0.50 | A978320 |
| Air m & p-Xylene | ug/m3 | 12 | <2.5 | <2.5 | <2.5 | 2.5 | A978320 |
| Air o-Xylene | ug/m3 | 1.5 | <0.60 | <0.60 | <0.60 | 0.60 | A978320 |
| Air 1,3-Butadiene | ug/m3 | <6.0 | <6.0 | <6.0 | <6.0 | 6.0 | A978320 |
| Air Total Retainable VOCs | ug/m3 | 760 | <11 | <11 | <11 | 11 | A978320 |
| RDL = Reportable Detection Limit | | | | | | | |



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C338263
Report Date: 2023/06/07

WSP E&I Canada Limited
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: JCA

## GENERAL COMMENTS

Sample BRH683 [TEARDROP MAY] : Tube was sent out on Feb 15th. It is recommended to start sampling within two weeks after receiving. --YL6 20230531

The cap for non-sampling end was removed. --YL6 20230531

Sample BRH684 [FIELD BLANK MAY] : Tube was sent out on Feb 15th. It is recommended to start sampling within two weeks after receiving. --YL6 20230531

Sample BRH685 [TEARDROP APRIL] : Tube was deployed between April 1~15. Lab didn't receive the tube until May 30th. It is recommended to test the tube within 1 month after collection period. --YL6 20230531

Sample BRH686 [FIELD BLANK APRIL] : Tube was deployed between April 1~15. Lab didn't receive the tube until May 30th. It is recommended to test the tube within 1 month after collection period. --YL6 20230531

**Results relate only to the items tested.**



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C338263
Report Date: 2023/06/07

WSP E&I Canada Limited
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: JCA

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| A978320 | XSZ | Method Blank | Air Benzene | | <0.50 | | ug/m3 | |
| | | | Air Toluene | | <0.50 | | ug/m3 | |
| | | | Air Ethylbenzene | | <0.50 | | ug/m3 | |
| | | | Air m & p-Xylene | | <2.5 | | ug/m3 | |
| | | | Air o-Xylene | | <0.60 | | ug/m3 | |
| | | | Air 1,3-Butadiene | | <6.0 | | ug/m3 | |

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C338263
Report Date: 2023/06/07

WSP E&I Canada Limited
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: JCA

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Yang Liu

Yang Liu, Analyst II

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

CAM FCD-01302 /3

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Edmonton, AB, T6B 3M9
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: 1-780-378-8500
Fax:

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road

**SECTION**

Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM/CR/AM

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Du | PM | Sil ica | VOC | Dus tfa ll | $NO_2$ | $SO_2$ | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | VOC | | | | | | | | | | |
| May 1-15 Field Blank | | | May 1-15 | | | | | X | | | | | | | | | | |
| May 1-15 Teardrop VOC | | | May 1-15 | | | | | X | | | | | | | | | | |
| April 1-15 VOC Teardrop | | | April 1-15 | | | | | X | | | | | | | | | | |
| April 1-15 Field Blank | | | April 1-15 | | | | | X | | | | | | | | | | |
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**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; emily.meek@kinross.com; curtis.bloemberg@kinross.com; aaron.peloquin@kinross.com; airgroup@woodplc.com***

Client Signature:
Affiliation:
Date/Time:

Received by:
Affiliation:
Date/Time:

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions*

4 x tubes

REÇU / RECEIVED
30 -05- 2023
7:45

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE TD PROJECT

**Attention: Ryan Fletcher**

WSP E&I Canada Limited
160 TRADERS BLVD. EAST
Units 2 & 3
MISSISSAUGA, ON
CANADA L4Z 3K7

**Report Date: 2023/07/20**
Report #: R3367920
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C351545**
**Received: 2023/07/10, 10:00**

Sample Matrix: Air
# Samples Received: 2

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| VOC by Thermal Desorption Diffusive Tube | 2 | 2023/07/11 | 2023/07/18 | PTC SOP-00128 | EPA 325B |

This report shall not be reproduced except in full, without the written approval of the laboratory.
Results relate only to the items tested.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Belma Elefante
Customer Service Associate
20 Jul 2023 10:27:50

Please direct all questions regarding this Certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

==========

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Bureau Veritas Job #: C351545
Report Date: 2023/07/20

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: JCA

## VOLATILE ORGANICS BY GC-MS (AIR)

| Bureau Veritas ID | | BUF651 | BUF652 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2023/06/03 00:00 | 2023/06/03 00:00 | | |
| | UNITS | TEARDROP JUNE | FIELD BLANK JUNE | RDL | QC Batch |
| **Passive Monitoring** | | | | | |
| Air Benzene | ug/m3 | <0.50 | <0.50 | 0.50 | B029214 |
| Air Toluene | ug/m3 | <0.50 | <0.50 | 0.50 | B029214 |
| Air Ethylbenzene | ug/m3 | <0.50 | <0.50 | 0.50 | B029214 |
| Air m & p-Xylene | ug/m3 | <2.5 | <2.5 | 2.5 | B029214 |
| Air o-Xylene | ug/m3 | <0.60 | <0.60 | 0.60 | B029214 |
| Air 1,3-Butadiene | ug/m3 | <6.0 | <6.0 | 6.0 | B029214 |
| Air Total Retainable VOCs | ug/m3 | <11 | <11 | 11 | B029214 |
| RDL = Reportable Detection Limit | | | | | |



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C351545
Report Date: 2023/07/20

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: JCA

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C351545
Report Date: 2023/07/20

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: JCA

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| B029214 | XSZ | Method Blank | Air Benzene | | <0.50 | | ug/m3 | |
| | | | Air Toluene | | <0.50 | | ug/m3 | |
| | | | Air Ethylbenzene | | <0.50 | | ug/m3 | |
| | | | Air m & p-Xylene | | <2.5 | | ug/m3 | |
| | | | Air o-Xylene | | <0.60 | | ug/m3 | |
| | | | Air 1,3-Butadiene | | <6.0 | | ug/m3 | |
| | | | Air Total Retainable VOCs | | NA, RDL=11 | | ug/m3 | |

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C351545
Report Date: 2023/07/20

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: JCA

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Steven Gloux, Senior Analyst

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

CAM FCD-01302 /3

6744 50 Street NW
Edmonton, AB, T6B 3M9
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM + CB + EM

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | VOC | NO2 | SO2 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Teardrop June VOC | | | June 3 - 17 | | X | | | | | | | | | | | | |
| June Blank VOC | | | June 3 - 17 | | X | | | | | | | | | | | | |
| NO2- Blank June | | | June 1 - July 1 | | | X | | | | | | | | | | | |
| SO2- Blank June | | | June 1 - July 1 | | | | X | | | | | | | | | | |
| SO2- Tote June | | | June 1 - July 1 | | | | X | | | | | | | | | | |
| NO2- Tote June | | | June 1 - July 1 | | | X | | | | | | | | | | | |
| NO2- Tote June Duplicate | | | June 1 - July 1 | | | X | | | | | | | | | | | |
| SO2- Teardrop June | | | June 1 - July 1 | | | | X | | | | | | | | | | |
| SO2- Teardrop June Duplicate | | | June 1 - July 1 | | | | X | | | | | | | | | | |
| NO2- Teardrop June | | | June 1 - July 1 | | | X | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2003.2023D.100
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Bel Elefante

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com; emily.meek@kinross.com; aaron.peloquin@kinross.com; curtis.bloemberg@kinross.com***

Client Signature: Jacob McFee
Affiliation: Kinross
Date/Time: July 4 2023

Received by:
Affiliation:
Date/Time:

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Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE TD PROJECT

**Attention: Ryan Fletcher**

WSP E&I Canada Limited
160 TRADERS BLVD. EAST
Units 2 & 3
MISSISSAUGA, ON
CANADA L4Z 3K7

**Report Date: 2023/09/20**
Report #: R3397787
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C371354**
**Received: 2023/09/08, 12:36**

Sample Matrix: Air
# Samples Received: 2

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| VOC by Thermal Desorption Diffusive Tube | 2 | 2023/09/12 | 2023/09/18 | PTC SOP-00128 | EPA 325B |

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Results relate only to the items tested.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Belma Elefante
Customer Service Associate
20 Sep 2023 09:19:43

Please direct all questions regarding this Certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

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Bureau Veritas Job #: C371354
Report Date: 2023/09/20

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: N/A

## VOLATILE ORGANICS BY GC-MS (AIR)

| Bureau Veritas ID | | BYR966 | BYR967 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2023/08/09 00:00 | | | |
| | UNITS | BELL TOWERS VOC AUG | BELL TOWERS VOC AUG BLANK | RDL | QC Batch |
| **Passive Monitoring** | | | | | |
| Air Benzene | ug/m3 | <0.50 | <0.50 | 0.50 | B105814 |
| Air Toluene | ug/m3 | <0.50 | <0.50 | 0.50 | B105814 |
| Air Ethylbenzene | ug/m3 | <0.50 | <0.50 | 0.50 | B105814 |
| Air m & p-Xylene | ug/m3 | <2.5 | <2.5 | 2.5 | B105814 |
| Air o-Xylene | ug/m3 | <0.60 | <0.60 | 0.60 | B105814 |
| Air 1,3-Butadiene | ug/m3 | <6.0 | <6.0 | 6.0 | B105814 |
| Air Total Retainable VOCs | ug/m3 | <11 | <11 | 11 | B105814 |
| RDL = Reportable Detection Limit | | | | | |



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C371354
Report Date: 2023/09/20

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: N/A

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| B105814 | XSZ | Method Blank | Air Benzene | | <0.50 | | ug/m3 | |
| | | | Air Toluene | | <0.50 | | ug/m3 | |
| | | | Air Ethylbenzene | | <0.50 | | ug/m3 | |
| | | | Air m & p-Xylene | | <2.5 | | ug/m3 | |
| | | | Air o-Xylene | | <0.60 | | ug/m3 | |
| | | | Air 1,3-Butadiene | | <6.0 | | ug/m3 | |
| | | | Air Total Retainable VOCs | | NA, RDL=11 | | ug/m3 | |

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C371354
Report Date: 2023/09/20

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: N/A

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Steven Gloux, Senior Analyst

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Branko Banjac, General Manager responsible for Alberta Petroleum laboratory operations.


Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

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BUREAU VERITAS

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Edmonton, AB, T6B 3M9
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: 1-780-378-8500
Fax:

# CHAIN OF CUSTODY FORM - AIR

Page ____ of ____

**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0
Phone: (807) 728-2185 Fax:
Sampled by: JM/CR/AM

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening | PM10 | Silica | VOC | Dustfall | $NO_2$ | $SO_2$ | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $NO_2$ Blank | | | Aug 1 - Sep 1 | | | | | | | X | | | | | | | |
| $NO_2$ - Teardrop August | | | Aug 1 - Sep 1 | | | | | | | X | | | | | | | |
| $NO_2$ - Tote August Duplicate | | | Aug 1 - Sep 1 | | | | | | | X | | | | | | | |
| $NO_2$ - Tote August | | | Aug 1 - Sep 1 | | | | | | | X | | | | | | | |
| $SO_2$ Blank | | | Aug 1 - Sep 1 | | | | | | | | X | | | | | | |
| $SO_2$ - Tote August | | | Aug 1 - Sep 1 | | | | | | | | X | | | | | | |
| $SO_2$ - Teardrop August Duplicate | | | Aug 1 - Sep 1 | | | | | | | | X | | | | | | |
| $SO_2$ - Teardrop August | | | Aug 1 - Sep 1 | | | | | | | | X | | | | | | |
| Bell Towers VOC | | | Aug 9 - Aug 24 | | | | | X | | | | | | | | | |
| Bell Towers VOC Blank | | | Aug 9 - Aug 24 | | | | | X | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com; emily.meek@kinross.com; curtis.bloemberg@kinross.com; aaron.peloquin@kinross.com***

Client Signature:
Affiliation:
Date/Time:

Received by:
Affiliation:
Date/Time:

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DB 23-09-05 08:00 4502 4502

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100.
Site#: 2023/09/06 - 2023/09/20
Site Location: KINROSS RED LAKE TD PROJECT

**Attention: Ryan Fletcher**

WSP E&I Canada Limited
160 TRADERS BLVD. EAST
Units 2 & 3
MISSISSAUGA, ON
CANADA L4Z 3K7

**Report Date: 2023/10/16**
Report #: R3410931
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C379822**
**Received: 2023/10/04, 10:00**

Sample Matrix: Air
# Samples Received: 2

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| VOC by Thermal Desorption Diffusive Tube | 2 | 2023/10/05 | 2023/10/16 | PTC SOP-00128 | EPA 325B |

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Results relate only to the items tested.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Belma Elefante
Customer Service Associate
16 Oct 2023 16:07:45

Please direct all questions regarding this Certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

==========

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C379822
Report Date: 2023/10/16

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: N/A

## VOLATILE ORGANICS BY GC-MS (AIR)

| Bureau Veritas ID | | CAY461 | CAY462 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2023/09/06 00:00 | 2023/09/06 00:00 | | |
| | UNITS | BELL TOWERS VOC | BELL TOWERS VOC BLANK | RDL | QC Batch |
| **Passive Monitoring** | | | | | |
| Air Benzene | ug/m3 | <0.50 | <0.50 | 0.50 | B141205 |
| Air Toluene | ug/m3 | <0.50 | <0.50 | 0.50 | B141205 |
| Air Ethylbenzene | ug/m3 | <0.50 | <0.50 | 0.50 | B141205 |
| Air m & p-Xylene | ug/m3 | <2.5 | <2.5 | 2.5 | B141205 |
| Air o-Xylene | ug/m3 | <0.60 | <0.60 | 0.60 | B141205 |
| Air 1,3-Butadiene | ug/m3 | <6.0 | <6.0 | 6.0 | B141205 |
| Air Total Retainable VOCs | ug/m3 | <11 | <11 | 11 | B141205 |
| RDL = Reportable Detection Limit | | | | | |



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C379822
Report Date: 2023/10/16

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: N/A

## GENERAL COMMENTS

Tubes expired Aug 13 but deployed Sep 6 - Sep 20. Results may be biased high. 2023/10/16 SDK

**Results relate only to the items tested.**



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C379822
Report Date: 2023/10/16

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: N/A

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| B141205 | XSZ | Method Blank | Air Benzene | | <0.50 | | ug/m3 | |
| | | | Air Toluene | | <0.50 | | ug/m3 | |
| | | | Air Ethylbenzene | | <0.50 | | ug/m3 | |
| | | | Air m & p-Xylene | | <2.5 | | ug/m3 | |
| | | | Air o-Xylene | | <0.60 | | ug/m3 | |
| | | | Air 1,3-Butadiene | | <6.0 | | ug/m3 | |

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



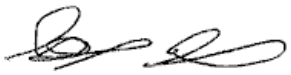
Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C379822
Report Date: 2023/10/16

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: N/A

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Steven Gloux, Senior Analyst

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

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Edmonton, AB, T6B 3M9
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: 1-780-378-8500
Fax:

# CHAIN OF CUSTODY FORM - AIR

Page ____ of ____

**CLIENT INFORMATION**

Company Name: Kinross / Wood
Project Manager: Jacob McFee
e-mail: Please see comments for email list
Address: 2 Industrial Park Road
Red Lake, ON, CA, P0V 2M0

**SECTION**

Phone: (807) 728-2185 Fax:

Sampled by: EM/CB/AP/JM

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening | PM10 | Silica | VOC | Dustfall | $NO_2$ | $SO_2$ | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bell Towers VOC | | | Sep 6 - Sep 20 | | | | | X | | | | | | | | |
| Bell Towers VOC Blank | | | Sep 6 - Sep 20 | | | | | X | | | | | | | | |
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**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #:
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; christopher.reid@kinross.com; ryan.fletcher@woodplc.com; airgroup@woodplc.com; emily.meek@kinross.com; curtis.bloemberg@kinross.com; aaron.peloquin@kinross.com***

Client Signature:
Affiliation:
Date/Time:

Received by:
Affiliation:
Date/Time:

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions*

also in this box is ~~1~~ empty cases ~~&~~ & 234004 2d @15C C10100 we no longer need

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100.
Site#: 2024/01/02-2024/01/16
Site Location: KINROSS RED LAKE TD PROJECT

**Attention: Ryan Fletcher**

WSP E&I Canada Limited
160 TRADERS BLVD. EAST
Units 2 & 3
MISSISSAUGA, ON
CANADA L4Z 3K7

**Report Date: 2024/02/20**
Report #: R3465079
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C407020**
**Received: 2024/02/01, 10:00**

Sample Matrix: Air
# Samples Received: 2

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| VOC by Thermal Desorption Diffusive Tube | 2 | 2024/02/05 | 2024/02/20 | PTC SOP-00128 | EPA 325B |

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Results relate only to the items tested.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Rowena Geron
Customer Service Associate
20 Feb 2024 12:52:48

Please direct all questions regarding this Certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

==========

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C407020
Report Date: 2024/02/20

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: N/A

## VOLATILE ORGANICS BY GC-MS (AIR)

| Bureau Veritas ID | | CIL070 | CIL071 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2024/01/02 11:30 | 2024/01/02 11:30 | | |
| | UNITS | JAN BELL TOWERS VOC | JAN BELL TOWERS VOC BLANK | RDL | QC Batch |
| **Passive Monitoring** | | | | | |
| Air Benzene | ug/m3 | <0.50 | <0.50 | 0.50 | B274205 |
| Air Toluene | ug/m3 | <0.50 | <0.50 | 0.50 | B274205 |
| Air Ethylbenzene | ug/m3 | <0.50 | <0.50 | 0.50 | B274205 |
| Air m & p-Xylene | ug/m3 | <2.5 | <2.5 | 2.5 | B274205 |
| Air o-Xylene | ug/m3 | <0.60 | <0.60 | 0.60 | B274205 |
| Air 1,3-Butadiene | ug/m3 | <6.0 | <6.0 | 6.0 | B274205 |
| Air Total Retainable VOCs | ug/m3 | <11 | <11 | 11 | B274205 |
| RDL = Reportable Detection Limit | | | | | |



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C407020
Report Date: 2024/02/20

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: N/A

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| B274205 | XSZ | Method Blank | Air Benzene | | <0.50 | | ug/m3 | |
| | | | Air Toluene | | <0.50 | | ug/m3 | |
| | | | Air Ethylbenzene | | <0.50 | | ug/m3 | |
| | | | Air m & p-Xylene | | <2.5 | | ug/m3 | |
| | | | Air o-Xylene | | <0.60 | | ug/m3 | |
| | | | Air 1,3-Butadiene | | <6.0 | | ug/m3 | |
| | | | Air Total Retainable VOCs | | <11 | | ug/m3 | |

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C407020
Report Date: 2024/02/20

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: N/A

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Steven Gloux, Senior Analyst

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

CAM FCD-01302 /3

6744 50 Street NW
Edmonton, AB, T6B 3M9
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: 1-780-378-8500
Fax:

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / WSP E&I Canada
Project Manager: Ryan Fletcher
e-mail: See comments below for email list
Address: 19 Young Street,
Red Lake, ON, CA, P0V 2M0
Phone: 1 647-283-4638 Fax:
Sampled by: JM

**SECTION**

ANALYSIS REQUESTED

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening | PM10 | Silica | VOC | Dustfall | $NO_2$ | $SO_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Bell Towers Jan 2 - 16 VOC | | | Jan 2 - Jan 16 | 11:30 | | | | X | | | |
| Bell Towers VOC BLANK | | | Jan 2 - Jan 16 | 11:30 | | | | X | | | |
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**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2303.2023D.100
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; ryan.fletcher@wsp.com; airgroup@woodplc.com; emily.meek@kinross.com; curtis.bloemberg@kinross.com; aaron.peloquin@kinross.com***

Client Signature: [signature]
Affiliation: Kinross
Date/Time: Jan 26 7:30

Received by:
Affiliation:
Date/Time:

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An empty VOC case is also being sent back. This is the December case (November and December samples were sent together).

NR 24-02-01 2 to @ 10 to C 15 C

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100.
Site#: 2024/02/01-2024/02/15
Site Location: KINROSS RED LAKE TD PROJECT

**Attention: Ryan Fletcher**

WSP E&I Canada Limited
160 TRADERS BLVD. EAST
Units 2 & 3
MISSISSAUGA, ON
CANADA L4Z 3K7

**Report Date: 2024/03/04**
Report #: R3470427
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C412333**
**Received: 2024/02/22, 08:00**

Sample Matrix: Air
# Samples Received: 2

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| VOC by Thermal Desorption Diffusive Tube | 2 | 2024/02/23 | N/A | PTC SOP-00128 | EPA 325B |

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Results relate only to the items tested.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Kristen Sywolos
Customer Service Supervisor/Oil & Gas Division
04 Mar 2024 14:44:34

Please direct all questions regarding this Certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C412333
Report Date: 2024/03/04

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: N/A

## VOLATILE ORGANICS BY GC-MS (AIR)

| Bureau Veritas ID | | CJP024 | CJP025 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2024/02/01 12:30 | 2024/02/01 00:00 | | |
| | UNITS | FEB BELL TOWERS VOC | FEB BELL TOWERS VOC BLANK | RDL | QC Batch |
| **Passive Monitoring** | | | | | |
| Air Benzene | ug/m3 | 0.57 | <0.50 | 0.50 | B295877 |
| Air Toluene | ug/m3 | <0.50 | <0.50 | 0.50 | B295877 |
| Air Ethylbenzene | ug/m3 | <0.50 | <0.50 | 0.50 | B295877 |
| Air m & p-Xylene | ug/m3 | <2.5 | <2.5 | 2.5 | B295877 |
| Air o-Xylene | ug/m3 | <0.60 | <0.60 | 0.60 | B295877 |
| Air 1,3-Butadiene | ug/m3 | <6.0 | <6.0 | 6.0 | B295877 |
| Air Total Retainable VOCs | ug/m3 | <11 | <11 | 11 | B295877 |
| RDL = Reportable Detection Limit | | | | | |



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C412333
Report Date: 2024/03/04

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: N/A

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| B295877 | XSZ | Method Blank | Air Benzene | | <0.50 | | ug/m3 | |
| | | | Air Toluene | | <0.50 | | ug/m3 | |
| | | | Air Ethylbenzene | | <0.50 | | ug/m3 | |
| | | | Air m & p-Xylene | | <2.5 | | ug/m3 | |
| | | | Air o-Xylene | | <0.60 | | ug/m3 | |
| | | | Air 1,3-Butadiene | | <6.0 | | ug/m3 | |
| | | | Air Total Retainable VOCs | | NA, RDL=11 | | ug/m3 | |

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C412333
Report Date: 2024/03/04

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: N/A

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Steven Gloux, Senior Analyst

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Edmonton, AB, T6B 3M9
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: 1-780-378-8500
Fax:

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / WSP E&I Canada
Project Manager: Ryan Fletcher
e-mail: See comments below for email list
Address: 19 Young Street,
Red Lake, ON, CA, P0V 2M0
Phone: 1 647-283-4638 Fax:
Sampled by: CB

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening | PM10 | Silica | VOC | Dustfall | $NO_2$ | $SO_2$ | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| February Bell Towers VOC | | | Feb 1 - Feb 14 | 12:30 | | | | X | | | | | | | | | |
| February Bell Towers VOC Blank | | | Feb 1 - Feb 14 | n/a | | | | X | | | | | | | | | |
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**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2303.2023D.100
Name: Kinross Project
PO #: C026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; ryan.fletcher@wsp.com; airgroup@woodplc.com; emily.meek@kinross.com; curtis.bloemberg@kinross.com; aaron.peloquin@kinross.com***

Client Signature: CB
Affiliation: Kinross
Date/Time: 15-Feb

Received by:
Affiliation:
Date/Time:

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DB 24-02-22
2 td @ 08:00
CJC

Your P.O. #: C026300307
Your Project #: OMEMA2303.2023D.100.
Site#: 2024/03/01-2024/03/16
Site Location: KINROSS RED LAKE TD PROJECT

**Attention: Ryan Fletcher**

WSP E&I Canada Limited
160 TRADERS BLVD. EAST
Units 2 & 3
MISSISSAUGA, ON
CANADA L4Z 3K7

**Report Date: 2024/04/04**
Report #: R3483305
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C420703**
**Received: 2024/03/25, 08:15**

Sample Matrix: Air
# Samples Received: 2

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| VOC by Thermal Desorption Diffusive Tube | 2 | 2024/03/26 | N/A | PTC SOP-00128 | EPA 325B |

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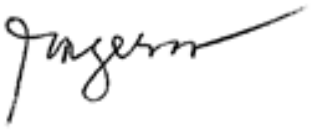
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key



Rowena Geron
Customer Service Associate
04 Apr 2024 07:52:15

Please direct all questions regarding this Certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: N/A

## VOLATILE ORGANICS BY GC-MS (AIR)

| Bureau Veritas ID | | CLF898 | CLF899 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2024/03/01 00:00 | 2024/03/01 00:00 | | |
| | UNITS | MAR BELL TOWERS VOC | MAR BELL TOWERS VOC BLANK | RDL | QC Batch |
| **Passive Monitoring** | | | | | |
| Air Benzene | ug/m3 | <0.50 | <0.50 | 0.50 | B323386 |
| Air Toluene | ug/m3 | <0.50 | <0.50 | 0.50 | B323386 |
| Air Ethylbenzene | ug/m3 | <0.50 | <0.50 | 0.50 | B323386 |
| Air m & p-Xylene | ug/m3 | <2.5 | <2.5 | 2.5 | B323386 |
| Air o-Xylene | ug/m3 | <0.60 | <0.60 | 0.60 | B323386 |
| Air 1,3-Butadiene | ug/m3 | <6.0 | <6.0 | 6.0 | B323386 |
| Air Total Retainable VOCs | ug/m3 | <11 | <11 | 11 | B323386 |
| RDL = Reportable Detection Limit | | | | | |


Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

## GENERAL COMMENTS

**Results relate only to the items tested.**



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C420703
Report Date: 2024/04/04

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: N/A

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| B323386 | XSZ | Method Blank | Air Benzene | | <0.50 | | ug/m3 | |
| | | | Air Toluene | | <0.50 | | ug/m3 | |
| | | | Air Ethylbenzene | | <0.50 | | ug/m3 | |
| | | | Air m & p-Xylene | | <2.5 | | ug/m3 | |
| | | | Air o-Xylene | | <0.60 | | ug/m3 | |
| | | | Air 1,3-Butadiene | | <6.0 | | ug/m3 | |

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C420703
Report Date: 2024/04/04

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100.
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: C026300307
Sampler Initials: N/A

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Steven Gloux, Senior Analyst

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

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6744 50 Street NW
Edmonton, AB, T6B 3M9
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: 1-780-378-8500
Fax:

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / WSP E&I Canada
Project Manager: Ryan Fletcher
e-mail: See comments below for email list
Address: 19 Young Street,
Red Lake, ON, CA, P0V 2M0
Phone: 1 647-283-4638 Fax:
Sampled by: CB

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening | PM10 | Silica | VOC | Dustfall | $NO_2$ | $SO_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| March Bell Towers VOC | N/A | N/A | 3/16/2024 | Mar 1- Mar 16 | | | | X | | | |
| March Bell Towers VOC Blank | N/A | N/A | 3/16/2024 | Mar 1- Mar 16 | | | | X | | | |
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**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2303.2023D.100
Name: Kinross Project
PO #: EICAC026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; ryan.fletcher@wsp.com; airgroup@woodplc.com; emily.meek@kinross.com; curtis.bloemberg@kinross.com; aaron.peloquin@kinross.com***

Client Signature: CB
Affiliation: Kinross
Date/Time: 20-Mar

Received by:
Affiliation:
Date/Time:

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DB 24-03-25
2 to
C08115

Your P.O. #: EICAC026300307
Your Project #: OMEMA2303.2023D.100
Site#: 2024/04/01-2024/04/15
Site Location: KINROSS RED LAKE TD PROJECT

**Attention: Ryan Fletcher**

WSP E&I Canada Limited
160 TRADERS BLVD. EAST
Units 2 & 3
MISSISSAUGA, ON
CANADA L4Z 3K7

**Report Date: 2024/05/06**
Report #: R3496059
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C427907**
**Received: 2024/04/25, 08:00**

Sample Matrix: Air
# Samples Received: 2

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| VOC by Thermal Desorption Diffusive Tube | 2 | 2024/04/26 | N/A | PTC SOP-00128 | EPA 325B |

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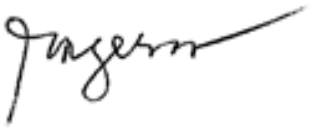
Results relate only to the items tested.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key



Rowena Geron
Customer Service Associate
06 May 2024 09:08:56

Please direct all questions regarding this Certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

==========

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Bureau Veritas Job #: C427907
Report Date: 2024/05/06

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: N/A

## VOLATILE ORGANICS BY GC-MS (AIR)

| Bureau Veritas ID | | CMK982 | CMK985 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2024/04/01 12:00 | 2024/04/01 12:00 | | |
| | UNITS | APR BELL TOWERS VOC | APR BELL TOWERS VOC BLANK | RDL | QC Batch |
| **Passive Monitoring** | | | | | |
| Air Benzene | ug/m3 | <0.50 | <0.50 | 0.50 | B349115 |
| Air Toluene | ug/m3 | <0.50 | <0.50 | 0.50 | B349115 |
| Air Ethylbenzene | ug/m3 | 0.79 | <0.50 | 0.50 | B349115 |
| Air m & p-Xylene | ug/m3 | <2.5 | <2.5 | 2.5 | B349115 |
| Air o-Xylene | ug/m3 | <0.60 | <0.60 | 0.60 | B349115 |
| Air 1,3-Butadiene | ug/m3 | <6.0 | <6.0 | 6.0 | B349115 |
| Air Total Retainable VOCs | ug/m3 | <11 | <11 | 11 | B349115 |
| RDL = Reportable Detection Limit | | | | | |



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C427907
Report Date: 2024/05/06

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: N/A

## GENERAL COMMENTS

Tube Conditioning Expired 2024/02/12
2024/04/30 SDK

**Results relate only to the items tested.**



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C427907
Report Date: 2024/05/06

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: N/A

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| B349115 | XSZ | Method Blank | Air Benzene | | <0.50 | | ug/m3 | |
| | | | Air Toluene | | <0.50 | | ug/m3 | |
| | | | Air Ethylbenzene | | <0.50 | | ug/m3 | |
| | | | Air m & p-Xylene | | <2.5 | | ug/m3 | |
| | | | Air o-Xylene | | <0.60 | | ug/m3 | |
| | | | Air 1,3-Butadiene | | <6.0 | | ug/m3 | |
| | | | Air Total Retainable VOCs | | NA, RDL=11 | | ug/m3 | |

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C427907
Report Date: 2024/05/06

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: N/A

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Steven Gloux, Senior Analyst

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

CAM FCD-01302 /3

BUREAU VERITAS

6744 50 Street NW
Edmonton, AB, T6B 3M9
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: 1-780-378-8500
Fax:

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / WSP E&I Canada
Project Manager: Ryan Fletcher
e-mail: See comments below for email list
Address: 19 Young Street, Red Lake, ON, CA, P0V 2M0
Phone: 1 647-283-4638 Fax:
Sampled by: CB

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening | PM10 | Silica | VOC | Dustfall | $NO_2$ | $SO_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Bell Towers April 1 - 15 VOC | | | April 1 - April 15 | 12:00 | | | | X | | | |
| Bell Towers BLANK VOC | | | April 1 - April 15 | 12:00 | | | | X | | | |
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**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2303.2023D.100
Name: Kinross Project
PO #: EICAC026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; ryan.fletcher@wsp.com; airgroup@woodplc.com; emily.meek@kinross.com; curtis.bloemberg@kinross.com; aaron.peloquin@kinross.com***

Client Signature:
Affiliation: Kinross
Date/Time: April 14th 2024

Received by:
Affiliation:
Date/Time:

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NS 24-04-25
2d C15C
@8:00

Your P.O. #: EICAC026300307
Your Project #: OMEMA2303.2023D.100
Site#: 2024/05/01-2024/05/15
Site Location: KINROSS RED LAKE TD PROJECT

**Attention: Ryan Fletcher**

WSP E&I Canada Limited
160 TRADERS BLVD. EAST
Units 2 & 3
MISSISSAUGA, ON
CANADA L4Z 3K7

**Report Date: 2024/06/05**
Report #: R3509116
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C437580**
**Received: 2024/05/27, 10:30**

Sample Matrix: Air
# Samples Received: 2

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| VOC by Thermal Desorption Diffusive Tube | 2 | 2024/06/03 | N/A | PTC SOP-00128 | EPA 325B |

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Results relate only to the items tested.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Rowena Geron
Customer Service Associate
05 Jun 2024 10:49:06

Please direct all questions regarding this Certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: N/A

## VOLATILE ORGANICS BY GC-MS (AIR)

| Bureau Veritas ID | | COD389 | COD390 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2024/05/01 00:00 | 2024/05/01 00:00 | | |
| | UNITS | MAY BELL TOWERS VOC | MAY BELL TOWERS VOC BLANK | RDL | QC Batch |
| **Passive Monitoring** | | | | | |
| Air Benzene | ug/m3 | <0.50 | <0.50 | 0.50 | B388313 |
| Air Toluene | ug/m3 | 1.5 | <0.50 | 0.50 | B388313 |
| Air Ethylbenzene | ug/m3 | <0.50 | <0.50 | 0.50 | B388313 |
| Air m & p-Xylene | ug/m3 | <2.5 | <2.5 | 2.5 | B388313 |
| Air o-Xylene | ug/m3 | <0.60 | <0.60 | 0.60 | B388313 |
| Air 1,3-Butadiene | ug/m3 | <6.0 | <6.0 | 6.0 | B388313 |
| Air Total Retainable VOCs | ug/m3 | NA | NA | 11 | B388313 |
| RDL = Reportable Detection Limit | | | | | |


Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C437580
Report Date: 2024/06/05

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: N/A

## GENERAL COMMENTS

Tubes used past holding time. Conditioning expired in September. 2024/06/03 SDK

**Results relate only to the items tested.**



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C437580
Report Date: 2024/06/05

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: N/A

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| B388313 | XSZ | Method Blank | Air Benzene | | <0.50 | | ug/m3 | |
| | | | Air Toluene | | <0.50 | | ug/m3 | |
| | | | Air Ethylbenzene | | <0.50 | | ug/m3 | |
| | | | Air m & p-Xylene | | <2.5 | | ug/m3 | |
| | | | Air o-Xylene | | <0.60 | | ug/m3 | |
| | | | Air 1,3-Butadiene | | <6.0 | | ug/m3 | |
| | | | Air Total Retainable VOCs | | NA, RDL=11 | | ug/m3 | |

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C437580
Report Date: 2024/06/05

WSP E&I Canada Limited
Client Project #: OMEMA2303.2023D.100
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: EICAC026300307
Sampler Initials: N/A

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Steven Gloux, Senior Analyst

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

CAM FCD-01302 /3

6744 50 Street NW
Edmonton, AB, T6B 3M9
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: 1-780-378-8500
Fax:

# CHAIN OF CUSTODY FORM - AIR



**CLIENT INFORMATION**

Company Name: Kinross / WSP E&I Canada
Project Manager: Ryan Fletcher
e-mail: See comments below for email list
Address: 19 Young Street,
Red Lake, ON, CA, P0V 2M0
Phone: 1 647-283-4638 Fax:
Sampled by: EM

**SECTION**

**ANALYSIS REQUESTED**

| Field Sample ID | Total Volume Sampled | Flow Rate | Sample Date | Sample Collection Time | Dust Fall Opening | PM10 | Silica | VOC | Dustfall | $NO_2$ | $SO_2$ | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BELL TOWERS VOC MAY | | | MAY 1-15 2024 | MAY 15 2024 | | | | X | | | | | | | | | |
| BELL TOWERS VOC BLANK | | | MAY 1-15 2024 | MAY 15 2024 | | | | X | | | | | | | | | |
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**TAT Requirement**

STD 10 Business day ☑
Rush 5 Business day * ☐
Rush 2 Business day * ☐
* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: OMEMA2303.2023D.100
Name: Kinross Project
PO #: EICAC026300307
BV Quote #:
BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only ☑
EDD ☑
Regulation

**Notes**

***Please note if these samples are "Industrial Hygiene" samples***
*If submitting dustfall samples, please indicate the diameter of the jar opening in cm.*

**PROJECT SPECIFIC COMMENTS**

***Please send results to the following: jacob.mcfee@kinross.com; ashley.moncrief@kinross.com; ryan.fletcher@wsp.com; airgroup@woodplc.com; emily.meek@kinross.com; curtis.bloemberg@kinross.com; aaron.peloquin@kinross.com***

Client Signature: Emily Meek EMeek
Affiliation: KINROSS
Date/Time: May 21 2024

Received by:
Affiliation:
Date/Time:

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DB 2405-27
2 to 15C
C10:30

Your P.O. #: P104312CA001
Your Project #: CA0031272.9242.1000
Site#: 2024/06/01-2024/06/15
Site Location: KINROSS RED LAKE TD PROJECT

**Attention: Ryan Fletcher**

WSP CANADA INC.
Montreal QC
1600 Boulevard Rene-Levesque O
11e Etage
Montreal, QC
CANADA H3H 1P9

**Report Date: 2024/07/24**
Report #: R3531683
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C445927**
**Received: 2024/06/20, 08:00**

Sample Matrix: Air
# Samples Received: 2

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| VOC by Thermal Desorption Diffusive Tube | 2 | 2024/06/21 | 2024/07/24 | PTC SOP-00128 | EPA 325B |

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* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Rowena Geron
Customer Service Associate
25 Jul 2024 08:30:30

Please direct all questions regarding this Certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

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## VOLATILE ORGANICS BY GC-MS (AIR)

| Bureau Veritas ID | | CPT624 | CPT625 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2024/06/01 00:00 | 2024/06/01 00:00 | | |
| | UNITS | JUN BELL TOWERS VOC | JUN BELL TOWERS VOC BLANK | RDL | QC Batch |
| **Passive Monitoring** | | | | | |
| Air Benzene | ug/m3 | <0.50 | <0.50 | 0.50 | B425923 |
| Air Toluene | ug/m3 | <0.50 | <0.50 | 0.50 | B425923 |
| Air Ethylbenzene | ug/m3 | <0.50 | <0.50 | 0.50 | B425923 |
| Air m & p-Xylene | ug/m3 | <2.5 | <2.5 | 2.5 | B425923 |
| Air o-Xylene | ug/m3 | <0.60 | <0.60 | 0.60 | B425923 |
| Air 1,3-Butadiene | ug/m3 | <6.0 | <6.0 | 6.0 | B425923 |
| Air Total Retainable VOCs | ug/m3 | <11 | <11 | 11 | B425923 |
| RDL = Reportable Detection Limit | | | | | |

Bureau Veritas Job #: C445927
Report Date: 2024/07/24

WSP CANADA INC.
Client Project #: CA0031272.9242.1000
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: P104312CA001
Sampler Initials: N/A

## GENERAL COMMENTS

Tubes were sampled past holding time.

Analysis performed past the 30 day post-exposure hold time.

Analysis was delayed due to instrumentation downtime and delays in parts and service to repair. 2024/07/24 SDK

**Results relate only to the items tested.**



Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C445927
Report Date: 2024/07/24

WSP CANADA INC.
Client Project #: CA0031272.9242.1000
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: P104312CA001
Sampler Initials: N/A

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| B425923 | XSZ | Method Blank | Air Benzene | | <0.50 | | ug/m3 | |
| | | | Air Toluene | | <0.50 | | ug/m3 | |
| | | | Air Ethylbenzene | | <0.50 | | ug/m3 | |
| | | | Air m & p-Xylene | | <2.5 | | ug/m3 | |
| | | | Air o-Xylene | | <0.60 | | ug/m3 | |
| | | | Air 1,3-Butadiene | | <6.0 | | ug/m3 | |
| | | | Air Total Retainable VOCs | | NA, RDL=11 | | ug/m3 | |

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



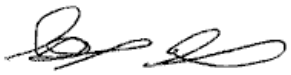
Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C445927
Report Date: 2024/07/24

WSP CANADA INC.
Client Project #: CA0031272.9242.1000
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: P104312CA001
Sampler Initials: N/A

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Steven Gloux, Senior Analyst

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Your P.O. #: P104312CA001
Your Project #: CA0031272.9242.1000
Site#: 2024/07/01-2024/07/15
Site Location: KINROSS RED LAKE TD PROJECT

**Attention: Ryan Fletcher**

WSP CANADA INC.
Montreal QC
1600 Boulevard Rene-Levesque O
11e Etage
Montreal, QC
CANADA H3H 1P9

**Report Date: 2024/08/13**
Report #: R3540818
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C453300**
**Received: 2024/07/19, 09:30**

Sample Matrix: Air
# Samples Received: 2

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| VOC by Thermal Desorption Diffusive Tube | 2 | 2024/08/09 | N/A | PTC SOP-00128 | EPA 325B |

This report shall not be reproduced except in full, without the written approval of the laboratory.
Results relate only to the items tested.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Rowena Geron
Customer Service Associate
13 Aug 2024 13:05:42

Please direct all questions regarding this Certificate of Analysis to:
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

==========

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Branko Banjac, General Manager responsible for Alberta Petroleum laboratory operations.

## VOLATILE ORGANICS BY GC-MS (AIR)

| Bureau Veritas ID | | CRH851 | CRH852 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2024/07/01 00:00 | 2024/07/01 00:00 | | |
| | UNITS | JUL BELL TOWERS VOC | JUL BELL TOWERS VOC BLANK | RDL | QC Batch |
| **Passive Monitoring** | | | | | |
| Air Benzene | ug/m3 | <0.50 | <0.50 | 0.50 | B471224 |
| Air Toluene | ug/m3 | <0.50 | <0.50 | 0.50 | B471224 |
| Air Ethylbenzene | ug/m3 | <0.50 | <0.50 | 0.50 | B471224 |
| Air m & p-Xylene | ug/m3 | <2.5 | <2.5 | 2.5 | B471224 |
| Air o-Xylene | ug/m3 | <0.60 | <0.60 | 0.60 | B471224 |
| Air 1,3-Butadiene | ug/m3 | <6.0 | <6.0 | 6.0 | B471224 |
| Air Total Retainable VOCs | ug/m3 | <11 | <11 | 11 | B471224 |
| RDL = Reportable Detection Limit | | | | | |

## GENERAL COMMENTS

**Results relate only to the items tested.**



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WSP CANADA INC.
Client Project #: CA0031272.9242.1000
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: P104312CA001
Sampler Initials: N/A

## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| B471224 | SDK | Method Blank | Air Benzene | | <0.50 | | ug/m3 | |
| | | | Air Toluene | | <0.50 | | ug/m3 | |
| | | | Air Ethylbenzene | | <0.50 | | ug/m3 | |
| | | | Air m & p-Xylene | | <2.5 | | ug/m3 | |
| | | | Air o-Xylene | | <0.60 | | ug/m3 | |
| | | | Air 1,3-Butadiene | | <6.0 | | ug/m3 | |
| | | | Air Total Retainable VOCs | | NA, RDL=11 | | ug/m3 | |

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



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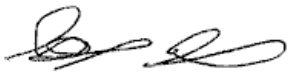
Report Date: 2024/08/13

WSP CANADA INC.
Client Project #: CA0031272.9242.1000
Site Location: KINROSS RED LAKE TD PROJECT
Your P.O. #: P104312CA001
Sampler Initials: N/A

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Steven Gloux, Senior Analyst

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