

Memorandum

To: Will Csanyi – Hydrogeologist, New Gold Inc.

From: Jared Robertson, Geochemist

Cc: Brent Kazamel – Okane Consultants

Our ref: 1003-020-002

Date: March 16, 2021

Re: **Rainy River Mine 2020 Annual Geochemical Monitoring Report**

The Rainy River Mine (RRM) has requested that Okane Consultants Ltd. compile and assess geochemical monitoring data collected in 2020 by RRM with respect to requirements defined in the "Construction and Operation Phases Geochemical Monitoring Plan" (Geochemical Monitoring Plan; AFW, 2016). Monitoring requirements outlined in the Geochemical Monitoring Plan were developed per Environmental Compliance Approvals #5781-9VJQ2J Condition 10 (10) and #5178-9TUPD9 Condition 8 (12). The approach and methodology provided in the Geochemical Monitoring Plan were developed in accordance with guidance in the Prediction Manual for Drainage Chemistry from Sulfidic Geologic Materials (MEND, 2009). This technical memorandum provides the following:

- Summary of current mine rock classification and segregation approach;
- Description of database developed to manage data and information per the Geochemical Monitoring Plan;
- Geochemical classification of mine rock and overburden produced from the open pit in 2020;
- Placement locations of all mine rock and overburden within the RRM site;

- Assessment of quality assurance/quality control audit data;
 - Laboratory duplicates analyzed for carbon and sulfur at the RRM onsite LECO facility to check precision of data used for operational classification of mine rock and overburden
 - Samples submitted to off-site laboratories for acid-base accounting (ABA) analysis to check accuracy of the onsite LECO analyses;
- Appendices that provide tabulated audit data and laboratory reports

Summary of Current Mine Rock Classification and Segregation Approach

Operationally, mine rock and overburden are classified as potentially acid generating (PAG) or not potentially acid generating (NPAG) based on the relative content of sulfur and carbon (assumed, based on ore-body knowledge, to be entirely present as inorganic carbon) in the material. Total sulfur and total carbon contents are determined using a LECO Carbon-Sulfur analyzer (combustion analysis with infrared detection) per method CSA06V. The acid potential (AP) and neutralization potential (NP) are calculated from the total carbon and sulfur using the following calculations provided in MEND (2009):

Neutralization Potential (kg CaCO₃/t rock) = Total Carbon (wt.%) * 83.4

Acid Potential (kg CaCO₃/t rock) = Total Sulfur (wt.%) * 31.25

In addition to the NP calculation above, RRM adjusts NP by a factor of 0.96 to correct for the presence of Fe-carbonate minerals that do not provide any NP (Okane, 2020a). The neutralization potential ratio (NPR) is calculated as the quotient of NP and AP such that NPR = NP/AP. If the NPR is greater than 2, the material is classified as NPAG and if the NPR is less than 2 the material is classified as PAG (AFW, 2013).

In addition, a second level of characterization was developed for PAG rock produced from the open pit based on inferred time to acid onset. The system was originally designed to account for three levels of PAG:

- PAG1 inferred to have the potential to generate acidic conditions within five years of production or fewer;
- PAG2 inferred to have the potential to generate acidic conditions within five to 15 years of productions;
- PAG3 inferred to remain circumneutral for at least 15 years.

The three PAG sub-classifications were based on NP with threshold values of available NP of <12.5 kg CaCO₃/t, 12.5 to 19 kg CaCO₃/t and > 19 kg CaCO₃, respectively. Available NP was defined as the

measured Sobek NP minus 10 kg CaCO₃/t to account for the silicate-neutralization potential that reports to the Sobek analysis but may not react fast enough to neutralize acidity produced by oxidation of pyrite and other sulfide minerals. Operationally, RRM has only implemented the PAG1/PAG2 designation. PAG1 material is always deposited of in the EMRS. Some PAG 2/3 rock is used in construction of the upstream side of the TMA embankment, and in the downstream shells of the Cell 1 and 2 where it will be inundated by tailings. There is not currently any difference in the way PAG2 and PAG3 materials are managed or deposited of on site, which is conservative with respect to mine rock and overburden management because it does not overestimate the lag period to potential onset of acidic conditions for PAG materials.

Mine rock blast holes are arranged on a 7.0 x 7.5 m grid with a 10 m bench height. Cuttings from every blast hole are sampled and analyzed for total carbon and total sulfur and each mining block is classified as PAG1, PAG2/3, or NPAG and routed to the appropriate location.

Data Management

All blast hole and audit geochemistry data are maintained in an onsite database as specified in Section 7.1 of the Geochemical Monitoring Plan. The database is implemented in the MineSight database platform and includes (but is not limited to) sample identification, sample location, lithology, material destination, and analytical results. Data and analytical results included in the current monitoring report are based on a download from the database dated February 16th, 2021 and provided to Okane from RRM via email. All statistics presented herein refer to data available prior to this date of download. Additional laboratory results for 2020 are expected to be received at a later date; this report will be updated accordingly once that data is received.

Open Pit Geological Materials Classification

In 2020, RRM collected and analyzed 49,685 samples of geologic materials from the open pit. The lithology and geochemical classifications of these materials are summarized in Table 1.

Materials Destination

In 2020, RRM produced PAG 1 mine rock, PAG 2/3 mine rock, NPAG mine rock, ore, and overburden from the open pit. Destination of these materials is summarized in Table 2.

Table 1: Lithologic / geochemical classification of open pit samples by lithology.

Lithology	No. of Samples	% of 2020 Open Pit Samples	Geochemical Classification	No. of Samples	% of Lithology
Mafic Volcanics	3,952	8.0%	PAG 2/3	734	18.6%
			NPAG	3,206	81.1%
			LGO	12	0.3%
Intermediate Volcanics	7,432	15.0%	PAG 1	88	1.18%
			PAG 2/3	2,961	39.84%
			NPAG	4,264	57.37%
			HGO	55	0.74%
			MGO	4	0.05%
			LGO	27	0.36%
			Overburden	33	0.44%
Dacitic Tuff	36,746	74.0%	PAG 1	2,198	6.0%
			PAG 2/3	23,063	62.8%
			NPAG	1,050	2.9%
			HGO	2,982	8.1%
			MGO	3,665	10.0%
			LGO	3,784	10.3%
Diabase	1,186	2.4%	PAG 2/3	234	19.7%
			NPAG	933	78.7%
			LGO	19	1.6%
Overburden	368	0.7%	PAG 1	116	31.5%
			PAG 2/3	131	35.6%
			NPAG	66	17.9%
			HGO	2	0.5
			MGO	42	11.4%
			Overburden	11	2.99%

PAG – potentially acid generating; NAG – not potentially acid generating; LGO – low grade ore; MGO – medium-grade ore; HGO – high grade ore.

Table 2: Destination of open pit geologic materials.

Material Description	Destination
PAG 1 mine rock	EMRS
PAG 2/3 mine rock	EMRS / TMA upstream embankment
High-grade ore	Mill
Medium-grade ore	Mill
Low-grade ore	Low-grade ore stockpile
NPAG	WMRS / TMA
Overburden	EMRS / WMRS

Assessment of Quality Assurance/Quality Control Procedures

Two categories of quality assurance (QA) samples are submitted for analysis per the Geochemical Monitoring Plan:

- Laboratory duplicates are analyzed onsite to demonstrate acceptable method precision in total carbon and total sulfur analyses by combustion/IR (LECO); and
- Sample splits are sent to an independent laboratory for ABA analysis to check that the onsite laboratory produces data of sufficient accuracy to ensure that geologic materials produced from the open pit are assigned the correct geochemical classification.

Analytical data from laboratory duplicate and ABA audit samples collected in 2020 are provided in Appendix A. The goal, per the Geochemical Monitoring Plan, is for both laboratory duplicates and the sample splits to be submitted for 1 in 20 (5%) of the blast hole samples. In 2020 carbon/sulfur duplicate samples and ABA audit samples were submitted for 5.6% and 1.0% of samples collected, respectively. Audit samples are currently only available up to April 2020; as such, the percentage of samples submitted for the ABA audit will increase once those sample results are received. A final memorandum will be issued with the complete dataset when available.

Assessment of Laboratory Duplicates

In 2020, 3,106 duplicates were analyzed for total carbon and total sulfur. Figure 1 and Figure 2 show the duplicate values plotted against each other with the 1:1 line for reference. Relative percent difference (RPD) was calculated for each duplicate pair using the following equation:

$$RPD = \frac{|S - D|}{\frac{S + D}{2}} \times 100$$

Where S is the sample result (original) and D is the duplicate result. The acceptable RPD range defined for this study is $\pm 20\%$ for those samples with concentrations greater than five times the detection limit based on U.S. Environmental Protection Agency (U.S. EPA) guidance (U.S.EPA, 2004). Original and duplicate data are provided in Appendix A.

Original and Duplicate Assessment: Carbon

Visual inspection of Figure 1 indicates that the match between total carbon analyses and duplicates is generally good with some scatter but no systematic deviation. The RPD was calculated for 3,106 pairs of duplicate total carbon analyses. Of the 3,106 pairs, 3,044 (98.0%) meet the acceptable RPD range (i.e., they have RPDs below 20% and contain carbon at more than five times the detection limit of 0.005 wt.% defined in the Geochemical Monitoring Plan, Table 2). These results indicate that the LECO laboratory is providing effective precision for total carbon measurements of the mine rock.

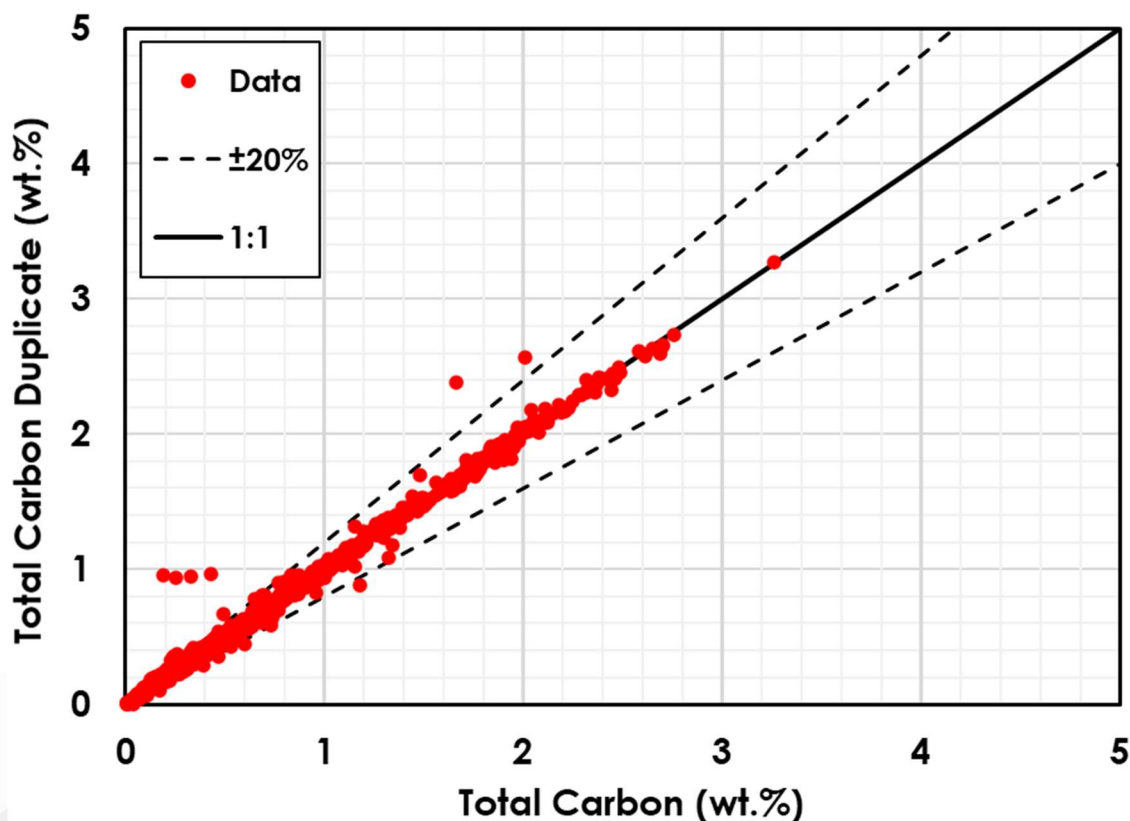


Figure 1: Comparison of original and duplicate carbon data from RRM onsite LECO facility.

Original and Duplicate Assessment: Sulfur

Visual inspection of Figure 2 indicates that the match between total sulfur analyses and duplicates is generally good with some scatter but no systematic error. The RPD was calculated for 3,106 pairs of duplicate total sulfur analyses. Of the 3,106 pairs, 3,074 (99.0%) meet the acceptable RPD range (i.e., they have RPDs below 20% and contain sulfur at more than five times the detection limit of 0.005 wt.%). These results indicate that the LECO laboratory is providing effective precision for total sulfur measurements of the mine rock.

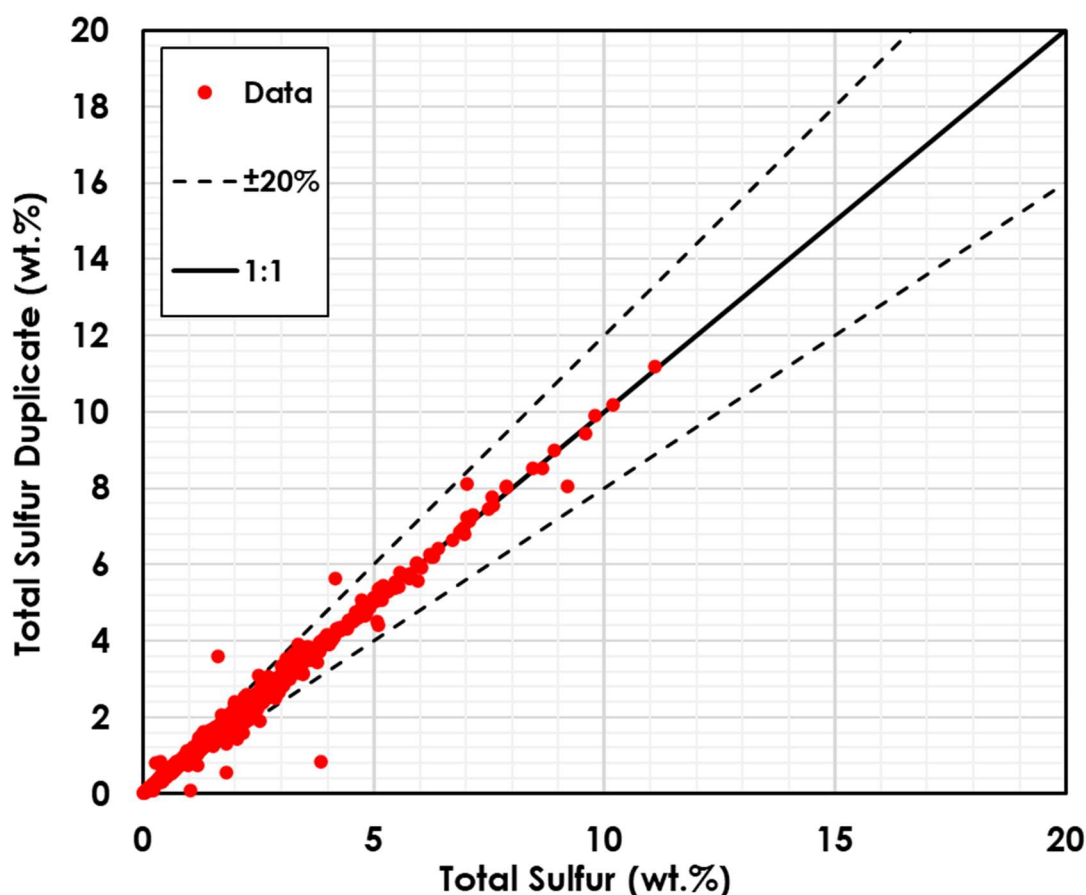


Figure 2: Comparison of original and duplicate sulfur data from RRM onsite LECO facility.

Acid-Base Accounting (ABA) Audit Results

In 2020, 311 results for samples submitted for auditing by an independent analytical laboratory were received. These account for samples submitted until April 2020; more samples have been submitted for auditing and data will be received at a later date and a final memorandum will be issued when available. Samples were sent to Activation Laboratories in Ancaster, Ontario, Canada. Additional

laboratory results for beyond April 2020 are pending and will be updated in this memorandum when available. Laboratory reports are provided in Appendix B.

On-Site LECO NPR Determination vs. Independent Laboratories

Descriptive statistics are provided in Table 3; data are plotted in Figure 3 and box-and-whisker plots are shown in Figure 4. A correction factor of 0.96 is now being applied to the on-site LECO NP values to account for Fe-carbonate minerals which do not provide any buffering capacity. This change was recommended during the April 2020 ITRB (No. 10) meeting (Okane, 2020a; New Gold Independent Technical Review Board, 2020). The median NPR values determined by modified Sobek (independent laboratory) and LECO (on-site laboratory) are in close agreement (0.4 and 0.5, respectively) and are consistent with the 2019 Annual Geochemical Monitoring Report results (Okane, 2020b).

The match between on-site LECO NPR values and modified Sobek NPR duplicates is generally good, although there is slightly more deviation at low NPR values (Figure 3). At low NPR values, the LECO NPR is slightly overestimated; however, this effect is less pronounced as the NPR reaches the PAG/NPAG cut-off of 2. The comparable results between the independent laboratory and the on-site LECO laboratory demonstrate that the accuracy of the LECO laboratory produced acceptable results during 2020 and mine rock is being segregated as intended.

Table 3: Descriptive statistics for Sobek and NPR values.

Descriptive Statistics	Sobek NPR	LECO NPR
Sample Size	311	311
Minimum	0.01	0.01
Maximum	15	26
Median	0.4	0.5
Average	0.8	1.0
90 th Percentile	1.5	1.8
10 th Percentile	0.12	0.17

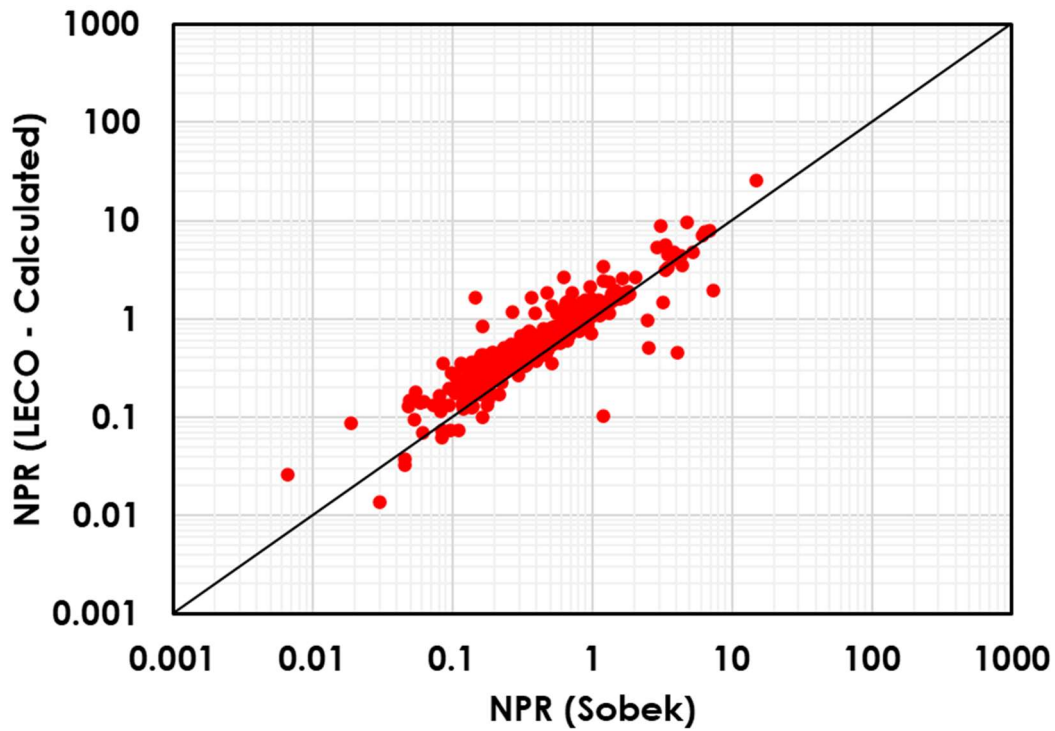


Figure 3: Scatter plot showing comparison of NPR calculated from on-site LECO carbon and sulfur.

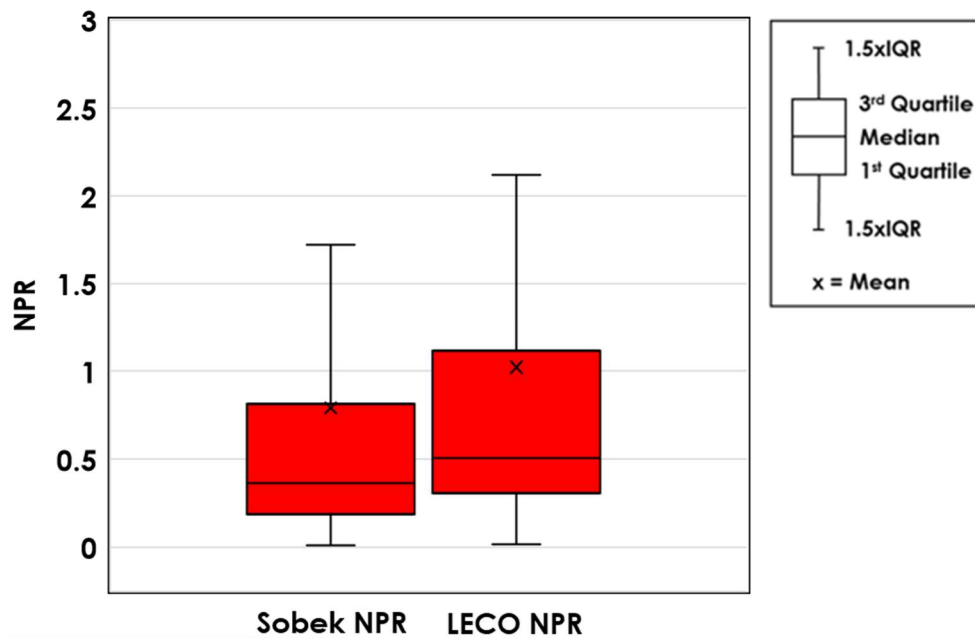


Figure 4: Box-and-whisker plots showing comparison of NPR calculated from on-site LECO carbon and sulfur and NPR from Sobek analyses. IQR = Inter-quartile range.

Conclusions

Duplicate data and independent laboratory data were evaluated to verify the performance of mine rock classification for the purpose of segregating and properly handling PAG and NPAG material at RRM. Duplicate data indicated that a high level of precision was achieved in 2020 and that measured NPR values were repeatable at the on-site LECO laboratory. Independent ABA measurements confirmed that the NPR of mine rock samples being measured by the LECO laboratory were accurate during 2020 and that mine rock is being properly classified as PAG or NPAG. Only data up to April 2020 is available for the independent ABA; a final memorandum will be issued with the complete dataset when available. Overall, the Geochemical Monitoring Plan was executed as intended in 2020. Geochemical focused studies will continue into 2021 under the guidance and recommendations of the internal technical review board.

Closure

We trust information provided in this memorandum is satisfactory for your requirements. Please do not hesitate to contact me at 306-713-1695 or jrobertson@okc-sk.com should you have any questions or comments.

References

- AFW. 2013. Rainy River Gold Project—Report on Metal Leaching and Acid Rock Drainage Characterization of Mine Rock and Tailings. TC111504, prepared by AMEC Environment and Infrastructure, submitted to Rainy River Resources Ltd., May 2013
- AFW. 2016. Rainy River Project, Construction and Operation Phases Geochemical Monitoring Plan, Version 3, Prepared by AMEC Foster Wheeler, January 2016
- MEND. 2009. Prediction Manual for Drainage Chemistry from Sulphidic Geologic Materials. Report 1.20.1, Version 0.0, Prepared by W.A. Price of CANMET – Mining and Mineral Sciences Laboratories for MEND, December 2009.
- New Gold Independent Technical Review Board. 2020. Rainy River Project, Independent Technical Review Board Meeting No. 10 Report, April 2020.
- Okane Consultants. 2020a. Rainy River Project, Update to Carbonate Speciation Study, April 2020.
- Okane Consultants. 2020b. Rainy River Mine 2019 Annual Geochemical Monitoring Report, April 2020.
- U.S. Environmental Protection Agency (U.S. EPA). 2004. USEPA Contract Laboratory Program, National Functional Guidelines for Inorganic Data Review, U.S. EPA Report EPA 540-R-04-004, October 2004

Appendix A

Laboratory Results from the Rainy River Mine Onsite LECO Facility and Independent Laboratory

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1226002175	2/12/2020	0.11	0.10	9.5%	1.39	1.39	0.0%
1226002179	2/12/2020	0.13	0.13	0.0%	0.91	0.92	1.1%
1226002013	2/12/2020	0.14	0.15	6.9%	0.31	0.32	3.2%
1226002021	2/12/2020	0.21	0.21	0.0%	0.27	0.26	3.8%
1226002095	2/12/2020	0.23	0.24	4.3%	0.82	0.83	1.2%
1226002035	2/12/2020	0.25	0.25	0.0%	1.55	1.54	0.6%
1226002212	2/12/2020	0.31	0.30	3.3%	3.10	2.96	4.6%
1226002131	2/12/2020	0.34	0.34	0.0%	2.48	2.42	2.4%
1226002204	2/12/2020	0.36	0.36	0.0%	2.14	2.10	1.9%
1226002099	2/12/2020	0.37	0.37	0.0%	1.25	1.26	0.8%
1226002075	2/12/2020	0.61	0.62	1.6%	1.98	1.98	0.0%
1226002044	2/13/2020	0.12	0.12	0.0%	0.34	0.36	5.7%
1230501196	2/13/2020	0.31	0.31	0.0%	0.94	0.96	2.1%
1228050024	2/13/2020	0.41	0.41	0.0%	0.67	0.65	3.0%
1228050006	2/13/2020	0.44	0.44	0.0%	1.11	1.00	10.4%
1227021220	2/14/2020	0.08	0.09	11.8%	0.94	0.98	4.2%
1227021212	2/14/2020	0.14	0.14	0.0%	1.39	1.41	1.4%
1227021180	2/14/2020	0.18	0.18	0.0%	1.19	1.19	0.0%
1227021001	2/14/2020	0.17	0.18	5.7%	1.45	1.44	0.7%
1227021006	2/14/2020	0.19	0.19	0.0%	2.21	2.25	1.8%
1227021201	2/14/2020	0.21	0.20	4.9%	1.80	1.79	0.6%
1230501144	2/14/2020	0.25	0.25	0.0%	1.26	1.16	8.3%
1227021174	2/14/2020	0.26	0.26	0.0%	1.88	1.87	0.5%
1227021143	2/14/2020	0.28	0.27	3.6%	1.69	1.76	4.1%
1227021203	2/14/2020	0.23	0.33	35.7%	2.18	2.09	4.2%
1227021158	2/14/2020	0.38	0.38	0.0%	1.68	1.64	2.4%
1227021135	2/14/2020	0.44	0.46	4.4%	2.43	2.46	1.2%
1227021031	2/14/2020	0.50	0.50	0.0%	0.77	0.77	0.0%
1227021169	2/14/2020	0.54	0.55	1.8%	1.46	1.51	3.4%
1227021263	2/16/2020	0.18	0.19	5.4%	1.91	1.93	1.0%
1230501120	2/16/2020	0.28	0.27	3.6%	1.66	1.79	7.5%
1230501058	2/16/2020	0.28	0.29	3.5%	2.88	2.80	2.8%
1230501082	2/16/2020	0.30	0.30	0.0%	1.03	1.01	2.0%
1227021273	2/16/2020	0.33	0.33	0.0%	2.06	2.10	1.9%
1230501052	2/16/2020	0.42	0.41	2.4%	1.05	1.05	0.0%
1227021227	2/16/2020	0.47	0.48	2.1%	1.75	1.71	2.3%
1230501096	2/16/2020	0.52	0.53	1.9%	0.98	0.98	0.0%
1227021059	2/17/2020	0.24	0.23	4.3%	1.50	1.52	1.3%
1227021073	2/17/2020	0.32	0.33	3.1%	1.62	1.54	5.1%
1227021088	2/17/2020	0.36	0.37	2.7%	1.54	1.59	3.2%
1227021083	2/17/2020	0.39	0.40	2.5%	1.06	1.03	2.9%
1226005006	2/18/2020	0.08	0.08	0.0%	2.14	2.16	0.9%
1226005044	2/18/2020	0.61	0.61	0.0%	0.37	0.38	2.7%
1226005125	2/18/2020	0.69	0.70	1.4%	0.76	0.75	1.3%
1226005333	2/19/2020	0.29	0.24	18.9%	1.38	1.29	6.7%
1226005318	2/19/2020	0.23	0.25	8.3%	0.67	0.69	2.9%
1227028057	2/20/2020	0.11	0.09	20.0%	1.55	1.31	16.8%
1226013020	2/20/2020	0.12	0.13	8.0%	2.69	2.74	1.8%
1226005137	2/20/2020	0.17	0.17	0.0%	1.39	1.40	0.7%
1227028022	2/20/2020	0.27	0.26	3.8%	2.38	2.30	3.4%
1226005051	2/20/2020	0.29	0.28	3.5%	1.09	1.09	0.0%
1226013101	2/20/2020	0.35	0.30	15.4%	2.90	2.63	9.8%
1226013060	2/20/2020	0.31	0.31	0.0%	2.67	2.73	2.2%
1226005011	2/20/2020	0.36	0.37	2.7%	0.84	0.88	4.7%
1227028046	2/20/2020	0.52	0.53	1.9%	3.02	3.08	2.0%
1226013105	2/21/2020	0.20	0.18	10.5%	3.03	2.82	7.2%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1226013175	2/21/2020	0.20	0.20	0.0%	2.40	2.31	3.8%
1227028086	2/21/2020	0.23	0.20	14.0%	2.70	2.55	5.7%
1226013128	2/21/2020	0.21	0.21	0.0%	1.70	1.69	0.6%
1227028135	2/21/2020	0.23	0.23	0.0%	1.13	1.11	1.8%
1227028132	2/21/2020	0.24	0.24	0.0%	1.59	1.61	1.3%
1227028148	2/21/2020	0.26	0.24	8.0%	1.84	1.77	3.9%
1227028076	2/21/2020	0.29	0.30	3.4%	1.34	1.37	2.2%
1227028114	2/21/2020	0.32	0.31	3.2%	2.02	2.03	0.5%
1226013133	2/21/2020	0.32	0.31	3.2%	2.11	2.39	12.4%
1226013168	2/21/2020	0.68	0.64	6.1%	2.07	2.04	1.5%
1226013077	2/22/2020	0.14	0.13	7.4%	0.89	0.91	2.2%
1226013035	2/22/2020	0.20	0.19	5.1%	1.06	0.97	8.9%
1226013011	2/22/2020	0.23	0.22	4.4%	2.19	2.10	4.2%
1226013157	2/22/2020	0.31	0.29	6.7%	1.71	1.68	1.8%
1226013046	2/22/2020	0.40	0.38	5.1%	0.61	0.59	3.3%
1226005070	2/23/2020	0.20	0.20	0.0%	1.96	2.06	5.0%
1226005103	2/23/2020	0.22	0.21	4.7%	1.07	1.13	5.5%
1226005159	2/23/2020	0.21	0.21	0.0%	1.84	1.91	3.7%
1226005153	2/23/2020	0.21	0.22	4.7%	1.30	1.46	11.6%
1226010037	2/23/2020	0.25	0.25	0.0%	0.47	0.47	0.0%
1226005309	2/23/2020	0.22	0.27	20.4%	1.19	1.26	5.7%
1226005026	2/23/2020	0.28	0.27	3.6%	1.73	1.69	2.3%
1226013223	2/23/2020	0.29	0.31	6.7%	1.93	2.03	5.1%
1226010004	2/23/2020	0.32	0.32	0.0%	0.61	0.59	3.3%
1226005111	2/23/2020	0.33	0.33	0.0%	0.92	0.92	0.0%
1226013196	2/23/2020	0.32	0.33	3.1%	2.34	2.31	1.3%
1226013042	2/23/2020	0.37	0.42	12.7%	1.81	1.87	3.3%
1226010054	2/24/2020	0.15	0.15	0.0%	0.43	0.43	0.0%
1227029062	2/24/2020	0.18	0.19	5.4%	2.62	2.62	0.0%
1227029005	2/24/2020	0.20	0.19	5.1%	2.63	2.71	3.0%
1227029040	2/24/2020	0.21	0.20	4.9%	2.44	2.55	4.4%
1226010030	2/24/2020	0.26	0.25	3.9%	0.35	0.35	0.0%
1226010101	2/24/2020	0.32	0.31	3.2%	0.47	0.46	2.2%
1226010088	2/24/2020	0.32	0.32	0.0%	0.35	0.36	2.8%
1227029093	2/24/2020	0.44	0.44	0.0%	9.21	8.05	13.4%
1227029011	2/24/2020	0.44	0.45	2.2%	4.72	4.80	1.7%
1227029012	2/24/2020	0.50	0.48	4.1%	2.38	2.27	4.7%
1226010236	2/25/2020	0.11	0.11	0.0%	0.57	0.57	0.0%
1226010114	2/25/2020	0.17	0.17	0.0%	0.25	0.26	3.9%
1226010154	2/25/2020	0.26	0.26	0.0%	0.34	0.33	3.0%
1232011068	2/25/2020	0.26	0.27	3.8%	0.31	0.31	0.0%
1226010129	2/25/2020	0.28	0.28	0.0%	0.31	0.31	0.0%
1226010116	2/25/2020	0.28	0.28	0.0%	0.32	0.31	3.2%
1232011042	2/25/2020	0.39	0.37	5.3%	0.51	0.50	2.0%
1232011085	2/25/2020	0.37	0.38	2.7%	0.17	0.16	6.1%
1232011010	2/25/2020	0.43	0.39	9.8%	0.59	0.60	1.7%
1232011072	2/25/2020	0.41	0.40	2.5%	0.58	0.57	1.7%
1226011185	2/26/2020	0.15	0.15	0.0%	2.27	2.24	1.3%
1226011262	2/26/2020	0.17	0.17	0.0%	2.84	2.80	1.4%
1226010222	2/26/2020	0.19	0.19	0.0%	0.55	0.54	1.8%
1226011191	2/26/2020	0.18	0.19	5.4%	2.20	2.17	1.4%
1226011235	2/26/2020	0.21	0.21	0.0%	1.73	1.69	2.3%
1226011205	2/26/2020	0.23	0.21	9.1%	2.43	2.14	12.7%
1226010173	2/26/2020	0.24	0.25	4.1%	0.18	0.15	18.2%
1226011121	2/26/2020	0.27	0.27	0.0%	0.16	0.17	6.1%
1226011098	2/26/2020	0.27	0.27	0.0%	0.19	0.18	5.4%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1226011210	2/26/2020	0.28	0.27	3.6%	1.44	1.32	8.7%
1226011238	2/26/2020	0.26	0.27	3.8%	1.71	1.70	0.6%
1226010136	2/26/2020	0.34	0.33	3.0%	0.35	0.36	2.8%
1226011104	2/26/2020	0.38	0.37	2.7%	0.97	0.98	1.0%
1226011115	2/26/2020	0.46	0.43	6.7%	0.55	0.55	0.0%
1226011103	2/26/2020	0.51	0.51	0.0%	0.75	0.73	2.7%
1228038181	2/28/2020	0.03	0.03	0.0%	1.03	1.06	2.9%
1228038233	2/28/2020	0.06	0.06	0.0%	1.50	1.52	1.3%
1228038081	2/28/2020	0.06	0.06	0.0%	3.05	2.96	3.0%
1228038028	2/28/2020	0.08	0.08	0.0%	2.60	2.41	7.6%
1226006146	2/28/2020	0.15	0.15	0.0%	1.25	1.23	1.6%
1228038296	2/28/2020	0.15	0.16	6.5%	0.09	0.10	10.5%
1226006119	2/28/2020	0.17	0.17	0.0%	0.51	0.52	1.9%
1226011059	2/28/2020	0.20	0.21	4.9%	0.51	0.50	2.0%
1228038171	2/28/2020	0.24	0.23	4.3%	1.73	1.80	4.0%
1228038127	2/28/2020	0.27	0.27	0.0%	1.70	1.77	4.0%
1226011051	2/28/2020	0.29	0.29	0.0%	0.12	0.12	0.0%
1226011049	2/28/2020	0.31	0.32	3.2%	0.47	0.46	2.2%
1226011067	2/28/2020	0.32	0.33	3.1%	0.75	0.75	0.0%
1226006063	2/28/2020	0.34	0.33	3.0%	1.24	1.28	3.2%
1228038082	2/28/2020	0.33	0.33	0.0%	3.95	3.99	1.0%
1228038175	2/28/2020	0.37	0.36	2.7%	2.23	2.27	1.8%
1228038331	2/28/2020	0.38	0.37	2.7%	2.66	2.57	3.4%
1228038253	2/28/2020	0.40	0.40	0.0%	1.20	1.20	0.0%
1228038058	2/28/2020	0.46	0.47	2.2%	2.22	2.16	2.7%
1228038202	2/28/2020	0.53	0.51	3.8%	1.94	1.93	0.5%
1228038278	2/28/2020	0.52	0.53	1.9%	2.28	2.38	4.3%
1228038206	2/28/2020	0.54	0.54	0.0%	2.31	2.22	4.0%
1228038176	2/28/2020	0.55	0.55	0.0%	2.08	2.26	8.3%
1228038149	2/28/2020	0.65	0.66	1.5%	1.60	1.65	3.1%
1228038283	2/28/2020	0.77	0.76	1.3%	1.05	1.02	2.9%
1228038107	2/28/2020	0.85	0.85	0.0%	1.81	1.79	1.1%
1228038417	2/28/2020	1.03	1.01	2.0%	2.40	2.44	1.7%
1226006186	2/29/2020	0.10	0.10	0.0%	0.97	0.98	1.0%
1226011028	2/29/2020	0.12	0.11	8.7%	0.55	0.52	5.6%
1226011020	2/29/2020	0.11	0.12	8.7%	0.62	0.62	0.0%
1226006156	2/29/2020	0.13	0.14	7.4%	1.09	1.14	4.5%
1226006403	2/29/2020	0.18	0.19	5.4%	1.20	1.14	5.1%
1226006207	2/29/2020	0.19	0.19	0.0%	1.38	1.36	1.5%
1226011037	2/29/2020	0.18	0.20	10.5%	0.54	0.57	5.4%
1226006129	2/29/2020	0.21	0.21	0.0%	0.99	1.02	3.0%
1226006051	2/29/2020	0.26	0.26	0.0%	1.36	1.40	2.9%
1226006216	2/29/2020	0.25	0.26	3.9%	1.90	1.88	1.1%
1226006420	2/29/2020	0.29	0.29	0.0%	1.64	1.60	2.5%
1226006054	2/29/2020	0.31	0.31	0.0%	0.96	0.96	0.0%
1226006199	2/29/2020	0.33	0.31	6.3%	2.64	2.54	3.9%
1226006215	2/29/2020	0.36	0.34	5.7%	2.69	2.49	7.7%
1226006025	2/29/2020	0.64	0.69	7.5%	1.17	1.19	1.7%
1227015051	3/1/2020	0.15	0.15	0.0%	0.65	0.61	6.3%
1227015020	3/1/2020	0.23	0.23	0.0%	0.13	0.12	8.0%
1227015100	3/1/2020	0.25	0.26	3.9%	0.78	0.77	1.3%
1227015149	3/1/2020	0.26	0.27	3.8%	0.64	0.63	1.6%
1227015018	3/1/2020	0.28	0.28	0.0%	0.59	0.59	0.0%
1227015138	3/1/2020	0.31	0.30	3.3%	0.97	0.91	6.4%
1227015219	3/1/2020	0.33	0.39	16.7%	1.35	1.27	6.1%
1227015175	3/1/2020	0.53	0.52	1.9%	0.76	0.76	0.0%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1227015304	3/1/2020	0.64	0.65	1.6%	1.60	1.63	1.9%
1227015297	3/1/2020	1.18	1.20	1.7%	2.03	2.05	1.0%
1227015366	3/1/2020	1.26	1.26	0.0%	2.24	2.29	2.2%
1227015214	3/1/2020	3.26	3.27	0.3%	0.40	0.37	7.8%
1226007109	3/3/2020	0.07	0.07	0.0%	2.16	2.15	0.5%
1226007104	3/3/2020	0.13	0.13	0.0%	1.53	1.56	1.9%
1226007027	3/3/2020	0.16	0.16	0.0%	1.97	2.01	2.0%
1226007045	3/3/2020	0.16	0.16	0.0%	2.09	2.12	1.4%
1226007039	3/3/2020	0.20	0.19	5.1%	1.56	1.56	0.0%
1226007183	3/3/2020	0.19	0.19	0.0%	2.11	2.11	0.0%
1226007010	3/3/2020	0.20	0.21	4.9%	2.21	2.17	1.8%
1226007181	3/3/2020	0.24	0.22	8.7%	1.90	1.64	14.7%
1226007153	3/3/2020	0.24	0.23	4.3%	2.16	1.94	10.7%
1226007047	3/3/2020	0.24	0.24	0.0%	1.07	1.04	2.8%
1226007202	3/3/2020	0.25	0.25	0.0%	1.13	1.04	8.3%
1226007002	3/3/2020	0.26	0.25	3.9%	1.70	1.73	1.7%
1226007136	3/3/2020	0.26	0.26	0.0%	0.36	0.33	8.7%
1227031103	3/3/2020	0.32	0.30	6.5%	1.73	1.79	3.4%
1226007177	3/3/2020	0.32	0.32	0.0%	1.51	1.50	0.7%
1227031041	3/3/2020	0.38	0.38	0.0%	1.90	1.92	1.0%
1226007055	3/3/2020	0.40	0.40	0.0%	0.81	0.81	0.0%
1227031011	3/3/2020	0.43	0.45	4.5%	1.76	1.81	2.8%
1227031038	3/3/2020	0.47	0.47	0.0%	1.88	1.79	4.9%
1227015046	3/5/2020	0.08	0.08	0.0%	2.06	2.04	1.0%
1227015035	3/5/2020	0.16	0.17	6.1%	2.42	2.46	1.6%
1227015272	3/5/2020	0.29	0.28	3.5%	0.72	0.74	2.7%
1227015032	3/5/2020	0.41	0.42	2.4%	0.96	1.00	4.1%
1227015195	3/5/2020	0.42	0.43	2.4%	0.48	0.50	4.1%
1227015193	3/5/2020	0.45	0.45	0.0%	0.39	0.38	2.6%
1227015315	3/5/2020	1.61	1.63	1.2%	1.52	1.25	19.5%
1227015083	3/6/2020	0.25	0.27	7.7%	0.40	0.40	0.0%
1227015282	3/6/2020	0.29	0.29	0.0%	1.14	1.12	1.8%
1227015280	3/6/2020	0.96	0.83	14.5%	2.02	1.91	5.6%
1227015331	3/6/2020	1.68	1.61	4.3%	1.58	1.56	1.3%
1227016072	3/7/2020	0.03	0.02	40.0%	0.24	0.20	18.2%
1227016054	3/7/2020	0.04	0.04	0.0%	0.26	0.27	3.8%
1227016028	3/7/2020	0.06	0.08	28.6%	2.93	2.83	3.5%
1227016018	3/7/2020	0.12	0.11	8.7%	2.94	2.72	7.8%
1227016041	3/7/2020	0.14	0.13	7.4%	0.48	0.47	2.1%
1227016094	3/7/2020	0.14	0.14	0.0%	1.77	1.85	4.4%
1227016137	3/7/2020	0.22	0.22	0.0%	2.88	2.79	3.2%
1227016078	3/7/2020	0.29	0.28	3.5%	3.23	3.12	3.5%
1227016178	3/7/2020	0.26	0.29	10.9%	0.25	0.26	3.9%
1227016066	3/7/2020	0.49	0.48	2.1%	2.32	2.21	4.9%
1227016134	3/7/2020	0.65	0.78	18.2%	1.98	2.41	19.6%
1227016200	3/8/2020	0.02	0.02	0.0%	1.21	1.38	13.1%
1226022132	3/8/2020	0.06	0.06	0.0%	1.60	1.43	11.2%
1226022113	3/8/2020	0.06	0.06	0.0%	7.57	7.77	2.6%
1226022207	3/8/2020	0.11	0.10	9.5%	2.97	3.06	3.0%
1226022139	3/8/2020	0.12	0.12	0.0%	1.67	1.69	1.2%
1226022194	3/8/2020	0.12	0.12	0.0%	4.28	4.31	0.7%
1226022285	3/8/2020	0.15	0.13	14.3%	2.10	2.12	0.9%
1226022144	3/8/2020	0.17	0.18	5.7%	1.10	1.17	6.2%
1226022274	3/8/2020	0.23	0.22	4.4%	0.44	0.44	0.0%
1226022152	3/8/2020	0.21	0.22	4.7%	1.88	1.90	1.1%
1226022191	3/8/2020	0.23	0.24	4.3%	2.01	1.93	4.1%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1226022280	3/8/2020	0.26	0.26	0.0%	2.18	2.17	0.5%
1226022179	3/8/2020	0.40	0.41	2.5%	0.90	0.95	5.4%
1226022084	3/8/2020	0.61	0.60	1.7%	4.73	4.81	1.7%
1226022125	3/8/2020	0.82	0.82	0.0%	5.11	5.08	0.6%
1227016129	3/8/2020	1.32	1.38	4.4%	1.62	1.72	6.0%
1227016233	3/10/2020	0.10	0.09	10.5%	2.12	2.05	3.4%
1226022232	3/10/2020	0.18	0.19	5.4%	1.21	1.28	5.6%
1226022015	3/10/2020	0.21	0.21	0.0%	2.16	2.31	6.7%
1226022059	3/10/2020	0.31	0.32	3.2%	1.19	1.26	5.7%
1226022033	3/10/2020	0.47	0.46	2.2%	0.79	0.80	1.3%
1227030035	3/10/2020	0.52	0.46	12.2%	1.00	0.94	6.2%
1226022044	3/10/2020	0.47	0.47	0.0%	3.01	2.98	1.0%
1226022010	3/10/2020	0.47	0.48	2.1%	2.03	2.06	1.5%
1226022251	3/10/2020	0.54	0.56	3.6%	1.98	1.95	1.5%
1227030075	3/10/2020	0.62	0.62	0.0%	1.01	1.07	5.8%
1226022038	3/10/2020	0.64	0.63	1.6%	11.10	11.20	0.9%
1227030079	3/10/2020	0.82	0.82	0.0%	1.23	1.19	3.3%
1227016242	3/10/2020	1.33	1.34	0.7%	1.84	1.81	1.6%
1227016226	3/10/2020	1.31	1.36	3.7%	1.77	1.62	8.8%
1227016211	3/10/2020	2.08	2.01	3.4%	1.78	1.73	2.8%
1226014189	3/11/2020	0.18	0.17	5.7%	0.10	0.10	0.0%
1226014260	3/11/2020	0.16	0.17	6.1%	1.75	1.83	4.5%
1226014361	3/11/2020	0.20	0.19	5.1%	2.52	2.58	2.4%
1226014253	3/11/2020	0.24	0.23	4.3%	0.36	0.37	2.7%
1226014254	3/11/2020	0.25	0.26	3.9%	0.09	0.10	10.5%
1226014153	3/11/2020	0.30	0.29	3.4%	2.08	2.12	1.9%
1226014262	3/11/2020	0.40	0.41	2.5%	1.84	1.91	3.7%
1226014364	3/11/2020	0.41	0.43	4.8%	2.17	2.25	3.6%
1227041077	3/12/2020	0.13	0.14	7.4%	1.35	1.34	0.7%
1227041024	3/12/2020	0.15	0.14	6.9%	3.04	2.85	6.5%
1227041042	3/12/2020	0.17	0.16	6.1%	2.16	2.12	1.9%
1227041013	3/12/2020	0.19	0.19	0.0%	0.16	0.17	6.1%
1226014017	3/12/2020	0.21	0.20	4.9%	1.90	1.72	9.9%
1226014030	3/12/2020	0.20	0.21	4.9%	2.31	2.40	3.8%
1226014078	3/12/2020	0.25	0.23	8.3%	3.00	3.01	0.3%
1226014012	3/12/2020	0.27	0.26	3.8%	0.28	0.27	3.6%
1226014028	3/12/2020	0.46	0.46	0.0%	2.28	2.21	3.1%
1227041058	3/12/2020	0.47	0.48	2.1%	1.00	1.02	2.0%
1227035204	3/13/2020	0.10	0.10	0.0%	0.11	0.10	9.5%
1227035028	3/13/2020	0.17	0.15	12.5%	0.18	0.19	5.4%
1227035054	3/13/2020	0.18	0.17	5.7%	0.15	0.16	6.5%
1227035055	3/13/2020	0.23	0.23	0.0%	0.49	0.51	4.0%
1226014234	3/13/2020	0.23	0.23	0.0%	1.75	1.76	0.6%
1226014046	3/13/2020	0.22	0.23	4.4%	2.79	2.76	1.1%
1227035274	3/13/2020	0.25	0.26	3.9%	0.56	0.55	1.8%
1227035079	3/13/2020	0.25	0.26	3.9%	1.34	1.38	2.9%
1226014159	3/13/2020	0.28	0.26	7.4%	1.75	1.86	6.1%
1226014139	3/13/2020	0.28	0.26	7.4%	3.00	3.13	4.2%
1227035177	3/13/2020	0.29	0.32	9.8%	2.49	2.56	2.8%
1226014165	3/13/2020	0.35	0.36	2.8%	1.43	1.46	2.1%
1227035109	3/13/2020	0.37	0.38	2.7%	1.81	1.86	2.7%
1226014164	3/13/2020	0.38	0.39	2.6%	1.98	1.90	4.1%
1227035040	3/13/2020	0.42	0.41	2.4%	0.87	0.87	0.0%
1226014173	3/13/2020	0.40	0.41	2.5%	1.92	1.90	1.0%
1226014113	3/13/2020	0.40	0.41	2.5%	2.04	2.08	1.9%
1227035245	3/13/2020	0.42	0.42	0.0%	2.75	2.72	1.1%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1227035207	3/13/2020	0.43	0.43	0.0%	1.17	1.25	6.6%
1226014089	3/13/2020	0.44	0.44	0.0%	2.10	2.13	1.4%
1226014110	3/13/2020	0.49	0.48	2.1%	1.80	1.76	2.2%
1227035239	3/13/2020	0.55	0.55	0.0%	2.36	2.31	2.1%
1227035219	3/13/2020	0.62	0.62	0.0%	1.17	1.16	0.9%
1227035093	3/13/2020	0.69	0.68	1.5%	1.10	1.10	0.0%
1227035100	3/13/2020	0.72	0.70	2.8%	2.20	2.22	0.9%
1227035111	3/13/2020	0.72	0.72	0.0%	1.75	1.82	3.9%
1227035088	3/13/2020	0.84	0.82	2.4%	1.93	2.02	4.6%
1227035253	3/13/2020	0.87	0.87	0.0%	2.03	2.02	0.5%
1227035009	3/13/2020	1.06	1.08	1.9%	1.78	1.83	2.8%
1226004115	3/16/2020	0.08	0.09	11.8%	2.15	2.15	0.0%
1226025118	3/16/2020	0.16	0.16	0.0%	1.77	1.78	0.6%
1226025014	3/16/2020	0.21	0.19	10.0%	1.42	1.35	5.1%
1226004310	3/16/2020	0.18	0.19	5.4%	2.35	2.36	0.4%
1226004180	3/16/2020	0.20	0.21	4.9%	1.09	1.11	1.8%
1226025070	3/16/2020	0.24	0.23	4.3%	1.26	1.18	6.6%
1226004194	3/16/2020	0.25	0.25	0.0%	1.64	1.69	3.0%
1226025021	3/16/2020	0.24	0.25	4.1%	3.19	3.33	4.3%
1226025046	3/16/2020	0.27	0.26	3.8%	1.60	1.62	1.2%
1226004264	3/16/2020	0.32	0.33	3.1%	1.93	1.93	0.0%
1226004119	3/16/2020	0.32	0.34	6.1%	1.05	1.05	0.0%
1226025005	3/16/2020	0.26	0.37	34.9%	1.23	1.12	9.4%
1226004108	3/16/2020	0.45	0.46	2.2%	3.00	3.02	0.7%
1226004255	3/16/2020	0.80	0.79	1.3%	2.21	2.20	0.5%
1226025136	3/16/2020	0.19	0.96	133.9%	1.81	0.57	104.2%
1226004025	3/19/2020	0.11	0.07	44.4%	0.72	0.69	4.3%
1226004048	3/19/2020	0.09	0.12	28.6%	1.38	1.44	4.3%
1226004087	3/19/2020	0.13	0.14	7.4%	0.33	0.31	6.3%
1226015282	3/19/2020	0.14	0.14	0.0%	1.36	1.32	3.0%
1226004181	3/19/2020	0.18	0.16	11.8%	2.42	2.55	5.2%
1226004213	3/19/2020	0.20	0.19	5.1%	1.63	1.49	9.0%
1226015298	3/19/2020	0.22	0.20	9.5%	0.86	0.81	6.0%
1226015230	3/19/2020	0.28	0.29	3.5%	1.27	1.24	2.4%
1226004086	3/19/2020	0.31	0.30	3.3%	2.71	2.61	3.8%
1226004006	3/19/2020	0.30	0.30	0.0%	2.86	2.62	8.8%
1226004009	3/19/2020	0.32	0.31	3.2%	2.68	2.89	7.5%
1226015151	3/19/2020	0.30	0.32	6.5%	0.83	0.89	7.0%
1226004013	3/19/2020	0.35	0.34	2.9%	1.77	1.88	6.0%
1226015182	3/19/2020	0.38	0.39	2.6%	0.96	0.95	1.0%
1226015341	3/19/2020	0.48	0.44	8.7%	0.87	0.86	1.2%
1226004031	3/19/2020	0.44	0.48	8.7%	1.83	1.94	5.8%
1226015143	3/19/2020	0.82	0.80	2.5%	1.67	1.71	2.4%
1226015097	3/19/2020	1.11	1.16	4.4%	1.81	1.89	4.3%
1226025084	3/20/2020	0.16	0.16	0.0%	1.15	1.27	9.9%
1226025062	3/20/2020	0.27	0.27	0.0%	0.91	0.92	1.1%
1226015061	3/20/2020	0.30	0.30	0.0%	0.47	0.45	4.3%
1226015044	3/20/2020	1.03	1.03	0.0%	1.78	1.79	0.6%
1226015322	3/31/2020	0.09	0.08	11.8%	0.12	0.12	0.0%
1226015223	3/31/2020	0.10	0.09	10.5%	0.48	0.46	4.3%
1227042030	3/31/2020	0.16	0.16	0.0%	1.83	2.03	10.4%
1226015068	3/31/2020	0.18	0.18	0.0%	0.97	0.95	2.1%
1227042105	3/31/2020	0.19	0.18	5.4%	1.61	1.69	4.8%
1226015012	3/31/2020	0.20	0.19	5.1%	0.30	0.32	6.5%
1227042075	3/31/2020	0.19	0.19	0.0%	1.93	1.90	1.6%
1226015371	3/31/2020	0.20	0.19	5.1%	2.08	2.01	3.4%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1226015267	3/31/2020	0.19	0.20	5.1%	2.43	2.39	1.7%
1226015110	3/31/2020	0.19	0.22	14.6%	0.64	0.66	3.1%
1227042139	3/31/2020	0.23	0.22	4.4%	1.51	1.53	1.3%
1227042095	3/31/2020	0.22	0.23	4.4%	0.76	0.75	1.3%
1227042108	3/31/2020	0.23	0.24	4.3%	0.96	1.12	15.4%
1227042142	3/31/2020	0.27	0.27	0.0%	1.18	1.15	2.6%
1226015131	3/31/2020	0.25	0.28	11.3%	0.35	0.33	5.9%
1227042017	3/31/2020	0.27	0.28	3.6%	1.70	1.63	4.2%
1226015306	3/31/2020	0.27	0.29	7.1%	0.54	0.53	1.9%
1227042045	3/31/2020	0.33	0.34	3.0%	0.45	0.46	2.2%
1226015368	3/31/2020	0.32	0.34	6.1%	2.84	2.85	0.4%
1227030110	3/31/2020	0.39	0.39	0.0%	1.43	1.34	6.5%
1227030025	3/31/2020	0.41	0.42	2.4%	2.18	2.20	0.9%
1227030017	3/31/2020	0.49	0.48	2.1%	2.25	2.29	1.8%
1227030102	3/31/2020	0.64	0.64	0.0%	2.26	2.27	0.4%
1226015007	4/2/2020	0.12	0.11	8.7%	1.84	1.84	0.0%
1227042188	4/2/2020	0.17	0.19	11.1%	1.90	2.12	10.9%
1226015116	4/2/2020	0.23	0.22	4.4%	2.11	2.12	0.5%
1227042057	4/2/2020	0.34	0.33	3.0%	0.71	0.68	4.3%
1226015164	4/2/2020	0.34	0.35	2.9%	1.90	1.92	1.0%
1226016254	4/3/2020	0.08	0.08	0.0%	0.08	0.08	0.0%
1226016316	4/3/2020	0.09	0.08	11.8%	0.10	0.11	9.5%
1226016173	4/3/2020	0.11	0.09	20.0%	2.62	2.66	1.5%
1227042228	4/3/2020	0.11	0.11	0.0%	2.18	2.21	1.4%
1226016142	4/3/2020	0.13	0.14	7.4%	0.13	0.15	14.3%
1226016278	4/3/2020	0.15	0.14	6.9%	3.00	2.82	6.2%
1227042122	4/3/2020	0.15	0.15	0.0%	1.46	1.40	4.2%
1227042197	4/3/2020	0.22	0.20	9.5%	1.61	1.66	3.1%
1226016292	4/3/2020	0.21	0.20	4.9%	3.20	3.27	2.2%
1226016335	4/3/2020	0.20	0.22	9.5%	2.15	2.15	0.0%
1226016185	4/3/2020	0.23	0.23	0.0%	3.05	3.02	1.0%
1226016160	4/3/2020	0.23	0.24	4.3%	1.14	1.11	2.7%
1227042132	4/3/2020	0.24	0.24	0.0%	1.58	1.51	4.5%
1226016114	4/4/2020	0.07	0.06	15.4%	2.55	2.39	6.5%
1226016209	4/4/2020	0.08	0.08	0.0%	1.72	1.62	6.0%
1226016119	4/4/2020	0.09	0.09	0.0%	2.34	2.33	0.4%
1226016086	4/4/2020	0.11	0.13	16.7%	0.20	0.22	9.5%
1226016243	4/4/2020	0.25	0.23	8.3%	2.09	2.02	3.4%
1226016132	4/4/2020	0.27	0.27	0.0%	1.94	1.95	0.5%
1232012156	4/4/2020	0.39	0.40	2.5%	0.43	0.42	2.4%
1232012331	4/4/2020	0.39	0.40	2.5%	0.76	0.79	3.9%
1226016078	4/5/2020	0.09	0.09	0.0%	0.12	0.11	8.7%
1226017219	4/5/2020	0.10	0.10	0.0%	1.99	1.97	1.0%
1226017122	4/5/2020	0.12	0.12	0.0%	2.13	2.15	0.9%
1232012033	4/5/2020	0.15	0.15	0.0%	0.36	0.35	2.8%
1226017243	4/5/2020	0.17	0.15	12.5%	2.24	2.20	1.8%
1232012044	4/5/2020	0.14	0.16	13.3%	0.10	0.11	9.5%
1226016058	4/5/2020	0.17	0.16	6.1%	1.10	1.06	3.7%
1226017437	4/5/2020	0.16	0.16	0.0%	3.13	3.18	1.6%
1226017169	4/5/2020	0.17	0.17	0.0%	1.63	1.69	3.6%
1226017018	4/5/2020	0.13	0.17	26.7%	2.18	2.19	0.5%
1226017450	4/5/2020	0.17	0.17	0.0%	2.85	2.94	3.1%
1226017438	4/5/2020	0.15	0.17	12.5%	3.35	3.39	1.2%
1226017271	4/5/2020	0.18	0.18	0.0%	2.75	2.79	1.4%
1226017119	4/5/2020	0.18	0.19	5.4%	2.55	2.82	10.1%
1232012042	4/5/2020	0.22	0.22	0.0%	0.10	0.11	9.5%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1226016071	4/5/2020	0.22	0.22	0.0%	2.26	2.30	1.8%
1226017092	4/5/2020	0.22	0.23	4.4%	0.97	0.96	1.0%
1226017238	4/5/2020	0.26	0.25	3.9%	2.52	2.40	4.9%
1232012114	4/5/2020	0.28	0.26	7.4%	0.12	0.12	0.0%
1226017060	4/5/2020	0.25	0.26	3.9%	1.30	1.35	3.8%
1232012281	4/5/2020	0.30	0.29	3.4%	0.22	0.22	0.0%
1226017062	4/5/2020	0.29	0.29	0.0%	1.00	1.00	0.0%
1226017014	4/5/2020	0.31	0.31	0.0%	2.25	2.25	0.0%
1232012124	4/5/2020	0.33	0.34	3.0%	0.69	0.67	2.9%
1232012029	4/5/2020	0.36	0.36	0.0%	1.18	1.14	3.4%
1226017036	4/5/2020	0.34	0.40	16.2%	2.29	2.32	1.3%
1232012204	4/5/2020	0.46	0.43	6.7%	0.48	0.44	8.7%
1226017142	4/5/2020	0.45	0.46	2.2%	1.88	1.88	0.0%
1226016035	4/5/2020	0.57	0.55	3.6%	1.03	1.07	3.8%
1226017353	4/7/2020	0.21	0.21	0.0%	2.26	2.33	3.1%
1226017378	4/7/2020	0.26	0.25	3.9%	2.25	2.22	1.3%
1226020091	4/7/2020	0.27	0.26	3.8%	0.86	0.88	2.3%
1226020095	4/7/2020	0.29	0.28	3.5%	1.73	1.75	1.1%
1226017307	4/8/2020	0.21	0.22	4.7%	2.60	2.55	1.9%
1226017421	4/8/2020	0.23	0.24	4.3%	3.37	3.32	1.5%
1226017210	4/8/2020	0.28	0.27	3.6%	2.73	2.70	1.1%
1226020085	4/8/2020	0.28	0.28	0.0%	0.08	0.08	0.0%
1226017261	4/8/2020	0.26	0.28	7.4%	2.51	2.54	1.2%
1226020143	4/9/2020	0.10	0.10	0.0%	1.01	1.02	1.0%
1226020204	4/9/2020	0.12	0.13	8.0%	0.09	0.09	0.0%
1226020705	4/9/2020	0.17	0.18	5.7%	3.97	4.09	3.0%
1226017359	4/9/2020	0.17	0.18	5.7%	5.42	5.39	0.6%
1226017208	4/9/2020	0.23	0.22	4.4%	1.09	1.07	1.9%
1226020185	4/9/2020	0.22	0.22	0.0%	4.20	4.32	2.8%
1226017003	4/9/2020	0.28	0.26	7.4%	1.37	1.36	0.7%
1226017152	4/9/2020	0.33	0.32	3.1%	0.68	0.68	0.0%
1226020061	4/9/2020	0.33	0.34	3.0%	1.86	1.83	1.6%
1226020071	4/9/2020	0.52	0.52	0.0%	1.06	1.07	0.9%
1225002248	4/9/2020	0.60	0.60	0.0%	2.02	1.91	5.6%
1225002292	4/9/2020	0.76	0.74	2.7%	2.43	2.39	1.7%
1225002362	4/9/2020	0.76	0.77	1.3%	1.72	1.73	0.6%
1225002287	4/9/2020	1.00	1.00	0.0%	1.89	1.91	1.1%
1226020189	4/9/2020	1.10	1.09	0.9%	1.90	1.88	1.1%
1226020326	4/10/2020	0.05	0.05	0.0%	0.16	0.15	6.5%
1226020325	4/10/2020	0.08	0.08	0.0%	0.46	0.47	2.2%
1225002394	4/10/2020	0.10	0.10	0.0%	0.99	1.03	4.0%
1226020156	4/10/2020	0.09	0.11	20.0%	1.12	1.13	0.9%
1226017022	4/10/2020	0.18	0.17	5.7%	1.43	1.41	1.4%
1225002263	4/10/2020	0.34	0.34	0.0%	1.30	1.27	2.3%
1226017129	4/10/2020	0.35	0.35	0.0%	1.48	1.43	3.4%
1226020245	4/10/2020	0.44	0.44	0.0%	3.03	3.03	0.0%
1225002272	4/10/2020	0.52	0.51	1.9%	1.30	1.31	0.8%
1226020504	4/10/2020	0.65	0.65	0.0%	2.22	2.22	0.0%
1225002257	4/10/2020	0.70	0.71	1.4%	2.30	2.30	0.0%
1225002349	4/10/2020	0.76	0.76	0.0%	1.82	1.82	0.0%
1225002315	4/10/2020	0.77	0.76	1.3%	2.35	2.41	2.5%
1226020394	4/10/2020	0.77	0.76	1.3%	2.76	2.80	1.4%
1226020329	4/10/2020	0.77	0.77	0.0%	1.85	1.84	0.5%
1226020482	4/10/2020	0.90	0.90	0.0%	1.60	1.60	0.0%
1226020581	4/10/2020	0.93	0.93	0.0%	1.76	1.78	1.1%
1225002256	4/10/2020	0.98	0.98	0.0%	1.94	1.99	2.5%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1225002253	4/10/2020	1.09	1.03	5.7%	1.89	1.82	3.8%
1225002027	4/11/2020	0.21	0.20	4.9%	2.69	2.72	1.1%
1225002035	4/11/2020	0.20	0.20	0.0%	4.05	4.00	1.2%
1226017281	4/11/2020	0.21	0.22	4.7%	1.88	1.90	1.1%
1225002008	4/11/2020	0.22	0.22	0.0%	2.31	2.22	4.0%
1226017081	4/11/2020	0.24	0.24	0.0%	1.65	1.56	5.6%
1225002020	4/11/2020	0.29	0.28	3.5%	2.70	2.68	0.7%
1225002129	4/11/2020	0.30	0.30	0.0%	2.74	2.80	2.2%
1225002177	4/11/2020	0.33	0.34	3.0%	2.10	2.20	4.7%
1225002077	4/11/2020	0.42	0.41	2.4%	2.52	2.61	3.5%
1225002155	4/11/2020	0.43	0.42	2.4%	2.70	2.71	0.4%
1225002090	4/11/2020	0.49	0.48	2.1%	2.67	2.70	1.1%
1225002153	4/11/2020	0.51	0.51	0.0%	2.11	2.14	1.4%
1225002042	4/11/2020	0.52	0.53	1.9%	2.18	2.15	1.4%
1225002091	4/11/2020	0.63	0.63	0.0%	2.41	2.35	2.5%
1225002206	4/11/2020	0.84	0.84	0.0%	1.73	1.65	4.7%
1226020369	4/12/2020	0.16	0.14	13.3%	1.69	1.72	1.8%
1226020265	4/12/2020	0.16	0.17	6.1%	1.25	1.24	0.8%
1226020442	4/12/2020	0.22	0.22	0.0%	2.49	2.35	5.8%
1226020470	4/12/2020	0.28	0.29	3.5%	0.08	0.09	11.8%
1226020344	4/12/2020	0.58	0.57	1.7%	1.56	1.54	1.3%
1226020384	4/12/2020	0.60	0.61	1.7%	1.85	1.84	0.5%
1226020213	4/12/2020	1.02	0.99	3.0%	1.78	1.74	2.3%
1226020431	4/12/2020	1.05	1.08	2.8%	1.46	1.50	2.7%
1226020300	4/12/2020	1.15	1.13	1.8%	1.82	1.77	2.8%
1226020601	4/13/2020	0.12	0.10	18.2%	0.10	0.09	10.5%
1226020599	4/13/2020	0.16	0.14	13.3%	0.11	0.10	9.5%
1226024134	4/13/2020	0.22	0.20	9.5%	1.40	1.33	5.1%
1226024050	4/13/2020	0.21	0.20	4.9%	1.98	1.89	4.7%
1226024138	4/13/2020	0.26	0.26	0.0%	1.92	2.02	5.1%
1234099037	4/13/2020	0.28	0.27	3.6%	0.90	0.85	5.7%
1226024144	4/13/2020	0.28	0.28	0.0%	1.72	1.77	2.9%
1226020618	4/13/2020	0.30	0.29	3.4%	0.73	0.68	7.1%
1226024004	4/13/2020	0.32	0.34	6.1%	1.30	1.28	1.6%
1226020525	4/13/2020	0.35	0.35	0.0%	0.33	0.34	3.0%
1226024152	4/13/2020	0.40	0.41	2.5%	1.09	1.16	6.2%
1226024143	4/13/2020	0.46	0.43	6.7%	1.58	1.45	8.6%
1226024042	4/13/2020	0.45	0.49	8.5%	1.67	1.66	0.6%
1226020597	4/13/2020	0.49	0.50	2.0%	1.70	1.72	1.2%
1234099048	4/13/2020	0.61	0.59	3.3%	0.42	0.42	0.0%
1226024162	4/13/2020	0.69	0.69	0.0%	1.18	1.10	7.0%
1226020512	4/13/2020	1.28	1.25	2.4%	2.02	2.02	0.0%
1226020513	4/13/2020	1.31	1.36	3.7%	2.22	2.24	0.9%
1226020037	4/14/2020	0.08	0.09	11.8%	1.11	1.10	0.9%
1226024021	4/14/2020	0.15	0.14	6.9%	1.69	1.74	2.9%
1226024066	4/14/2020	0.18	0.17	5.7%	1.90	1.90	0.0%
1225002444	4/14/2020	0.27	0.24	11.8%	0.38	0.37	2.7%
1225002398	4/14/2020	0.25	0.24	4.1%	1.56	1.52	2.6%
1226024089	4/14/2020	0.27	0.28	3.6%	0.82	0.85	3.6%
1225002460	4/14/2020	0.27	0.29	7.1%	2.36	2.39	1.3%
1225002406	4/14/2020	0.38	0.37	2.7%	0.92	0.86	6.7%
1225002438	4/14/2020	0.40	0.39	2.5%	0.84	0.83	1.2%
1225002526	4/14/2020	0.84	0.86	2.4%	2.41	2.36	2.1%
1226021509	4/15/2020	0.22	0.20	9.5%	1.02	1.09	6.6%
1226021068	4/15/2020	0.24	0.23	4.3%	2.71	2.54	6.5%
1226021498	4/15/2020	0.25	0.25	0.0%	1.01	1.03	2.0%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1226021525	4/15/2020	0.55	0.51	7.5%	0.97	0.99	2.0%
1226021475	4/16/2020	0.14	0.14	0.0%	1.74	1.63	6.5%
1226021474	4/16/2020	0.18	0.20	10.5%	1.63	1.68	3.0%
1226021020	4/16/2020	0.22	0.22	0.0%	2.06	2.10	1.9%
1226021464	4/16/2020	0.25	0.26	3.9%	1.74	1.73	0.6%
1226021021	4/16/2020	0.28	0.27	3.6%	2.96	3.02	2.0%
1226021480	4/16/2020	0.34	0.33	3.0%	1.80	1.76	2.2%
1226021040	4/16/2020	0.72	0.72	0.0%	1.38	1.46	5.6%
1226021377	4/17/2020	0.04	0.04	0.0%	1.65	1.59	3.7%
1226021320	4/17/2020	0.10	0.11	9.5%	2.41	2.40	0.4%
1226021341	4/17/2020	0.15	0.16	6.5%	1.61	1.66	3.1%
1226021346	4/17/2020	0.17	0.16	6.1%	2.14	2.10	1.9%
1226021359	4/17/2020	0.16	0.18	11.8%	1.69	1.74	2.9%
1226021191	4/17/2020	0.17	0.18	5.7%	2.00	1.96	2.0%
1226021148	4/17/2020	0.20	0.19	5.1%	1.47	1.43	2.8%
1226021166	4/17/2020	0.17	0.19	11.1%	1.66	1.69	1.8%
1226021352	4/17/2020	0.19	0.19	0.0%	2.31	2.33	0.9%
1226021372	4/17/2020	0.20	0.20	0.0%	2.38	2.42	1.7%
1226021182	4/17/2020	0.25	0.25	0.0%	1.34	1.54	13.9%
1226021134	4/17/2020	0.26	0.26	0.0%	1.28	1.31	2.3%
1226021306	4/17/2020	0.27	0.29	7.1%	1.15	1.17	1.7%
1226021295	4/17/2020	0.36	0.36	0.0%	1.82	1.74	4.5%
1226021356	4/17/2020	0.42	0.39	7.4%	1.60	1.56	2.5%
1225002518	4/17/2020	0.64	0.61	4.8%	2.40	2.36	1.7%
1225002501	4/17/2020	0.76	0.74	2.7%	1.69	1.65	2.4%
1226029038	4/18/2020	0.18	0.17	5.7%	2.89	2.87	0.7%
1226021428	4/18/2020	0.19	0.20	5.1%	1.97	1.89	4.1%
1226029136	4/18/2020	0.32	0.31	3.2%	1.42	1.54	8.1%
1226029074	4/18/2020	0.32	0.34	6.1%	2.09	2.22	6.0%
1226029055	4/18/2020	0.38	0.37	2.7%	1.36	1.31	3.7%
1226029071	4/18/2020	0.41	0.43	4.8%	1.57	1.62	3.1%
1226029064	4/18/2020	0.44	0.44	0.0%	1.42	1.40	1.4%
1226029067	4/18/2020	0.50	0.52	3.9%	1.41	1.38	2.2%
1226021380	4/18/2020	0.58	0.58	0.0%	0.73	0.81	10.4%
1226021417	4/19/2020	0.29	0.31	6.7%	2.13	2.17	1.9%
1226021115	4/20/2020	0.19	0.19	0.0%	1.39	1.41	1.4%
1226021206	4/20/2020	0.19	0.19	0.0%	1.73	1.69	2.3%
1226021080	4/20/2020	0.20	0.20	0.0%	1.07	1.16	8.1%
1226021222	4/20/2020	0.21	0.21	0.0%	1.39	1.38	0.7%
1226021287	4/20/2020	0.22	0.22	0.0%	1.52	1.55	2.0%
1226021123	4/20/2020	0.24	0.22	8.7%	1.84	1.59	14.6%
1226021203	4/20/2020	0.25	0.23	8.3%	1.45	1.48	2.0%
1226021197	4/20/2020	0.25	0.25	0.0%	2.05	1.98	3.5%
1226021104	4/20/2020	0.29	0.29	0.0%	1.37	1.39	1.4%
1226021094	4/20/2020	0.32	0.34	6.1%	1.41	1.33	5.8%
1226029036	4/21/2020	0.18	0.17	5.7%	2.63	2.64	0.4%
1226029091	4/21/2020	0.28	0.28	0.0%	1.48	1.45	2.0%
1226019358	4/21/2020	0.89	0.88	1.1%	2.13	2.12	0.5%
1226008152	4/22/2020	0.11	0.11	0.0%	3.11	3.09	0.6%
1226008211	4/22/2020	0.14	0.15	6.9%	1.96	1.99	1.5%
1226008173	4/22/2020	0.20	0.20	0.0%	1.55	1.50	3.3%
1226008073	4/22/2020	0.32	0.33	3.1%	1.76	1.80	2.2%
1226008078	4/22/2020	0.36	0.36	0.0%	1.95	1.94	0.5%
1226008007	4/22/2020	0.49	0.49	0.0%	1.42	1.45	2.1%
1226008013	4/22/2020	0.52	0.52	0.0%	1.68	1.67	0.6%
1226008156	4/22/2020	0.57	0.57	0.0%	1.89	1.92	1.6%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1226019316	4/22/2020	0.62	0.63	1.6%	1.64	1.69	3.0%
1226019326	4/22/2020	1.29	1.33	3.1%	2.76	2.85	3.2%
1226019299	4/23/2020	0.16	0.15	6.5%	3.57	3.58	0.3%
1226008282	4/23/2020	0.17	0.16	6.1%	1.77	1.85	4.4%
1226019298	4/23/2020	0.20	0.20	0.0%	2.14	2.14	0.0%
1226008398	4/23/2020	0.22	0.22	0.0%	1.40	1.58	12.1%
1226008255	4/23/2020	0.23	0.22	4.4%	1.93	1.91	1.0%
1226008131	4/23/2020	0.25	0.24	4.1%	2.21	2.14	3.2%
1226019283	4/23/2020	0.26	0.26	0.0%	0.13	0.12	8.0%
1226019295	4/23/2020	0.28	0.28	0.0%	1.80	1.75	2.8%
1226008135	4/23/2020	0.33	0.33	0.0%	1.98	1.99	0.5%
1226008409	4/23/2020	0.35	0.34	2.9%	1.15	1.14	0.9%
1226008265	4/23/2020	0.37	0.37	0.0%	1.07	1.07	0.0%
1226008120	4/23/2020	0.40	0.40	0.0%	1.59	1.68	5.5%
1226019163	4/23/2020	0.39	0.40	2.5%	2.60	2.60	0.0%
1226019247	4/23/2020	0.57	0.57	0.0%	2.28	2.30	0.9%
1226008106	4/23/2020	0.61	0.61	0.0%	0.90	0.96	6.5%
1226019234	4/23/2020	0.60	0.62	3.3%	2.08	2.06	1.0%
1226008124	4/23/2020	0.66	0.65	1.5%	0.76	0.77	1.3%
1226008101	4/23/2020	1.29	1.32	2.3%	0.45	0.44	2.2%
1226019023	4/24/2020	0.20	0.19	5.1%	0.10	0.10	0.0%
1226019017	4/24/2020	0.27	0.26	3.8%	0.22	0.22	0.0%
1225001198	4/24/2020	0.29	0.28	3.5%	0.40	0.40	0.0%
1225001091	4/24/2020	0.35	0.34	2.9%	1.59	1.62	1.9%
1226019101	4/24/2020	0.35	0.35	0.0%	0.37	0.34	8.5%
1225001158	4/24/2020	0.47	0.48	2.1%	1.37	1.41	2.9%
1226019046	4/24/2020	0.65	0.65	0.0%	1.84	1.92	4.3%
1226019184	4/24/2020	0.69	0.67	2.9%	2.11	2.05	2.9%
1226019031	4/24/2020	0.69	0.69	0.0%	1.76	1.79	1.7%
1226019083	4/24/2020	0.97	0.97	0.0%	2.31	2.39	3.4%
1226008086	4/25/2020	0.18	0.17	5.7%	4.33	4.34	0.2%
1226008331	4/25/2020	0.25	0.26	3.9%	1.95	1.90	2.6%
1226008035	4/25/2020	0.32	0.33	3.1%	1.99	2.03	2.0%
1226019153	4/25/2020	0.40	0.40	0.0%	2.33	2.32	0.4%
1226008141	4/25/2020	0.51	0.52	1.9%	0.85	0.85	0.0%
1226019069	4/25/2020	0.65	0.66	1.5%	2.41	2.44	1.2%
1225001229	4/26/2020	0.19	0.19	0.0%	0.89	0.90	1.1%
1225001173	4/26/2020	0.30	0.31	3.3%	1.20	1.22	1.7%
1225001102	4/26/2020	0.43	0.42	2.4%	2.70	2.68	0.7%
1225001006	4/26/2020	0.40	0.43	7.2%	1.94	1.95	0.5%
1225001001	4/26/2020	0.48	0.53	9.9%	1.77	1.86	5.0%
1225001002	4/26/2020	0.51	0.54	5.7%	1.85	1.91	3.2%
1225001413	4/26/2020	0.51	0.55	7.5%	1.59	1.70	6.7%
1225001062	4/26/2020	0.54	0.58	7.1%	1.94	2.00	3.0%
1225003196	4/27/2020	0.12	0.12	0.0%	0.33	0.31	6.3%
1225003223	4/27/2020	0.15	0.14	6.9%	0.40	0.52	26.1%
1226019113	4/27/2020	0.17	0.17	0.0%	1.53	1.48	3.3%
1226019120	4/27/2020	0.17	0.18	5.7%	1.94	1.92	1.0%
1226008291	4/27/2020	0.19	0.22	14.6%	2.10	2.09	0.5%
1226008303	4/27/2020	0.23	0.24	4.3%	2.91	2.95	1.4%
1225001078	4/27/2020	0.26	0.28	7.4%	2.02	2.04	1.0%
1225001148	4/27/2020	0.29	0.29	0.0%	2.36	2.32	1.7%
1226019201	4/27/2020	0.31	0.30	3.3%	1.01	0.98	3.0%
1225001175	4/27/2020	0.42	0.42	0.0%	2.14	2.12	0.9%
1225003234	4/27/2020	0.52	0.54	3.8%	0.47	0.46	2.2%
1225001076	4/27/2020	0.82	0.81	1.2%	2.08	2.10	1.0%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1225001217	4/27/2020	0.95	0.94	1.1%	2.43	2.42	0.4%
1226018190	4/30/2020	0.20	0.19	5.1%	2.02	2.09	3.4%
1226018245	4/30/2020	0.20	0.23	14.0%	1.55	1.67	7.5%
1226018225	4/30/2020	0.22	0.23	4.4%	3.14	3.00	4.6%
1226018170	4/30/2020	0.24	0.23	4.3%	3.47	3.13	10.3%
1226018008	4/30/2020	0.25	0.27	7.7%	1.71	1.62	5.4%
1226018027	4/30/2020	0.27	0.27	0.0%	1.65	1.65	0.0%
1225001039	4/30/2020	0.23	0.27	16.0%	2.26	2.07	8.8%
1225001024	4/30/2020	0.29	0.29	0.0%	2.08	2.15	3.3%
1226026082	4/30/2020	0.29	0.30	3.4%	1.80	1.79	0.6%
1226026126	4/30/2020	0.35	0.35	0.0%	2.29	2.11	8.2%
1226018233	4/30/2020	0.34	0.36	5.7%	1.11	1.08	2.7%
1226026055	4/30/2020	0.35	0.36	2.8%	8.67	8.52	1.7%
1226026073	4/30/2020	0.39	0.38	2.6%	2.28	2.26	0.9%
1226018154	4/30/2020	0.39	0.39	0.0%	1.27	1.32	3.9%
1226026120	4/30/2020	0.38	0.39	2.6%	1.38	1.36	1.5%
1226026104	4/30/2020	0.41	0.40	2.5%	4.83	4.68	3.2%
1226018178	4/30/2020	0.42	0.42	0.0%	1.26	1.20	4.9%
1225001030	4/30/2020	0.41	0.42	2.4%	1.84	1.89	2.7%
1226026133	4/30/2020	0.47	0.49	4.2%	1.53	1.53	0.0%
1225001056	4/30/2020	0.50	0.49	2.0%	2.26	2.18	3.6%
1226026099	4/30/2020	0.62	0.56	10.2%	1.49	1.33	11.3%
1226026014	4/30/2020	0.68	0.65	4.5%	2.62	2.56	2.3%
1225003120	5/1/2020	0.10	0.11	9.5%	0.28	0.25	11.3%
1225003165	5/1/2020	0.14	0.14	0.0%	0.33	0.32	3.1%
1225003154	5/1/2020	0.15	0.15	0.0%	0.38	0.40	5.1%
1225003139	5/1/2020	0.17	0.15	12.5%	0.52	0.47	10.1%
1226027167	5/1/2020	0.19	0.17	11.1%	1.70	1.67	1.8%
1226027183	5/1/2020	0.20	0.20	0.0%	2.21	2.32	4.9%
1226027003	5/1/2020	0.22	0.22	0.0%	1.72	1.79	4.0%
1226027171	5/1/2020	0.21	0.23	9.1%	1.14	1.12	1.8%
1225003179	5/1/2020	0.26	0.26	0.0%	0.65	0.65	0.0%
1226018147	5/1/2020	0.29	0.29	0.0%	1.70	1.56	8.6%
1226026114	5/1/2020	0.37	0.33	11.4%	1.49	1.48	0.7%
1226027232	5/1/2020	0.33	0.33	0.0%	2.20	2.21	0.5%
1226018151	5/1/2020	0.32	0.35	9.0%	1.76	1.88	6.6%
1226027239	5/1/2020	0.37	0.37	0.0%	1.14	1.14	0.0%
1226018238	5/1/2020	0.40	0.41	2.5%	0.59	0.58	1.7%
1226027179	5/1/2020	0.60	0.56	6.9%	1.10	1.06	3.7%
1233004161	5/2/2020	0.28	0.27	3.6%	0.25	0.24	4.1%
1233004189	5/2/2020	0.31	0.30	3.3%	0.50	0.47	6.2%
1233004151	5/2/2020	0.48	0.47	2.1%	0.44	0.40	9.5%
1225003107	5/3/2020	0.23	0.24	4.3%	0.23	0.24	4.3%
1226018049	5/3/2020	0.25	0.24	4.1%	1.37	1.31	4.5%
1226018086	5/3/2020	0.26	0.24	8.0%	2.19	2.25	2.7%
1225003092	5/3/2020	0.27	0.26	3.8%	1.29	1.35	4.5%
1226027154	5/3/2020	0.29	0.27	7.1%	1.48	1.36	8.5%
1233004133	5/3/2020	0.25	0.30	18.2%	0.32	0.39	19.7%
1226018073	5/3/2020	0.33	0.32	3.1%	2.09	2.14	2.4%
1226027139	5/3/2020	0.44	0.40	9.5%	2.72	2.59	4.9%
1233004139	5/3/2020	0.43	0.43	0.0%	0.46	0.57	21.4%
1225003089	5/3/2020	0.53	0.48	9.9%	1.10	0.98	11.5%
1225006438	5/4/2020	0.19	0.19	0.0%	2.75	2.75	0.0%
1225003061	5/4/2020	0.22	0.21	4.7%	0.35	0.35	0.0%
1225006619	5/4/2020	0.21	0.22	4.7%	5.94	6.02	1.3%
1225003014	5/4/2020	0.24	0.23	4.3%	0.52	0.52	0.0%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1226018112	5/4/2020	0.24	0.24	0.0%	3.08	3.10	0.6%
1226027077	5/4/2020	0.26	0.27	3.8%	1.62	1.67	3.0%
1225003003	5/4/2020	0.28	0.28	0.0%	0.63	0.59	6.6%
1226018110	5/4/2020	0.30	0.31	3.3%	1.56	1.57	0.6%
1225003055	5/4/2020	0.32	0.32	0.0%	0.38	0.38	0.0%
1225006445	5/4/2020	0.38	0.38	0.0%	3.82	3.80	0.5%
1225006607	5/4/2020	0.47	0.46	2.2%	2.10	2.05	2.4%
1225003037	5/4/2020	0.51	0.50	2.0%	0.23	0.25	8.3%
1225003300	5/4/2020	0.58	0.57	1.7%	0.32	0.32	0.0%
1225003009	5/4/2020	0.97	0.96	1.0%	0.32	0.34	6.1%
1225006325	5/5/2020	0.16	0.15	6.5%	0.24	0.23	4.3%
1225003278	5/5/2020	0.19	0.18	5.4%	0.60	0.62	3.3%
1226009117	5/5/2020	0.24	0.24	0.0%	1.07	1.07	0.0%
1226009026	5/5/2020	0.28	0.27	3.6%	1.46	1.37	6.4%
1225006304	5/5/2020	0.27	0.27	0.0%	3.45	3.47	0.6%
1226009013	5/5/2020	0.30	0.29	3.4%	0.68	0.68	0.0%
1226009058	5/5/2020	0.37	0.38	2.7%	1.55	1.52	2.0%
1225006331	5/5/2020	0.41	0.40	2.5%	1.98	1.90	4.1%
1226009019	5/5/2020	0.46	0.46	0.0%	1.30	1.19	8.8%
1225003289	5/5/2020	0.49	0.48	2.1%	0.24	0.23	4.3%
1225006361	5/5/2020	0.54	0.57	5.4%	2.26	2.25	0.4%
1226009048	5/5/2020	0.58	0.58	0.0%	1.42	1.50	5.5%
1225003259	5/5/2020	0.75	0.75	0.0%	0.54	0.53	1.9%
1225006288	5/5/2020	0.76	0.76	0.0%	1.75	1.74	0.6%
1225006357	5/5/2020	0.78	0.79	1.3%	1.67	1.65	1.2%
1225006359	5/5/2020	0.77	0.80	3.8%	1.72	1.81	5.1%
1226009174	5/7/2020	0.24	0.24	0.0%	0.40	0.42	4.9%
1226027063	5/7/2020	0.24	0.24	0.0%	0.90	0.99	9.5%
1226009159	5/7/2020	0.26	0.26	0.0%	0.54	0.55	1.8%
1226009155	5/7/2020	0.31	0.31	0.0%	1.14	1.09	4.5%
1225006238	5/7/2020	0.35	0.35	0.0%	1.46	1.51	3.4%
1225006250	5/7/2020	0.36	0.36	0.0%	1.74	1.80	3.4%
1226009063	5/7/2020	0.37	0.37	0.0%	0.46	0.46	0.0%
1226027053	5/7/2020	0.45	0.45	0.0%	2.26	2.39	5.6%
1226027056	5/7/2020	0.59	0.59	0.0%	2.00	2.01	0.5%
1225006216	5/7/2020	0.95	0.95	0.0%	2.76	2.67	3.3%
1226009189	5/8/2020	0.17	0.18	5.7%	1.86	1.88	1.1%
1226009220	5/8/2020	0.20	0.19	5.1%	0.61	0.59	3.3%
1225006129	5/8/2020	0.20	0.20	0.0%	0.79	0.79	0.0%
1226009233	5/8/2020	0.25	0.26	3.9%	1.61	1.50	7.1%
1232013028	5/8/2020	0.31	0.30	3.3%	0.74	0.73	1.4%
1226009201	5/8/2020	0.30	0.31	3.3%	0.77	0.79	2.6%
1226027093	5/8/2020	0.34	0.33	3.0%	2.15	2.18	1.4%
1226009211	5/8/2020	0.41	0.40	2.5%	1.90	1.90	0.0%
1225006177	5/8/2020	0.45	0.44	2.2%	2.13	2.14	0.5%
1232013020	5/8/2020	0.45	0.45	0.0%	0.33	0.33	0.0%
1232013046	5/8/2020	0.46	0.45	2.2%	0.37	0.35	5.6%
1226009242	5/8/2020	0.44	0.46	4.4%	0.73	0.78	6.6%
1225006186	5/8/2020	0.52	0.52	0.0%	2.04	2.07	1.5%
1232013033	5/8/2020	0.63	0.64	1.6%	0.96	0.95	1.0%
1225006140	5/8/2020	0.66	0.67	1.5%	1.69	1.78	5.2%
1225006406	5/9/2020	0.53	0.52	1.9%	2.38	2.30	3.4%
1225006381	5/9/2020	0.74	0.74	0.0%	3.60	3.54	1.7%
1225006100	5/10/2020	0.12	0.12	0.0%	0.56	0.56	0.0%
1225009028	5/10/2020	0.21	0.19	10.0%	1.03	1.06	2.9%
1225009023	5/10/2020	0.21	0.21	0.0%	1.03	1.08	4.7%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1225009034	5/10/2020	0.27	0.22	20.4%	1.06	0.95	10.9%
1225006096	5/10/2020	0.24	0.24	0.0%	0.66	0.66	0.0%
1225009123	5/10/2020	0.28	0.27	3.6%	0.56	0.56	0.0%
1225009066	5/10/2020	0.38	0.37	2.7%	1.38	1.39	0.7%
1225006066	5/10/2020	0.41	0.40	2.5%	3.31	3.46	4.4%
1225009079	5/10/2020	0.40	0.41	2.5%	1.48	1.51	2.0%
1225009057	5/10/2020	0.49	0.48	2.1%	1.08	1.09	0.9%
1225009108	5/10/2020	0.49	0.48	2.1%	1.29	1.27	1.6%
1225006074	5/10/2020	0.54	0.52	3.8%	1.60	1.59	0.6%
1225006037	5/10/2020	0.54	0.53	1.9%	1.65	1.66	0.6%
1225009051	5/10/2020	0.58	0.59	1.7%	1.29	1.25	3.1%
1225006011	5/10/2020	0.66	0.65	1.5%	1.99	1.93	3.1%
1225006057	5/10/2020	0.64	0.65	1.6%	2.24	2.30	2.6%
1225009096	5/10/2020	0.71	0.73	2.8%	1.49	1.52	2.0%
1225009132	5/10/2020	0.77	0.74	4.0%	1.80	1.67	7.5%
1225006063	5/10/2020	1.01	1.00	1.0%	2.28	2.24	1.8%
1225009062	5/10/2020	1.05	1.06	0.9%	0.86	0.87	1.2%
1225006020	5/10/2020	1.07	1.10	2.8%	1.60	1.64	2.5%
1225009141	5/10/2020	1.38	1.31	5.2%	1.85	1.75	5.6%
1225009171	5/10/2020	2.69	2.60	3.4%	0.91	0.92	1.1%
1233005011	5/11/2020	0.24	0.24	0.0%	0.17	0.18	5.7%
1233004116	5/11/2020	0.29	0.30	3.4%	0.38	0.38	0.0%
1233004042	5/11/2020	0.31	0.31	0.0%	0.22	0.22	0.0%
1233005023	5/11/2020	0.38	0.39	2.6%	0.29	0.29	0.0%
1233004018	5/11/2020	0.43	0.41	4.8%	0.98	1.01	3.0%
1233004053	5/11/2020	0.43	0.44	2.3%	0.19	0.20	5.1%
1233004012	5/11/2020	0.46	0.45	2.2%	0.26	0.23	12.2%
1233005034	5/11/2020	0.50	0.50	0.0%	0.28	0.30	6.9%
1225009015	5/12/2020	0.14	0.20	35.3%	1.22	1.20	1.7%
1225009005	5/12/2020	0.57	0.59	3.4%	1.21	1.20	0.8%
1225009189	5/14/2020	0.06	0.06	0.0%	0.28	0.24	15.4%
1233006009	5/14/2020	0.17	0.16	6.1%	0.25	0.25	0.0%
1225004003	5/14/2020	0.17	0.17	0.0%	0.69	0.68	1.5%
1225004172	5/14/2020	0.18	0.19	5.4%	1.88	1.91	1.6%
1225004215	5/14/2020	0.21	0.20	4.9%	2.66	2.71	1.9%
1225004109	5/14/2020	0.24	0.23	4.3%	1.39	1.40	0.7%
1225004099	5/14/2020	0.25	0.23	8.3%	1.73	1.65	4.7%
1225004078	5/14/2020	0.22	0.23	4.4%	1.84	1.79	2.8%
1225004337	5/14/2020	0.22	0.23	4.4%	2.12	2.11	0.5%
1225004135	5/14/2020	0.22	0.23	4.4%	2.20	2.16	1.8%
1225004198	5/14/2020	0.23	0.23	0.0%	2.30	2.39	3.8%
1225004322	5/14/2020	0.24	0.24	0.0%	2.69	2.76	2.6%
1225004086	5/14/2020	0.30	0.28	6.9%	2.11	2.14	1.4%
1225004089	5/14/2020	0.29	0.29	0.0%	2.19	2.16	1.4%
1225004053	5/14/2020	0.30	0.30	0.0%	0.92	0.93	1.1%
1225004050	5/14/2020	0.31	0.31	0.0%	0.71	0.77	8.1%
1225004177	5/14/2020	0.31	0.31	0.0%	2.56	2.51	2.0%
1225009202	5/14/2020	0.31	0.33	6.3%	0.96	0.96	0.0%
1225004056	5/14/2020	0.24	0.35	37.3%	0.98	0.73	29.2%
1225004035	5/14/2020	0.31	0.35	12.1%	1.70	2.05	18.7%
1225004324	5/14/2020	0.36	0.35	2.8%	2.81	2.79	0.7%
1225004161	5/14/2020	0.38	0.37	2.7%	1.75	1.81	3.4%
1225004014	5/14/2020	0.38	0.37	2.7%	1.84	1.83	0.5%
1225005035	5/14/2020	0.56	0.55	1.8%	1.65	1.63	1.2%
1225009239	5/14/2020	0.53	0.56	5.5%	1.81	1.88	3.8%
1225005224	5/14/2020	0.66	0.66	0.0%	1.87	1.88	0.5%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1225005236	5/14/2020	0.66	0.71	7.3%	1.70	1.71	0.6%
1225005040	5/14/2020	0.78	0.75	3.9%	1.40	1.43	2.1%
1225005162	5/14/2020	0.78	0.79	1.3%	1.74	1.73	0.6%
1225009226	5/14/2020	0.94	0.96	2.1%	2.26	2.26	0.0%
1225005042	5/14/2020	1.05	1.04	1.0%	1.49	1.54	3.3%
1225005229	5/14/2020	1.20	1.17	2.5%	2.13	2.00	6.3%
1225007237	5/15/2020	0.16	0.16	0.0%	0.46	0.47	2.2%
1225007215	5/15/2020	0.19	0.19	0.0%	0.92	0.93	1.1%
1225004284	5/15/2020	0.23	0.22	4.4%	2.76	2.85	3.2%
1225005087	5/15/2020	0.23	0.23	0.0%	2.40	2.42	0.8%
1225007210	5/15/2020	0.31	0.26	17.5%	0.18	0.16	11.8%
1225005130	5/15/2020	0.29	0.28	3.5%	2.19	2.09	4.7%
1225005135	5/15/2020	0.28	0.29	3.5%	2.50	2.43	2.8%
1225007297	5/15/2020	0.31	0.33	6.3%	0.74	0.74	0.0%
1225007226	5/15/2020	0.36	0.34	5.7%	0.15	0.14	6.9%
1225005203	5/15/2020	0.34	0.36	5.7%	2.79	2.82	1.1%
1225007209	5/15/2020	0.33	0.37	11.4%	0.11	0.10	9.5%
1225005208	5/15/2020	0.39	0.38	2.6%	3.13	3.23	3.1%
1225005263	5/15/2020	0.42	0.42	0.0%	1.11	1.15	3.5%
1225004252	5/15/2020	0.45	0.45	0.0%	3.37	3.20	5.2%
1225005247	5/15/2020	0.52	0.51	1.9%	2.00	2.12	5.8%
1225005216	5/15/2020	0.52	0.52	0.0%	1.73	1.72	0.6%
1225005156	5/15/2020	0.53	0.59	10.7%	2.26	2.49	9.7%
1225005188	5/15/2020	0.67	0.72	7.2%	2.25	2.23	0.9%
1225007114	5/18/2020	0.18	0.17	5.7%	2.23	2.20	1.4%
1225007185	5/18/2020	0.23	0.22	4.4%	0.65	0.69	6.0%
1225007091	5/18/2020	0.25	0.25	0.0%	1.22	1.28	4.8%
1225005002	5/18/2020	0.26	0.26	0.0%	2.52	2.60	3.1%
1225005143	5/18/2020	0.25	0.26	3.9%	2.58	2.69	4.2%
1225007084	5/18/2020	0.26	0.28	7.4%	3.00	2.93	2.4%
1225007064	5/18/2020	0.32	0.30	6.5%	2.71	3.05	11.8%
1225007176	5/18/2020	0.34	0.42	21.1%	0.15	0.14	6.9%
1225007120	5/18/2020	0.43	0.44	2.3%	0.20	0.18	10.5%
1225007078	5/18/2020	0.57	0.58	1.7%	2.54	2.67	5.0%
1225007004	5/20/2020	0.19	0.18	5.4%	2.47	2.45	0.8%
1225007023	5/20/2020	0.19	0.19	0.0%	2.94	2.97	1.0%
1225007002	5/20/2020	0.23	0.23	0.0%	2.48	2.40	3.3%
1225007014	5/20/2020	0.27	0.28	3.6%	2.74	2.67	2.6%
1225007032	5/20/2020	0.35	0.34	2.9%	2.83	2.80	1.1%
1225007042	5/20/2020	0.44	0.45	2.2%	2.17	2.09	3.8%
1434002127	5/20/2020	1.29	1.35	4.5%	0.78	0.71	9.4%
1434002044	5/20/2020	2.18	2.22	1.8%	0.21	0.20	4.9%
1225014153	5/21/2020	0.15	0.15	0.0%	1.77	1.75	1.1%
1225014102	5/21/2020	0.20	0.19	5.1%	3.28	3.50	6.5%
1225014089	5/21/2020	0.21	0.22	4.7%	2.16	2.11	2.3%
1225014291	5/21/2020	0.25	0.24	4.1%	0.07	0.07	0.0%
1225014146	5/21/2020	0.24	0.24	0.0%	1.57	1.59	1.3%
1225014195	5/21/2020	0.23	0.25	8.3%	0.07	0.08	13.3%
1225014191	5/21/2020	0.29	0.28	3.5%	1.26	1.29	2.4%
1225014302	5/21/2020	0.34	0.32	6.1%	0.29	0.31	6.7%
1225014121	5/21/2020	0.33	0.32	3.1%	2.65	2.58	2.7%
1225014308	5/21/2020	0.33	0.33	0.0%	0.73	0.71	2.8%
1225014097	5/21/2020	0.37	0.36	2.7%	3.84	3.82	0.5%
1225014114	5/21/2020	0.38	0.37	2.7%	2.48	2.41	2.9%
1225014214	5/21/2020	0.49	0.48	2.1%	0.36	0.36	0.0%
1225014020	5/24/2020	0.11	0.12	8.7%	0.37	0.36	2.7%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1225014080	5/24/2020	0.23	0.21	9.1%	1.76	1.97	11.3%
1225014048	5/24/2020	0.25	0.25	0.0%	1.87	1.93	3.2%
1225008390	5/24/2020	0.20	0.25	22.2%	2.52	2.46	2.4%
1225014074	5/24/2020	0.26	0.26	0.0%	4.90	4.93	0.6%
1225014062	5/24/2020	0.30	0.29	3.4%	4.57	4.51	1.3%
1225014027	5/24/2020	0.30	0.30	0.0%	2.35	2.43	3.3%
1225008410	5/24/2020	0.31	0.31	0.0%	2.02	2.10	3.9%
1433001158	5/24/2020	0.33	0.33	0.0%	0.16	0.16	0.0%
1225007266	5/24/2020	0.33	0.33	0.0%	1.27	1.23	3.2%
1225008368	5/24/2020	0.38	0.37	2.7%	2.10	2.08	1.0%
1225008358	5/24/2020	0.34	0.38	11.1%	2.16	2.06	4.7%
1433001080	5/24/2020	0.80	0.79	1.3%	0.76	0.76	0.0%
1433001022	5/24/2020	1.58	1.58	0.0%	3.65	3.61	1.1%
1433001063	5/24/2020	1.66	1.64	1.2%	2.64	2.58	2.3%
1433001046	5/24/2020	1.78	1.74	2.3%	1.75	1.78	1.7%
1433001146	5/24/2020	1.77	1.82	2.8%	3.23	3.27	1.2%
1433001095	5/24/2020	1.88	1.84	2.2%	0.62	0.61	1.6%
1433001036	5/24/2020	1.89	1.90	0.5%	0.97	0.99	2.0%
1433001009	5/24/2020	1.96	1.99	1.5%	0.75	0.78	3.9%
1433001109	5/24/2020	2.10	2.09	0.5%	0.68	0.71	4.3%
1433001050	5/24/2020	2.04	2.18	6.6%	0.86	0.95	9.9%
1225017214	5/25/2020	0.12	0.11	8.7%	0.55	0.58	5.3%
1225008008	5/25/2020	0.19	0.19	0.0%	0.21	0.22	4.7%
1225017233	5/25/2020	0.13	0.19	37.5%	1.71	1.73	1.2%
1225017180	5/25/2020	0.21	0.19	10.0%	1.88	1.95	3.7%
1225017316	5/25/2020	0.21	0.20	4.9%	1.43	1.45	1.4%
1225008234	5/25/2020	0.20	0.21	4.9%	2.13	2.15	0.9%
1225008182	5/25/2020	0.25	0.23	8.3%	1.83	1.81	1.1%
1225008038	5/25/2020	0.26	0.24	8.0%	1.77	1.80	1.7%
1225017177	5/25/2020	0.25	0.26	3.9%	1.99	2.02	1.5%
1225017017	5/25/2020	0.26	0.27	3.8%	1.04	1.01	2.9%
1225008128	5/25/2020	0.25	0.27	7.7%	1.99	2.00	0.5%
1225017138	5/25/2020	0.28	0.28	0.0%	1.29	1.29	0.0%
1225017010	5/25/2020	0.26	0.28	7.4%	1.30	1.40	7.4%
1225008342	5/25/2020	0.29	0.28	3.5%	1.81	1.85	2.2%
1225008101	5/25/2020	0.30	0.29	3.4%	2.00	1.94	3.0%
1225017130	5/25/2020	0.32	0.31	3.2%	1.12	1.09	2.7%
1225008309	5/25/2020	0.30	0.31	3.3%	1.87	1.95	4.2%
1225008154	5/25/2020	0.33	0.32	3.1%	2.06	2.18	5.7%
1225017112	5/25/2020	0.34	0.34	0.0%	1.03	1.09	5.7%
1225008290	5/25/2020	0.34	0.34	0.0%	2.11	2.08	1.4%
1225008030	5/25/2020	0.37	0.34	8.5%	2.36	2.29	3.0%
1225008205	5/25/2020	0.38	0.37	2.7%	1.51	1.46	3.4%
1225008121	5/25/2020	0.40	0.40	0.0%	2.18	2.21	1.4%
1225008051	5/25/2020	0.46	0.45	2.2%	0.97	0.95	2.1%
1225017061	5/25/2020	0.44	0.46	4.4%	1.29	1.35	4.5%
1225008339	5/25/2020	0.50	0.51	2.0%	1.84	1.89	2.7%
1225008139	5/25/2020	0.55	0.56	1.8%	1.30	1.32	1.5%
1225008015	5/25/2020	0.25	0.94	116.0%	1.98	1.47	29.6%
1225011072	5/27/2020	0.25	0.22	12.8%	1.84	1.61	13.3%
1225008221	5/27/2020	0.22	0.22	0.0%	2.20	2.38	7.9%
1225008116	5/27/2020	0.25	0.23	8.3%	0.44	0.38	14.6%
1225011132	5/27/2020	0.23	0.23	0.0%	1.80	1.80	0.0%
1225011001	5/27/2020	0.25	0.25	0.0%	2.19	2.23	1.8%
1225011122	5/27/2020	0.26	0.27	3.8%	1.71	1.64	4.2%
1225008327	5/27/2020	0.30	0.30	0.0%	1.16	1.19	2.6%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1225011055	5/27/2020	0.37	0.35	5.6%	1.81	1.85	2.2%
1225008321	5/27/2020	0.37	0.38	2.7%	1.96	1.97	0.5%
1225011043	5/27/2020	0.44	0.47	6.6%	1.86	2.00	7.3%
1225008273	5/27/2020	0.50	0.50	0.0%	1.79	1.81	1.1%
1225012289	5/29/2020	0.12	0.11	8.7%	2.92	2.88	1.4%
1225012423	5/29/2020	0.16	0.15	6.5%	3.54	3.66	3.3%
1225017105	5/29/2020	0.16	0.16	0.0%	1.16	1.18	1.7%
1225012321	5/29/2020	0.18	0.16	11.8%	2.94	2.66	10.0%
1225012341	5/29/2020	0.19	0.17	11.1%	1.96	2.01	2.5%
1225017283	5/29/2020	0.18	0.19	5.4%	0.32	0.30	6.5%
1225012307	5/29/2020	0.22	0.23	4.4%	2.03	1.96	3.5%
1225017265	5/29/2020	0.24	0.24	0.0%	1.02	0.96	6.1%
1225017093	5/29/2020	0.22	0.24	8.7%	1.06	1.11	4.6%
1225012334	5/29/2020	0.22	0.24	8.7%	2.59	2.52	2.7%
1225012453	5/29/2020	0.24	0.25	4.1%	2.18	2.08	4.7%
1225012436	5/29/2020	0.25	0.25	0.0%	2.12	2.18	2.8%
1225012421	5/29/2020	0.25	0.26	3.9%	3.66	3.67	0.3%
1225017004	5/29/2020	0.31	0.29	6.7%	0.64	0.55	15.1%
1225017199	5/30/2020	0.14	0.14	0.0%	0.98	1.02	4.0%
1225012260	5/30/2020	0.15	0.15	0.0%	1.84	1.90	3.2%
1225012225	5/30/2020	0.16	0.16	0.0%	4.79	4.75	0.8%
1225017204	5/30/2020	0.17	0.17	0.0%	1.46	1.48	1.4%
1225012380	5/30/2020	0.19	0.17	11.1%	3.77	3.43	9.4%
1225012401	5/30/2020	0.19	0.19	0.0%	2.41	2.53	4.9%
1225012404	5/30/2020	0.17	0.19	11.1%	2.98	2.95	1.0%
1225017287	5/30/2020	0.23	0.22	4.4%	0.35	0.33	5.9%
1225017150	5/30/2020	0.24	0.23	4.3%	1.89	1.73	8.8%
1225012247	5/30/2020	0.23	0.23	0.0%	1.75	1.81	3.4%
1225012252	5/30/2020	0.23	0.24	4.3%	2.84	2.88	1.4%
1225012235	5/30/2020	0.26	0.26	0.0%	2.19	2.16	1.4%
1225012176	5/31/2020	0.08	0.09	11.8%	3.25	3.38	3.9%
1225012019	5/31/2020	0.12	0.13	8.0%	4.03	3.91	3.0%
1225020314	5/31/2020	0.16	0.14	13.3%	1.81	1.68	7.4%
1225012081	5/31/2020	0.17	0.15	12.5%	1.72	1.69	1.8%
1225012137	5/31/2020	0.15	0.16	6.5%	1.51	1.53	1.3%
1225012083	5/31/2020	0.17	0.17	0.0%	1.26	1.35	6.9%
1225012203	5/31/2020	0.22	0.21	4.7%	1.77	1.79	1.1%
1225012115	5/31/2020	0.22	0.24	8.7%	1.50	1.50	0.0%
1225012186	5/31/2020	0.26	0.26	0.0%	2.08	2.13	2.4%
1225012094	5/31/2020	0.28	0.29	3.5%	2.42	2.44	0.8%
1225012107	5/31/2020	0.28	0.30	6.9%	0.78	0.75	3.9%
1225012040	5/31/2020	0.32	0.31	3.2%	1.46	1.53	4.7%
1225012011	5/31/2020	0.33	0.33	0.0%	1.24	1.25	0.8%
1225012120	5/31/2020	0.42	0.41	2.4%	1.29	1.28	0.8%
1232014158	6/1/2020	0.28	0.25	11.3%	0.51	0.51	0.0%
1232014036	6/1/2020	0.30	0.29	3.4%	0.12	0.14	15.4%
1232014154	6/1/2020	0.34	0.33	3.0%	0.29	0.29	0.0%
1232014107	6/1/2020	0.38	0.37	2.7%	0.11	0.10	9.5%
1232014167	6/1/2020	0.32	0.37	14.5%	0.44	0.49	10.8%
1232014166	6/1/2020	0.40	0.39	2.5%	0.41	0.43	4.8%
1232014174	6/1/2020	0.49	0.47	4.2%	0.46	0.42	9.1%
1232014146	6/1/2020	0.47	0.48	2.1%	0.53	0.57	7.3%
1232014137	6/1/2020	0.58	0.61	5.0%	0.53	0.55	3.7%
1225020286	6/2/2020	0.17	0.17	0.0%	1.66	1.76	5.8%
1225020013	6/2/2020	0.18	0.17	5.7%	5.20	5.45	4.7%
1225020074	6/2/2020	0.17	0.17	0.0%	8.93	8.98	0.6%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1225020106	6/2/2020	0.19	0.19	0.0%	1.13	1.12	0.9%
1225020250	6/2/2020	0.20	0.19	5.1%	1.85	1.77	4.4%
1225020227	6/2/2020	0.20	0.19	5.1%	1.80	1.80	0.0%
1225020191	6/2/2020	0.21	0.21	0.0%	1.24	1.26	1.6%
1225020277	6/2/2020	0.21	0.21	0.0%	1.89	1.87	1.1%
1225020320	6/2/2020	0.22	0.23	4.4%	0.28	0.28	0.0%
1225020057	6/2/2020	0.26	0.25	3.9%	3.91	4.05	3.5%
1225020176	6/2/2020	0.25	0.28	11.3%	2.09	2.12	1.4%
1225020031	6/2/2020	0.30	0.29	3.4%	1.15	1.18	2.6%
1232014123	6/2/2020	0.29	0.30	3.4%	0.16	0.17	6.1%
1225020046	6/2/2020	0.32	0.31	3.2%	1.42	1.38	2.9%
1225020146	6/2/2020	0.31	0.32	3.2%	1.51	1.56	3.3%
1225020202	6/2/2020	0.37	0.32	14.5%	1.85	1.75	5.6%
1225020102	6/2/2020	0.36	0.35	2.8%	1.50	1.55	3.3%
1225020239	6/2/2020	0.38	0.37	2.7%	2.20	2.18	0.9%
1232014060	6/2/2020	0.39	0.38	2.6%	0.56	0.60	6.9%
1232014116	6/2/2020	0.40	0.40	0.0%	0.55	0.56	1.8%
1225020018	6/2/2020	0.41	0.41	0.0%	1.77	1.83	3.3%
1225020115	6/2/2020	0.46	0.47	2.2%	4.42	4.31	2.5%
1225020005	6/2/2020	0.81	0.80	1.2%	1.56	1.57	0.6%
1225021155	6/3/2020	0.17	0.17	0.0%	1.83	1.83	0.0%
1225021188	6/3/2020	0.18	0.18	0.0%	0.93	0.90	3.3%
1225021106	6/3/2020	0.20	0.20	0.0%	1.96	2.00	2.0%
1225021174	6/3/2020	0.24	0.25	4.1%	1.14	1.12	1.8%
1225021125	6/3/2020	0.28	0.29	3.5%	1.23	1.22	0.8%
1232015224	6/3/2020	0.44	0.42	4.7%	0.38	0.35	8.2%
1232015231	6/3/2020	0.42	0.46	9.1%	0.32	0.31	3.2%
1232015207	6/3/2020	0.55	0.54	1.8%	0.35	0.34	2.9%
1232015234	6/3/2020	0.59	0.59	0.0%	0.20	0.20	0.0%
1232015149	6/3/2020	0.61	0.59	3.3%	0.42	0.44	4.7%
1225021081	6/4/2020	0.17	0.16	6.1%	2.05	1.96	4.5%
1225021088	6/4/2020	0.19	0.20	5.1%	1.19	1.18	0.8%
1225021018	6/4/2020	0.23	0.22	4.4%	2.48	2.32	6.7%
1225021004	6/4/2020	0.25	0.23	8.3%	1.41	1.48	4.8%
1225021031	6/4/2020	0.24	0.24	0.0%	1.34	1.33	0.7%
1232015058	6/4/2020	0.29	0.29	0.0%	0.19	0.19	0.0%
1232015116	6/4/2020	0.29	0.29	0.0%	0.29	0.30	3.4%
1225021043	6/4/2020	0.31	0.32	3.2%	2.00	1.95	2.5%
1225021015	6/4/2020	0.40	0.40	0.0%	2.09	2.03	2.9%
1232015083	6/4/2020	0.46	0.47	2.2%	0.35	0.35	0.0%
1225021095	6/4/2020	1.18	0.88	29.1%	2.44	2.08	15.9%
1225021274	6/6/2020	0.14	0.13	7.4%	2.31	1.94	17.4%
1225021276	6/6/2020	0.17	0.16	6.1%	2.22	1.87	17.1%
1225013359	6/6/2020	0.19	0.18	5.4%	1.73	1.84	6.2%
1225013424	6/6/2020	0.18	0.18	0.0%	3.20	3.21	0.3%
1225013319	6/6/2020	0.20	0.20	0.0%	0.32	0.32	0.0%
1225013480	6/6/2020	0.25	0.24	4.1%	2.25	2.26	0.4%
1225013350	6/6/2020	0.20	0.24	18.2%	2.53	2.63	3.9%
1225013426	6/6/2020	0.27	0.26	3.8%	2.66	2.72	2.2%
1232015026	6/6/2020	0.27	0.28	3.6%	0.36	0.36	0.0%
1232015001	6/6/2020	0.28	0.28	0.0%	1.00	1.01	1.0%
1225013445	6/6/2020	0.29	0.29	0.0%	2.48	2.55	2.8%
1225021255	6/6/2020	0.31	0.30	3.3%	0.93	0.89	4.4%
1232015270	6/6/2020	0.31	0.31	0.0%	0.61	0.58	5.0%
1225021230	6/6/2020	0.35	0.34	2.9%	1.79	1.87	4.4%
1232015156	6/6/2020	0.38	0.40	5.1%	0.09	0.10	10.5%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1232015276	6/6/2020	0.41	0.40	2.5%	0.37	0.36	2.7%
1232015075	6/6/2020	0.48	0.45	6.5%	0.40	0.38	5.1%
1232015263	6/6/2020	0.49	0.48	2.1%	0.49	0.49	0.0%
1232015074	6/6/2020	0.49	0.49	0.0%	0.45	0.45	0.0%
1225013309	6/6/2020	0.56	0.53	5.5%	1.16	1.14	1.7%
1225021216	6/7/2020	0.26	0.26	0.0%	0.78	0.77	1.3%
1225010014	6/7/2020	0.32	0.30	6.5%	1.80	1.72	4.5%
1225010005	6/7/2020	0.66	0.69	4.4%	1.57	1.54	1.9%
1225010087	6/7/2020	0.80	0.80	0.0%	2.02	1.99	1.5%
1225013278	6/8/2020	0.22	0.18	20.0%	1.94	2.10	7.9%
1225013296	6/8/2020	0.25	0.26	3.9%	0.78	0.77	1.3%
1225013300	6/8/2020	0.28	0.26	7.4%	1.70	1.49	13.2%
1225010073	6/8/2020	0.32	0.33	3.1%	2.15	2.18	1.4%
1225010070	6/8/2020	0.43	0.42	2.4%	2.52	2.57	2.0%
1433002113	6/8/2020	0.65	0.65	0.0%	1.13	1.15	1.8%
1225010035	6/8/2020	0.73	0.74	1.4%	0.75	0.83	10.1%
1225010058	6/8/2020	0.80	0.80	0.0%	2.05	2.04	0.5%
1225015102	6/9/2020	0.15	0.16	6.5%	1.05	1.06	0.9%
1225013214	6/9/2020	0.17	0.16	6.1%	2.88	2.91	1.0%
1225015054	6/9/2020	0.17	0.18	5.7%	0.93	0.92	1.1%
1225015061	6/9/2020	0.21	0.21	0.0%	0.14	0.11	24.0%
1225013228	6/9/2020	0.26	0.25	3.9%	1.85	1.78	3.9%
1225015154	6/9/2020	0.28	0.26	7.4%	0.63	0.61	3.2%
1225015096	6/9/2020	0.31	0.33	6.3%	0.43	0.44	2.3%
1225015048	6/9/2020	0.33	0.34	3.0%	0.65	0.67	3.0%
1225015058	6/9/2020	0.35	0.35	0.0%	0.52	0.52	0.0%
1225015138	6/9/2020	0.53	0.50	5.8%	1.23	1.14	7.6%
1225015036	6/9/2020	0.78	0.83	6.2%	1.46	1.53	4.7%
1225015132	6/9/2020	1.03	0.99	4.0%	2.31	2.16	6.7%
1225015123	6/9/2020	1.00	1.01	1.0%	2.18	2.18	0.0%
1225011113	6/10/2020	0.16	0.14	13.3%	1.04	1.01	2.9%
1225013414	6/10/2020	0.18	0.18	0.0%	3.28	3.37	2.7%
1225013420	6/10/2020	0.21	0.21	0.0%	2.44	2.41	1.2%
1225013367	6/10/2020	0.23	0.22	4.4%	2.03	1.93	5.1%
1225013405	6/10/2020	0.26	0.27	3.8%	1.07	1.11	3.7%
1225011096	6/10/2020	0.34	0.36	5.7%	2.09	2.15	2.8%
1225011165	6/10/2020	0.36	0.39	8.0%	1.96	2.14	8.8%
1225011097	6/10/2020	0.42	0.40	4.9%	1.92	1.90	1.0%
1225011092	6/10/2020	0.41	0.42	2.4%	1.61	1.65	2.5%
1225013195	6/11/2020	0.13	0.14	7.4%	0.08	0.09	11.8%
1225013163	6/11/2020	0.14	0.16	13.3%	1.29	1.34	3.8%
1225013117	6/11/2020	0.17	0.18	5.7%	1.31	1.36	3.7%
1225013183	6/11/2020	0.19	0.19	0.0%	2.60	2.55	1.9%
1225013139	6/11/2020	0.25	0.22	12.8%	0.62	0.62	0.0%
1225013121	6/11/2020	0.26	0.26	0.0%	1.52	1.56	2.6%
1225024180	6/12/2020	0.14	0.15	6.9%	3.10	3.55	13.5%
1225024082	6/12/2020	0.20	0.22	9.5%	1.58	1.74	9.6%
1225013012	6/12/2020	0.21	0.23	9.1%	1.27	1.38	8.3%
1225013022	6/12/2020	0.22	0.23	4.4%	2.71	2.70	0.4%
1225013034	6/12/2020	0.23	0.23	0.0%	3.74	3.82	2.1%
1225024142	6/12/2020	0.25	0.24	4.1%	1.09	1.01	7.6%
1225013018	6/12/2020	0.26	0.24	8.0%	2.01	1.89	6.2%
1225024072	6/12/2020	0.26	0.25	3.9%	1.37	1.36	0.7%
1232016259	6/12/2020	0.25	0.26	3.9%	0.19	0.19	0.0%
1225024060	6/12/2020	0.28	0.27	3.6%	2.01	1.91	5.1%
1225013110	6/12/2020	0.28	0.28	0.0%	2.16	2.12	1.9%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1225024128	6/12/2020	0.33	0.34	3.0%	1.72	1.76	2.3%
1225013096	6/12/2020	0.41	0.41	0.0%	2.63	2.74	4.1%
1225013049	6/12/2020	0.48	0.49	2.1%	0.75	0.74	1.3%
1225024089	6/13/2020	0.17	0.14	19.4%	1.91	1.92	0.5%
1225024086	6/13/2020	0.19	0.19	0.0%	1.21	1.17	3.4%
1225025027	6/13/2020	0.19	0.19	0.0%	1.81	1.78	1.7%
1225018154	6/13/2020	0.19	0.20	5.1%	2.89	2.88	0.3%
1225018142	6/13/2020	0.22	0.22	0.0%	2.61	2.60	0.4%
1225025102	6/13/2020	0.23	0.26	12.2%	1.37	1.55	12.3%
1225025005	6/13/2020	0.25	0.26	3.9%	2.17	2.30	5.8%
1225018137	6/13/2020	0.31	0.30	3.3%	2.15	2.03	5.7%
1225025076	6/13/2020	0.31	0.32	3.2%	2.82	2.99	5.9%
1225025007	6/13/2020	0.32	0.33	3.1%	4.01	3.95	1.5%
1225018024	6/13/2020	0.34	0.34	0.0%	0.75	0.72	4.1%
1225018029	6/13/2020	0.47	0.48	2.1%	0.31	0.31	0.0%
1225025053	6/13/2020	0.47	0.50	6.2%	2.50	3.09	21.1%
1232016063	6/13/2020	0.54	0.51	5.7%	0.31	0.32	3.2%
1232016147	6/13/2020	0.55	0.55	0.0%	1.20	1.18	1.7%
1225024094	6/13/2020	0.59	0.59	0.0%	1.11	1.12	0.9%
1232016149	6/13/2020	0.67	0.66	1.5%	1.01	1.01	0.0%
1225025105	6/14/2020	0.12	0.12	0.0%	2.05	1.98	3.5%
1225025024	6/14/2020	0.17	0.17	0.0%	1.59	1.52	4.5%
1225018038	6/14/2020	0.47	0.48	2.1%	1.34	1.37	2.2%
1225016306	6/15/2020	0.11	0.12	8.7%	1.68	1.70	1.2%
1225018077	6/15/2020	0.14	0.16	13.3%	1.52	1.60	5.1%
1225018113	6/15/2020	0.20	0.22	9.5%	1.61	1.66	3.1%
1225016302	6/15/2020	0.24	0.23	4.3%	1.93	1.95	1.0%
1225016315	6/15/2020	0.24	0.24	0.0%	1.51	1.54	2.0%
1225018133	6/15/2020	0.25	0.25	0.0%	1.26	1.24	1.6%
1225018092	6/15/2020	0.34	0.34	0.0%	1.58	1.62	2.5%
1232016151	6/15/2020	0.40	0.39	2.5%	1.03	0.97	6.0%
1225016330	6/15/2020	0.42	0.43	2.4%	1.62	1.73	6.6%
1225016299	6/15/2020	0.42	0.44	4.7%	1.59	1.62	1.9%
1225016173	6/16/2020	0.20	0.19	5.1%	1.43	1.48	3.4%
1225016226	6/16/2020	0.23	0.23	0.0%	2.02	1.90	6.1%
1225016208	6/16/2020	0.25	0.25	0.0%	3.65	3.78	3.5%
1225016188	6/16/2020	0.27	0.27	0.0%	2.18	2.11	3.3%
1232016112	6/16/2020	0.39	0.38	2.6%	0.81	0.79	2.5%
1225016185	6/16/2020	0.40	0.40	0.0%	1.84	1.77	3.9%
1225028050	6/17/2020	0.15	0.15	0.0%	1.85	1.81	2.2%
1225028149	6/17/2020	0.39	0.39	0.0%	2.02	1.90	6.1%
1225016265	6/17/2020	0.65	0.66	1.5%	0.36	0.36	0.0%
1225016262	6/17/2020	0.71	0.71	0.0%	0.63	0.64	1.6%
1225016291	6/18/2020	0.10	0.10	0.0%	1.91	2.06	7.6%
1225016043	6/18/2020	0.13	0.13	0.0%	1.16	1.15	0.9%
1225016047	6/18/2020	0.18	0.19	5.4%	0.93	1.02	9.2%
1225016014	6/18/2020	0.24	0.23	4.3%	1.58	1.55	1.9%
1225028066	6/18/2020	0.24	0.25	4.1%	1.10	1.13	2.7%
1225016005	6/18/2020	0.28	0.27	3.6%	1.99	1.96	1.5%
1225016061	6/18/2020	0.30	0.28	6.9%	2.01	1.96	2.5%
1225028015	6/18/2020	0.39	0.37	5.3%	1.52	1.63	7.0%
1225028026	6/18/2020	0.66	0.61	7.9%	1.33	1.34	0.7%
1225027152	6/20/2020	0.09	0.09	0.0%	2.12	2.05	3.4%
1225022323	6/20/2020	0.15	0.14	6.9%	3.79	3.77	0.5%
1225022324	6/20/2020	0.13	0.14	7.4%	5.92	6.03	1.8%
1225027014	6/20/2020	0.19	0.17	11.1%	1.58	1.53	3.2%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1225027102	6/20/2020	0.17	0.17	0.0%	1.90	1.96	3.1%
1225022346	6/20/2020	0.17	0.17	0.0%	2.37	2.29	3.4%
1225022244	6/20/2020	0.17	0.17	0.0%	3.34	3.21	4.0%
1225022363	6/20/2020	0.19	0.19	0.0%	1.79	1.75	2.3%
1225027026	6/20/2020	0.19	0.19	0.0%	2.90	2.99	3.1%
1225027159	6/20/2020	0.19	0.20	5.1%	0.25	0.24	4.1%
1225022205	6/20/2020	0.19	0.20	5.1%	1.98	1.99	0.5%
1225027031	6/20/2020	0.22	0.21	4.7%	1.92	2.12	9.9%
1225028118	6/20/2020	0.22	0.22	0.0%	2.32	2.33	0.4%
1225027110	6/20/2020	0.22	0.22	0.0%	2.42	2.51	3.7%
1225022145	6/20/2020	0.22	0.23	4.4%	1.05	1.10	4.7%
1225016117	6/20/2020	0.26	0.26	0.0%	1.32	1.27	3.9%
1225022098	6/20/2020	0.28	0.27	3.6%	1.22	1.23	0.8%
1225028121	6/20/2020	0.30	0.28	6.9%	1.47	1.42	3.5%
1225022123	6/20/2020	0.27	0.29	7.1%	1.49	1.55	3.9%
1225028091	6/20/2020	0.31	0.29	6.7%	1.67	1.64	1.8%
1225022368	6/20/2020	0.30	0.29	3.4%	1.96	1.95	0.5%
1225027066	6/20/2020	0.32	0.31	3.2%	1.51	1.48	2.0%
1225028127	6/20/2020	0.37	0.37	0.0%	1.90	1.96	3.1%
1225022023	6/20/2020	0.36	0.38	5.4%	1.09	1.14	4.5%
1225022100	6/20/2020	0.38	0.38	0.0%	1.21	1.21	0.0%
1225016098	6/20/2020	0.39	0.40	2.5%	1.24	1.15	7.5%
1225016161	6/20/2020	0.40	0.41	2.5%	1.31	1.34	2.3%
1225022072	6/20/2020	0.47	0.44	6.6%	1.92	1.94	1.0%
1433003057	6/20/2020	0.50	0.51	2.0%	0.39	0.41	5.0%
1225027164	6/20/2020	0.63	0.63	0.0%	1.05	0.97	7.9%
1225027106	6/20/2020	0.62	0.63	1.6%	0.96	0.98	2.1%
1433003130	6/20/2020	0.65	0.64	1.6%	0.74	0.75	1.3%
1433003067	6/20/2020	1.65	1.59	3.7%	1.58	1.55	1.9%
1433003019	6/20/2020	1.64	1.63	0.6%	0.48	0.47	2.1%
1433003048	6/20/2020	1.86	1.80	3.3%	3.15	3.05	3.2%
1225022017	6/22/2020	0.08	0.08	0.0%	1.92	1.91	0.5%
1225022034	6/22/2020	0.17	0.17	0.0%	2.04	2.00	2.0%
1225022130	6/22/2020	0.19	0.19	0.0%	2.70	2.66	1.5%
1225022307	6/22/2020	0.21	0.22	4.7%	1.62	1.73	6.6%
1433003104	6/22/2020	0.25	0.26	3.9%	0.81	0.86	6.0%
1225019058	6/22/2020	0.34	0.31	9.2%	0.52	0.48	8.0%
1225019082	6/22/2020	0.33	0.31	6.3%	2.05	2.08	1.5%
1225022303	6/22/2020	0.36	0.35	2.8%	1.79	1.70	5.2%
1225022216	6/22/2020	0.35	0.37	5.6%	1.55	1.72	10.4%
1225022285	6/22/2020	0.38	0.38	0.0%	1.08	1.15	6.3%
1225019078	6/22/2020	0.40	0.40	0.0%	0.72	0.83	14.2%
1225019094	6/22/2020	0.39	0.40	2.5%	0.91	0.93	2.2%
1225019041	6/22/2020	0.48	0.47	2.1%	1.60	1.61	0.6%
1225022179	6/22/2020	1.03	1.00	3.0%	0.40	0.38	5.1%
1225019050	6/22/2020	1.14	1.17	2.6%	0.12	0.10	18.2%
1225027147	6/23/2020	0.16	0.17	6.1%	1.66	1.62	2.4%
1225027123	6/23/2020	0.19	0.18	5.4%	2.17	2.26	4.1%
1225022059	6/23/2020	0.31	0.30	3.3%	0.96	0.92	4.3%
1225022337	6/23/2020	0.40	0.38	5.1%	2.36	2.37	0.4%
1225022008	6/23/2020	0.66	0.64	3.1%	1.22	1.18	3.3%
1324001144	6/24/2020	0.16	0.15	6.5%	1.36	1.39	2.2%
1324001270	6/24/2020	0.18	0.16	11.8%	1.43	1.36	5.0%
1324001175	6/24/2020	0.27	0.27	0.0%	1.43	1.61	11.8%
1324001291	6/24/2020	0.37	0.34	8.5%	1.05	0.98	6.9%
1324001184	6/24/2020	0.43	0.42	2.4%	2.53	2.52	0.4%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1324001242	6/24/2020	0.41	0.43	4.8%	1.45	1.46	0.7%
1324001227	6/24/2020	0.43	0.45	4.5%	2.29	2.09	9.1%
1324001228	6/24/2020	0.52	0.50	3.9%	2.31	2.33	0.9%
1324001198	6/24/2020	0.49	0.51	4.0%	1.12	1.10	1.8%
1324001248	6/24/2020	0.57	0.56	1.8%	2.45	2.32	5.5%
1324001313	6/24/2020	0.64	0.64	0.0%	1.99	1.93	3.1%
1324001252	6/24/2020	1.10	1.14	3.6%	2.28	2.30	0.9%
1232019337	6/25/2020	0.22	0.22	0.0%	1.30	1.27	2.3%
1232019186	6/25/2020	0.23	0.23	0.0%	0.05	0.06	18.2%
1232019362	6/25/2020	0.24	0.24	0.0%	0.49	0.46	6.3%
1232019166	6/25/2020	0.31	0.30	3.3%	0.07	0.06	15.4%
1232019005	6/25/2020	0.30	0.31	3.3%	0.02	0.02	0.0%
1232019239	6/25/2020	0.35	0.36	2.8%	1.41	1.33	5.8%
1232019083	6/25/2020	0.37	0.36	2.7%	1.95	1.95	0.0%
1232019098	6/25/2020	0.39	0.39	0.0%	0.80	0.84	4.9%
1232019012	6/25/2020	0.40	0.42	4.9%	0.15	0.15	0.0%
1232019108	6/25/2020	0.45	0.43	4.5%	0.06	0.05	18.2%
1232019071	6/25/2020	0.44	0.44	0.0%	0.14	0.13	7.4%
1225019031	6/25/2020	0.46	0.44	4.4%	2.03	1.44	34.0%
1225019018	6/25/2020	0.48	0.47	2.1%	0.51	0.53	3.8%
1232019111	6/25/2020	0.49	0.49	0.0%	0.02	0.01	66.7%
1232019120	6/25/2020	0.49	0.49	0.0%	0.02	0.02	0.0%
1232019132	6/25/2020	0.49	0.49	0.0%	0.04	0.04	0.0%
1232019204	6/25/2020	0.52	0.50	3.9%	1.22	1.20	1.7%
1225019156	6/26/2020	0.16	0.15	6.5%	1.05	1.16	10.0%
1225019151	6/26/2020	0.19	0.18	5.4%	1.74	1.65	5.3%
1225019124	6/26/2020	0.20	0.20	0.0%	0.64	0.68	6.1%
1225019161	6/26/2020	0.31	0.34	9.2%	0.97	1.05	7.9%
1225019116	6/26/2020	0.48	0.46	4.3%	1.26	1.18	6.6%
1225019100	6/26/2020	0.58	0.56	3.5%	0.88	0.80	9.5%
1232019320	6/27/2020	0.12	0.12	0.0%	1.60	1.60	0.0%
1324001070	6/27/2020	0.12	0.13	8.0%	1.39	1.40	0.7%
1324001068	6/27/2020	0.16	0.15	6.5%	1.41	1.35	4.3%
1324001125	6/27/2020	0.19	0.19	0.0%	0.42	0.43	2.4%
1324001087	6/27/2020	0.30	0.31	3.3%	0.88	0.87	1.1%
1324001085	6/27/2020	0.32	0.32	0.0%	0.34	0.36	5.7%
1324001101	6/27/2020	0.35	0.37	5.6%	2.55	2.58	1.2%
1324001110	6/27/2020	0.45	0.46	2.2%	1.61	1.64	1.8%
1324001108	6/27/2020	0.50	0.50	0.0%	2.42	2.34	3.4%
1324001138	6/27/2020	0.65	0.70	7.4%	1.65	1.71	3.6%
1324001320	6/27/2020	0.90	0.94	4.3%	2.67	2.73	2.2%
1231034930	6/28/2020	0.09	0.08	11.8%	0.07	0.07	0.0%
1324001030	6/28/2020	0.16	0.16	0.0%	0.86	0.84	2.4%
1324001008	6/28/2020	0.20	0.19	5.1%	0.59	0.58	1.7%
1231034931	6/28/2020	0.32	0.32	0.0%	0.11	0.11	0.0%
1324001511	6/28/2020	0.37	0.36	2.7%	1.08	1.06	1.9%
1231034369	6/28/2020	0.39	0.38	2.6%	0.92	0.90	2.2%
1324001014	6/28/2020	0.54	0.51	5.7%	0.74	0.71	4.1%
1324001377	6/28/2020	0.59	0.59	0.0%	2.89	2.83	2.1%
1231034294	6/28/2020	0.62	0.61	1.6%	1.49	1.53	2.6%
1231034449	6/28/2020	0.67	0.64	4.6%	1.75	1.72	1.7%
1324001424	6/30/2020	0.17	0.17	0.0%	3.74	3.81	1.9%
1324001456	6/30/2020	0.31	0.34	9.2%	1.70	1.74	2.3%
1231034270	6/30/2020	0.41	0.38	7.6%	2.18	2.19	0.5%
1231034295	6/30/2020	0.40	0.41	2.5%	1.52	1.57	3.2%
1324001419	6/30/2020	0.49	0.50	2.0%	1.94	1.95	0.5%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1324001462	6/30/2020	0.70	0.73	4.2%	2.89	3.00	3.7%
1324001471	6/30/2020	0.79	0.77	2.6%	1.78	1.79	0.6%
1232018134	7/1/2020	0.07	0.07	0.0%	5.10	5.36	5.0%
1232018113	7/1/2020	0.16	0.16	0.0%	2.90	2.81	3.2%
1324005278	7/1/2020	0.17	0.17	0.0%	2.19	2.29	4.5%
1324003101	7/1/2020	0.18	0.19	5.4%	1.37	1.36	0.7%
1324003105	7/1/2020	0.19	0.20	5.1%	2.79	2.88	3.2%
1324005294	7/1/2020	0.23	0.22	4.4%	2.78	2.76	0.7%
1324003183	7/1/2020	0.21	0.22	4.7%	2.88	2.97	3.1%
1324005286	7/1/2020	0.23	0.23	0.0%	2.00	2.08	3.9%
1232018162	7/1/2020	0.23	0.23	0.0%	3.69	3.77	2.1%
1232018008	7/1/2020	0.25	0.25	0.0%	0.24	0.25	4.1%
1324003013	7/1/2020	0.28	0.29	3.5%	2.69	2.72	1.1%
1324005251	7/1/2020	0.30	0.30	0.0%	2.35	2.40	2.1%
1324005298	7/1/2020	0.34	0.33	3.0%	2.74	2.72	0.7%
1232018035	7/1/2020	0.37	0.37	0.0%	3.27	3.67	11.5%
1232018001	7/1/2020	0.41	0.39	5.0%	0.44	0.45	2.2%
1324003121	7/1/2020	0.41	0.40	2.5%	2.05	1.99	3.0%
1232018097	7/1/2020	0.44	0.41	7.1%	1.72	1.70	1.2%
1324003050	7/1/2020	0.41	0.41	0.0%	2.30	2.35	2.2%
1324003074	7/1/2020	0.64	0.63	1.6%	1.88	1.84	2.2%
1324003116	7/1/2020	0.70	0.71	1.4%	2.27	2.34	3.0%
1324003005	7/1/2020	0.73	0.75	2.7%	2.47	2.55	3.2%
1324003037	7/1/2020	0.98	0.99	1.0%	2.53	2.48	2.0%
1324003113	7/1/2020	1.80	1.79	0.6%	1.84	1.89	2.7%
1231034123	7/3/2020	0.15	0.13	14.3%	1.41	1.56	10.1%
1324005090	7/3/2020	0.14	0.14	0.0%	1.92	1.96	2.1%
1324005118	7/3/2020	0.23	0.21	9.1%	0.64	0.62	3.2%
1324005149	7/3/2020	0.20	0.21	4.9%	1.96	2.05	4.5%
1324005223	7/3/2020	0.24	0.24	0.0%	1.83	1.95	6.3%
1231034189	7/3/2020	0.33	0.34	3.0%	0.23	0.22	4.4%
1324003023	7/3/2020	0.38	0.37	2.7%	2.29	2.37	3.4%
1324005094	7/3/2020	0.35	0.38	8.2%	1.86	1.99	6.8%
1324005078	7/3/2020	0.38	0.39	2.6%	1.25	1.20	4.1%
1231034277	7/3/2020	0.39	0.39	0.0%	2.29	2.20	4.0%
1231034307	7/3/2020	0.39	0.40	2.5%	0.51	0.50	2.0%
1231034413	7/3/2020	0.42	0.41	2.4%	0.54	0.56	3.6%
1324005184	7/3/2020	0.41	0.41	0.0%	2.92	2.94	0.7%
1324005082	7/3/2020	0.43	0.42	2.4%	0.82	0.81	1.2%
1231034303	7/3/2020	0.42	0.44	4.7%	0.57	0.59	3.4%
1231034309	7/3/2020	0.43	0.44	2.3%	0.78	0.80	2.5%
1231034240	7/3/2020	0.43	0.45	4.5%	1.41	1.42	0.7%
1231034465	7/3/2020	0.50	0.51	2.0%	0.95	0.99	4.1%
1231034022	7/3/2020	0.50	0.51	2.0%	1.18	1.20	1.7%
1231034117	7/3/2020	0.49	0.51	4.0%	2.31	2.40	3.8%
1231034254	7/3/2020	0.54	0.54	0.0%	0.47	0.46	2.2%
1324005063	7/3/2020	0.64	0.58	9.8%	1.97	1.83	7.4%
1231034606	7/3/2020	0.61	0.60	1.7%	2.08	2.09	0.5%
1231034462	7/3/2020	0.68	0.64	6.1%	0.66	0.61	7.9%
1231034063	7/3/2020	0.64	0.64	0.0%	1.67	1.74	4.1%
1231034218	7/3/2020	0.89	0.91	2.2%	1.58	1.61	1.9%
1231034132	7/3/2020	0.94	0.95	1.1%	1.65	1.63	1.2%
1324005161	7/3/2020	1.30	1.36	4.5%	2.11	2.28	7.7%
1232018025	7/4/2020	0.10	0.10	0.0%	2.67	2.55	4.6%
1324005006	7/4/2020	0.14	0.14	0.0%	1.80	1.70	5.7%
1324005321	7/4/2020	0.19	0.19	0.0%	2.90	2.78	4.2%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1324005349	7/4/2020	0.19	0.20	5.1%	2.66	2.62	1.5%
1231034107	7/4/2020	0.21	0.22	4.7%	0.11	0.12	8.7%
1324005057	7/4/2020	0.26	0.23	12.2%	2.43	2.36	2.9%
1324005029	7/4/2020	0.33	0.32	3.1%	2.30	2.34	1.7%
1324005355	7/4/2020	0.34	0.35	2.9%	2.31	2.45	5.9%
1324003207	7/4/2020	0.41	0.43	4.8%	1.49	1.53	2.6%
1231034142	7/4/2020	0.44	0.44	0.0%	1.31	1.27	3.1%
1324003221	7/4/2020	0.49	0.48	2.1%	1.95	1.92	1.6%
1231036199	7/5/2020	0.10	0.10	0.0%	1.60	1.59	0.6%
1231034094	7/5/2020	0.17	0.12	34.5%	0.29	0.31	6.7%
1231034044	7/5/2020	0.14	0.14	0.0%	0.09	0.09	0.0%
1231036160	7/5/2020	0.14	0.14	0.0%	0.92	0.90	2.2%
1231036155	7/5/2020	0.19	0.18	5.4%	1.14	1.10	3.6%
1231034005	7/5/2020	0.19	0.19	0.0%	0.16	0.16	0.0%
1231036075	7/5/2020	0.52	0.51	1.9%	1.70	1.67	1.8%
1231034086	7/5/2020	0.80	0.77	3.8%	1.35	1.30	3.8%
1324004033	7/7/2020	0.12	0.11	8.7%	0.29	0.27	7.1%
1324004164	7/7/2020	0.19	0.17	11.1%	0.24	0.25	4.1%
1324004161	7/7/2020	0.19	0.19	0.0%	0.33	0.32	3.1%
1324004227	7/7/2020	0.29	0.29	0.0%	1.99	1.98	0.5%
1324004102	7/7/2020	0.39	0.38	2.6%	1.95	1.87	4.2%
1324004005	7/7/2020	0.35	0.38	8.2%	2.68	2.82	5.1%
1324004134	7/7/2020	0.47	0.47	0.0%	2.35	2.45	4.2%
1324004268	7/7/2020	0.51	0.51	0.0%	2.16	2.22	2.7%
1324004245	7/7/2020	0.61	0.59	3.3%	1.71	1.68	1.8%
1324004108	7/7/2020	0.63	0.60	4.9%	2.85	2.75	3.6%
1324004010	7/7/2020	0.80	0.91	12.9%	2.24	2.60	14.9%
1324004013	7/8/2020	0.10	0.10	0.0%	3.17	3.15	0.6%
1324004194	7/8/2020	0.20	0.21	4.9%	1.95	1.93	1.0%
1324004222	7/8/2020	0.41	0.42	2.4%	1.91	1.95	2.1%
1324004085	7/8/2020	0.47	0.47	0.0%	2.47	2.52	2.0%
1324006272	7/9/2020	0.14	0.16	13.3%	2.19	2.53	14.4%
1324006093	7/9/2020	0.19	0.21	10.0%	0.08	0.08	0.0%
1324006057	7/9/2020	0.23	0.23	0.0%	1.60	1.62	1.2%
1324006243	7/9/2020	0.22	0.23	4.4%	2.49	2.48	0.4%
1225026189	7/9/2020	0.31	0.26	17.5%	2.87	2.49	14.2%
1225026146	7/9/2020	0.28	0.28	0.0%	2.21	2.17	1.8%
1324006111	7/9/2020	0.33	0.30	9.5%	1.95	1.89	3.1%
1225026134	7/9/2020	0.30	0.31	3.3%	1.32	1.27	3.9%
1324006085	7/9/2020	0.32	0.32	0.0%	1.93	2.01	4.1%
1324006074	7/9/2020	0.34	0.36	5.7%	1.66	1.78	7.0%
1225026172	7/9/2020	0.38	0.37	2.7%	2.49	2.53	1.6%
1225026117	7/9/2020	0.39	0.38	2.6%	2.29	2.32	1.3%
1324006258	7/9/2020	0.43	0.42	2.4%	2.10	2.11	0.5%
1225026080	7/9/2020	0.42	0.46	9.1%	1.60	1.63	1.9%
1225026206	7/9/2020	0.42	0.46	9.1%	1.61	1.68	4.3%
1225026132	7/9/2020	0.50	0.50	0.0%	2.21	2.20	0.5%
1225026061	7/9/2020	0.67	0.67	0.0%	2.06	2.03	1.5%
1225026037	7/9/2020	0.83	0.96	14.5%	0.37	0.85	78.7%
1225029049	7/11/2020	0.14	0.14	0.0%	0.64	0.66	3.1%
1225029078	7/11/2020	0.20	0.20	0.0%	1.64	1.59	3.1%
1324006010	7/11/2020	0.21	0.21	0.0%	0.09	0.10	10.5%
1324006201	7/11/2020	0.22	0.22	0.0%	1.87	1.93	3.2%
1225029007	7/11/2020	0.23	0.23	0.0%	1.11	1.15	3.5%
1324006177	7/11/2020	0.24	0.24	0.0%	2.07	2.07	0.0%
1225029166	7/11/2020	0.26	0.27	3.8%	0.92	0.95	3.2%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1225029122	7/11/2020	0.28	0.29	3.5%	0.52	0.50	3.9%
1324006222	7/11/2020	0.30	0.31	3.3%	2.08	2.12	1.9%
1225029138	7/11/2020	0.33	0.32	3.1%	1.37	1.33	3.0%
1324006007	7/11/2020	0.39	0.39	0.0%	0.15	0.15	0.0%
1324006192	7/11/2020	0.40	0.41	2.5%	2.23	2.25	0.9%
1324006152	7/11/2020	0.40	0.42	4.9%	2.33	2.41	3.4%
1225029024	7/11/2020	0.45	0.44	2.2%	0.78	0.77	1.3%
1324006135	7/11/2020	0.50	0.46	8.3%	2.14	2.12	0.9%
1225026097	7/11/2020	1.02	1.00	2.0%	1.43	1.45	1.4%
1225029210	7/11/2020	0.97	1.02	5.0%	0.26	0.26	0.0%
1324010156	7/13/2020	0.04	0.04	0.0%	1.62	1.62	0.0%
1225029053	7/13/2020	0.13	0.13	0.0%	1.65	1.62	1.8%
1225029109	7/13/2020	0.16	0.17	6.1%	1.11	1.12	0.9%
1324010219	7/13/2020	0.18	0.18	0.0%	0.08	0.08	0.0%
1324010204	7/13/2020	0.18	0.18	0.0%	2.27	2.20	3.1%
1324010073	7/13/2020	0.19	0.19	0.0%	0.27	0.28	3.6%
1324010254	7/13/2020	0.20	0.19	5.1%	3.08	3.03	1.6%
1324010222	7/13/2020	0.20	0.19	5.1%	3.42	3.50	2.3%
1324010048	7/13/2020	0.19	0.20	5.1%	1.23	1.24	0.8%
1324010113	7/13/2020	0.21	0.21	0.0%	2.36	2.34	0.9%
1324010091	7/13/2020	0.21	0.22	4.7%	1.38	1.31	5.2%
1324010093	7/13/2020	0.24	0.24	0.0%	2.27	2.23	1.8%
1324010125	7/13/2020	0.25	0.26	3.9%	3.06	3.04	0.7%
1324010140	7/13/2020	0.28	0.27	3.6%	1.94	1.94	0.0%
1231036092	7/13/2020	0.31	0.30	3.3%	0.16	0.17	6.1%
1324010181	7/13/2020	0.30	0.30	0.0%	1.85	1.82	1.6%
1225029092	7/13/2020	0.31	0.31	0.0%	1.19	1.21	1.7%
1231036045	7/13/2020	0.32	0.33	3.1%	0.12	0.12	0.0%
1231036102	7/13/2020	0.44	0.46	4.4%	1.03	1.05	1.9%
1231036036	7/13/2020	0.52	0.50	3.9%	1.60	1.56	2.5%
1231036022	7/13/2020	0.55	0.54	1.8%	1.39	1.36	2.2%
1231036059	7/13/2020	0.57	0.56	1.8%	1.71	1.67	2.4%
1231036148	7/15/2020	0.44	0.41	7.1%	1.45	1.45	0.0%
1231036219	7/15/2020	0.49	0.49	0.0%	0.21	0.20	4.9%
1231036177	7/15/2020	0.65	0.65	0.0%	1.04	0.09	168.1%
1231039302	7/16/2020	0.08	0.07	13.3%	3.99	4.17	4.4%
1231039177	7/16/2020	0.10	0.10	0.0%	3.61	3.64	0.8%
1231039213	7/16/2020	0.13	0.12	8.0%	6.94	6.87	1.0%
1231039156	7/16/2020	0.14	0.14	0.0%	3.41	3.56	4.3%
1231039065	7/16/2020	0.18	0.19	5.4%	3.42	3.44	0.6%
1231039220	7/16/2020	0.20	0.20	0.0%	1.46	1.42	2.8%
1231039262	7/16/2020	0.19	0.20	5.1%	4.80	4.87	1.4%
1324010298	7/16/2020	0.22	0.21	4.7%	2.35	2.35	0.0%
1324010267	7/16/2020	0.24	0.25	4.1%	0.13	0.12	8.0%
1231039199	7/16/2020	0.25	0.25	0.0%	2.85	2.92	2.4%
1324010321	7/16/2020	0.25	0.26	3.9%	0.47	0.47	0.0%
1231039024	7/16/2020	0.32	0.33	3.1%	2.04	2.00	2.0%
1324010314	7/16/2020	0.37	0.37	0.0%	2.63	2.64	0.4%
1231039036	7/16/2020	0.51	0.51	0.0%	3.41	3.37	1.2%
1231039323	7/16/2020	0.56	0.56	0.0%	0.13	0.11	16.7%
1324009009	7/17/2020	0.15	0.15	0.0%	0.23	0.22	4.4%
1324011224	7/17/2020	0.19	0.20	5.1%	2.74	2.68	2.2%
1324009058	7/17/2020	0.24	0.24	0.0%	1.00	1.01	1.0%
1324009007	7/17/2020	0.39	0.40	2.5%	1.68	1.76	4.7%
1324009103	7/17/2020	0.49	0.48	2.1%	1.63	1.57	3.7%
1324009034	7/17/2020	1.03	1.00	3.0%	1.74	1.68	3.5%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1324009079	7/17/2020	1.06	1.08	1.9%	1.90	1.91	0.5%
1324009075	7/17/2020	1.47	1.43	2.8%	1.64	1.59	3.1%
1231039096	7/18/2020	0.02	0.02	0.0%	2.11	2.20	4.2%
1231039088	7/18/2020	0.05	0.05	0.0%	3.09	3.14	1.6%
1231039092	7/18/2020	0.07	0.07	0.0%	1.98	1.89	4.7%
1231039043	7/18/2020	0.09	0.09	0.0%	3.64	3.69	1.4%
1231039179	7/18/2020	0.16	0.15	6.5%	1.97	1.95	1.0%
1231039142	7/18/2020	0.15	0.15	0.0%	2.54	2.49	2.0%
1231039090	7/18/2020	0.17	0.17	0.0%	2.25	2.23	0.9%
1324007148	7/18/2020	0.22	0.22	0.0%	0.64	0.59	8.1%
1231039361	7/18/2020	0.22	0.22	0.0%	1.37	1.39	1.4%
1324007110	7/18/2020	0.25	0.26	3.9%	0.09	0.09	0.0%
1324007186	7/18/2020	0.26	0.26	0.0%	2.69	2.67	0.7%
1231038163	7/18/2020	0.30	0.29	3.4%	0.93	0.97	4.2%
1231038208	7/18/2020	0.34	0.35	2.9%	1.19	1.21	1.7%
1324007072	7/18/2020	0.51	0.51	0.0%	1.60	1.65	3.1%
1324007197	7/18/2020	0.73	0.73	0.0%	3.58	3.57	0.3%
1324007124	7/19/2020	0.17	0.17	0.0%	1.70	1.71	0.6%
1324099017	7/19/2020	0.19	0.19	0.0%	1.36	1.29	5.3%
1324007243	7/19/2020	0.22	0.22	0.0%	3.04	2.93	3.7%
1324007146	7/19/2020	0.35	0.35	0.0%	2.19	2.19	0.0%
1231038005	7/19/2020	0.37	0.40	7.8%	0.13	0.13	0.0%
1231038105	7/19/2020	0.53	0.53	0.0%	0.64	0.64	0.0%
1231038111	7/19/2020	0.56	0.57	1.8%	0.24	0.24	0.0%
1231038136	7/19/2020	0.65	0.65	0.0%	1.93	1.94	0.5%
1324007034	7/20/2020	0.17	0.15	12.5%	0.06	0.06	0.0%
1324007012	7/20/2020	0.19	0.19	0.0%	0.66	0.65	1.5%
1324010005	7/20/2020	0.22	0.21	4.7%	1.28	1.23	4.0%
1324010013	7/20/2020	0.23	0.23	0.0%	2.99	3.12	4.3%
1324010014	7/20/2020	0.24	0.24	0.0%	2.92	2.88	1.4%
1324010023	7/20/2020	0.27	0.27	0.0%	0.12	0.11	8.7%
1324007092	7/20/2020	0.27	0.27	0.0%	1.05	1.07	1.9%
1324007017	7/21/2020	0.13	0.14	7.4%	0.52	0.56	7.4%
1324007098	7/21/2020	0.16	0.18	11.8%	1.03	1.07	3.8%
1324007138	7/21/2020	0.21	0.22	4.7%	2.20	2.22	0.9%
1324007176	7/21/2020	0.28	0.28	0.0%	3.03	3.07	1.3%
1324007058	7/21/2020	0.28	0.29	3.5%	0.16	0.17	6.1%
1324016017	7/22/2020	0.15	0.15	0.0%	1.35	1.36	0.7%
1324016065	7/22/2020	0.15	0.15	0.0%	2.05	2.04	0.5%
1324016039	7/22/2020	0.19	0.18	5.4%	1.60	1.67	4.3%
1324016101	7/22/2020	0.21	0.21	0.0%	2.15	2.09	2.8%
1324007317	7/22/2020	0.27	0.26	3.8%	3.19	3.11	2.5%
1324016079	7/22/2020	0.30	0.30	0.0%	2.35	2.34	0.4%
1324016355	7/23/2020	0.10	0.10	0.0%	1.87	1.90	1.6%
1324007373	7/23/2020	0.14	0.14	0.0%	2.02	2.04	1.0%
1324016336	7/23/2020	0.15	0.16	6.5%	3.33	3.41	2.4%
1324016255	7/23/2020	0.17	0.17	0.0%	2.53	2.45	3.2%
1324016226	7/23/2020	0.20	0.18	10.5%	1.84	1.62	12.7%
1324007295	7/23/2020	0.20	0.18	10.5%	2.91	2.68	8.2%
1324016227	7/23/2020	0.19	0.19	0.0%	1.76	1.70	3.5%
1324007404	7/23/2020	0.20	0.19	5.1%	1.88	1.85	1.6%
1324016291	7/23/2020	0.19	0.19	0.0%	2.56	2.51	2.0%
1324007334	7/23/2020	0.20	0.20	0.0%	2.15	2.16	0.5%
1324007299	7/23/2020	0.21	0.21	0.0%	2.51	2.51	0.0%
1324007347	7/23/2020	0.22	0.21	4.7%	2.66	2.56	3.8%
1231038084	7/23/2020	0.23	0.22	4.4%	1.68	1.67	0.6%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1324007448	7/23/2020	0.23	0.22	4.4%	3.23	3.20	0.9%
1324016205	7/23/2020	0.23	0.23	0.0%	2.65	2.73	3.0%
1324007392	7/23/2020	0.25	0.25	0.0%	2.53	2.66	5.0%
1324007387	7/23/2020	0.28	0.27	3.6%	1.91	1.89	1.1%
1324016256	7/23/2020	0.28	0.27	3.6%	1.98	2.33	16.2%
1324007290	7/23/2020	0.27	0.27	0.0%	2.89	2.80	3.2%
1324007427	7/23/2020	0.28	0.29	3.5%	2.54	2.49	2.0%
1324016287	7/23/2020	0.33	0.34	3.0%	3.00	2.95	1.7%
1231038086	7/23/2020	0.38	0.38	0.0%	2.04	1.99	2.5%
1324016386	7/23/2020	0.39	0.39	0.0%	4.02	3.90	3.0%
1324016319	7/23/2020	0.43	0.43	0.0%	1.35	1.41	4.3%
1324016210	7/23/2020	0.46	0.47	2.2%	1.70	1.81	6.3%
1231038074	7/23/2020	0.48	0.48	0.0%	0.44	0.47	6.6%
1324007285	7/23/2020	0.45	0.48	6.5%	3.13	3.19	1.9%
1231038072	7/23/2020	0.52	0.53	1.9%	0.22	0.18	20.0%
1324016410	7/23/2020	0.60	0.56	6.9%	2.74	2.92	6.4%
1231038041	7/23/2020	0.70	0.81	14.6%	1.98	2.34	16.7%
1231038198	7/24/2020	0.20	0.19	5.1%	2.49	2.45	1.6%
1231040595	7/25/2020	0.07	0.07	0.0%	2.64	2.77	4.8%
1231040638	7/25/2020	0.11	0.11	0.0%	1.05	1.07	1.9%
1231040589	7/25/2020	0.12	0.12	0.0%	0.96	0.96	0.0%
1231040554	7/25/2020	0.13	0.13	0.0%	1.47	1.49	1.4%
1231040809	7/25/2020	0.16	0.17	6.1%	0.60	0.56	6.9%
1324007460	7/25/2020	0.27	0.25	7.7%	2.19	2.09	4.7%
1231040533	7/25/2020	0.27	0.27	0.0%	1.28	1.30	1.6%
1231040520	7/25/2020	0.42	0.42	0.0%	2.27	2.27	0.0%
1231040622	7/25/2020	0.44	0.43	2.3%	0.99	0.95	4.1%
1231040816	7/25/2020	0.49	0.50	2.0%	0.88	0.83	5.8%
1231040507	7/25/2020	0.74	0.73	1.4%	1.48	1.50	1.3%
1231037286	7/26/2020	0.12	0.12	0.0%	1.24	1.24	0.0%
1231040681	7/26/2020	0.14	0.13	7.4%	1.09	1.17	7.1%
1231037316	7/26/2020	0.32	0.32	0.0%	1.37	1.32	3.7%
1231040682	7/26/2020	0.35	0.33	5.9%	0.86	0.90	4.5%
1231037171	7/26/2020	0.37	0.38	2.7%	0.23	0.23	0.0%
1231037129	7/26/2020	0.41	0.40	2.5%	0.88	0.89	1.1%
1231037165	7/26/2020	0.41	0.40	2.5%	1.83	1.86	1.6%
1231037322	7/26/2020	0.48	0.47	2.1%	0.54	0.54	0.0%
1231040657	7/26/2020	0.50	0.50	0.0%	1.44	1.36	5.7%
1231037172	7/26/2020	0.53	0.53	0.0%	0.37	0.38	2.7%
1231037123	7/26/2020	0.63	0.63	0.0%	1.57	1.60	1.9%
1324013143	7/27/2020	0.07	0.07	0.0%	1.62	1.69	4.2%
1324013112	7/27/2020	0.10	0.10	0.0%	1.54	1.53	0.7%
1324013123	7/27/2020	0.16	0.17	6.1%	2.12	2.18	2.8%
1324013150	7/27/2020	0.17	0.18	5.7%	1.95	1.87	4.2%
1324007518	7/27/2020	0.23	0.26	12.2%	1.33	1.54	14.6%
1324007522	7/27/2020	0.30	0.30	0.0%	1.19	1.15	3.4%
1324007501	7/27/2020	0.28	0.30	6.9%	1.80	1.82	1.1%
1231037215	7/27/2020	0.33	0.33	0.0%	0.26	0.25	3.9%
1324007499	7/27/2020	0.35	0.37	5.6%	0.85	0.88	3.5%
1324013158	7/27/2020	0.38	0.38	0.0%	3.14	3.22	2.5%
1231037209	7/27/2020	0.39	0.39	0.0%	1.02	1.02	0.0%
1231037255	7/29/2020	0.10	0.10	0.0%	0.33	0.32	3.1%
1324013019	7/29/2020	0.17	0.20	16.2%	1.82	2.03	10.9%
1324013070	7/29/2020	0.21	0.21	0.0%	1.28	1.31	2.3%
1324013011	7/29/2020	0.20	0.22	9.5%	1.33	1.38	3.7%
1324013269	7/29/2020	0.33	0.32	3.1%	2.16	2.14	0.9%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1231037073	7/29/2020	0.33	0.33	0.0%	0.82	0.85	3.6%
1324013026	7/29/2020	0.41	0.36	13.0%	1.34	1.35	0.7%
1231037251	7/29/2020	0.37	0.36	2.7%	1.95	1.88	3.7%
1324013021	7/29/2020	0.41	0.37	10.3%	1.93	1.80	7.0%
1231037053	7/29/2020	0.45	0.45	0.0%	1.57	1.55	1.3%
1324013194	7/30/2020	0.24	0.25	4.1%	1.70	1.66	2.4%
1231037273	7/30/2020	0.26	0.26	0.0%	2.91	2.93	0.7%
1231037011	7/30/2020	0.34	0.34	0.0%	0.68	0.67	1.5%
1231037027	7/30/2020	0.34	0.34	0.0%	0.70	0.68	2.9%
1324017042	7/30/2020	0.39	0.43	9.8%	1.71	1.86	8.4%
1324013203	7/30/2020	0.43	0.43	0.0%	1.92	1.91	0.5%
1231037091	7/30/2020	0.46	0.44	4.4%	0.92	0.91	1.1%
1231037066	7/30/2020	0.68	0.67	1.5%	1.71	1.60	6.6%
1231037005	7/30/2020	0.72	0.73	1.4%	1.29	1.31	1.5%
1231037029	7/30/2020	0.74	0.74	0.0%	1.06	1.04	1.9%
1230058054	7/31/2020	0.12	0.11	8.7%	1.56	1.52	2.6%
1230058266	7/31/2020	0.66	0.67	1.5%	2.13	2.19	2.8%
1433004363	7/31/2020	1.00	1.00	0.0%	1.39	1.38	0.7%
1433004044	7/31/2020	1.04	1.01	2.9%	1.47	1.42	3.5%
1433004150	7/31/2020	1.02	1.08	5.7%	2.51	2.51	0.0%
1433004168	7/31/2020	1.14	1.18	3.4%	2.70	2.65	1.9%
1433004197	7/31/2020	1.53	1.52	0.7%	3.83	3.79	1.0%
1433004080	7/31/2020	1.61	1.62	0.6%	3.99	4.06	1.7%
1324008439	8/2/2020	0.06	0.05	18.2%	0.97	0.91	6.4%
1324008408	8/2/2020	0.07	0.07	0.0%	4.86	4.97	2.2%
1230058200	8/2/2020	0.08	0.08	0.0%	1.43	1.35	5.8%
1324008451	8/2/2020	0.17	0.10	51.9%	0.25	0.19	27.3%
1324008395	8/2/2020	0.10	0.10	0.0%	0.22	0.20	9.5%
1324008481	8/2/2020	0.14	0.14	0.0%	2.31	2.25	2.6%
1324008461	8/2/2020	0.14	0.14	0.0%	4.23	4.25	0.5%
1324008323	8/2/2020	0.15	0.15	0.0%	1.21	1.22	0.8%
1324008302	8/2/2020	0.17	0.15	12.5%	2.58	2.54	1.6%
1324008490	8/2/2020	0.17	0.17	0.0%	1.19	1.02	15.4%
1324008413	8/2/2020	0.16	0.17	6.1%	1.54	1.54	0.0%
1324008387	8/2/2020	0.18	0.18	0.0%	0.66	0.63	4.7%
1324017127	8/2/2020	0.22	0.18	20.0%	2.54	1.90	28.8%
1324008267	8/2/2020	0.18	0.18	0.0%	2.94	3.07	4.3%
1324017195	8/2/2020	0.20	0.19	5.1%	2.06	1.94	6.0%
1324008486	8/2/2020	0.19	0.22	14.6%	2.71	3.02	10.8%
1324008385	8/2/2020	0.23	0.23	0.0%	0.13	0.13	0.0%
1324008174	8/2/2020	0.24	0.24	0.0%	0.11	0.11	0.0%
1324008183	8/2/2020	0.24	0.24	0.0%	0.40	0.40	0.0%
1230058168	8/2/2020	0.24	0.24	0.0%	0.70	0.72	2.8%
1324017178	8/2/2020	0.25	0.24	4.1%	2.07	2.01	2.9%
1324008179	8/2/2020	0.29	0.25	14.8%	0.61	0.54	12.2%
1230058164	8/2/2020	0.26	0.26	0.0%	0.46	0.47	2.2%
1324008519	8/2/2020	0.21	0.26	21.3%	0.64	0.73	13.1%
1324008360	8/2/2020	0.29	0.27	7.1%	0.86	0.81	6.0%
1324008138	8/2/2020	0.27	0.27	0.0%	2.78	2.83	1.8%
1324008556	8/2/2020	0.28	0.28	0.0%	0.13	0.13	0.0%
1324008260	8/2/2020	0.33	0.32	3.1%	0.53	0.55	3.7%
1324008197	8/2/2020	0.36	0.34	5.7%	1.36	1.30	4.5%
1230058221	8/2/2020	0.39	0.38	2.6%	1.17	1.18	0.9%
1324008254	8/2/2020	0.39	0.40	2.5%	0.44	0.41	7.1%
1230058506	8/2/2020	0.46	0.45	2.2%	1.75	1.76	0.6%
1230058264	8/2/2020	0.43	0.45	4.5%	3.00	3.35	11.0%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1324008150	8/2/2020	0.50	0.51	2.0%	0.92	0.93	1.1%
1324017163	8/2/2020	0.53	0.52	1.9%	2.13	2.06	3.3%
1230058151	8/2/2020	0.53	0.56	5.5%	1.45	1.46	0.7%
1230058023	8/4/2020	0.09	0.08	11.8%	4.65	4.60	1.1%
1230058181	8/4/2020	0.15	0.14	6.9%	1.32	1.39	5.2%
1230058084	8/4/2020	0.15	0.15	0.0%	2.85	2.81	1.4%
1230058088	8/4/2020	0.16	0.16	0.0%	0.35	0.34	2.9%
1324008058	8/4/2020	0.15	0.16	6.5%	4.84	4.74	2.1%
1324008108	8/4/2020	0.17	0.17	0.0%	1.35	1.34	0.7%
1230058014	8/4/2020	0.17	0.18	5.7%	0.98	0.99	1.0%
1324008120	8/4/2020	0.17	0.18	5.7%	2.78	2.80	0.7%
1324008005	8/4/2020	0.18	0.19	5.4%	0.45	0.43	4.5%
1230058242	8/4/2020	0.20	0.20	0.0%	2.59	2.62	1.2%
1324008069	8/4/2020	0.23	0.22	4.4%	1.45	1.42	2.1%
1230059083	8/4/2020	0.22	0.22	0.0%	2.60	2.52	3.1%
1230058177	8/4/2020	0.22	0.24	8.7%	0.65	0.66	1.5%
1230058289	8/4/2020	0.26	0.26	0.0%	1.30	1.29	0.8%
1324008062	8/4/2020	0.25	0.26	3.9%	2.13	2.17	1.9%
1230058020	8/4/2020	0.27	0.27	0.0%	1.16	1.20	3.4%
1324008029	8/4/2020	0.33	0.32	3.1%	5.78	5.63	2.6%
1230058008	8/4/2020	0.34	0.36	5.7%	0.76	0.77	1.3%
1230058116	8/4/2020	0.36	0.37	2.7%	0.58	0.57	1.7%
1324008052	8/4/2020	0.45	0.46	2.2%	1.88	2.00	6.2%
1230058527	8/4/2020	0.56	0.56	0.0%	2.35	2.33	0.9%
1230059005	8/5/2020	0.17	0.16	6.1%	6.97	6.80	2.5%
1230059020	8/5/2020	0.18	0.17	5.7%	1.15	1.08	6.3%
1230059116	8/5/2020	0.18	0.17	5.7%	2.47	2.40	2.9%
1230059221	8/5/2020	0.18	0.18	0.0%	2.76	2.66	3.7%
1230059103	8/5/2020	0.19	0.19	0.0%	1.53	1.53	0.0%
1230059167	8/5/2020	0.23	0.21	9.1%	2.79	2.59	7.4%
1230059236	8/5/2020	0.20	0.22	9.5%	1.19	0.75	45.4%
1230059069	8/5/2020	0.21	0.22	4.7%	1.06	1.05	0.9%
1230059187	8/5/2020	0.30	0.28	6.9%	2.31	2.37	2.6%
1324018173	8/5/2020	0.31	0.32	3.2%	1.33	1.32	0.8%
1230059023	8/5/2020	0.38	0.32	17.1%	3.02	3.02	0.0%
1230059152	8/5/2020	0.32	0.34	6.1%	1.90	2.03	6.6%
1230059199	8/5/2020	0.46	0.44	4.4%	2.85	2.78	2.5%
1324014540	8/10/2020	0.08	0.09	11.8%	2.16	2.07	4.3%
1230059332	8/10/2020	0.10	0.10	0.0%	5.57	5.80	4.0%
1324018273	8/10/2020	0.13	0.14	7.4%	1.19	1.19	0.0%
1230059393	8/10/2020	0.15	0.16	6.5%	1.08	1.09	0.9%
1324014243	8/10/2020	0.16	0.16	0.0%	3.32	3.33	0.3%
1324018225	8/10/2020	0.18	0.17	5.7%	1.57	1.51	3.9%
1324014362	8/10/2020	0.17	0.17	0.0%	1.57	1.51	3.9%
1324018255	8/10/2020	0.17	0.18	5.7%	1.82	1.92	5.3%
1230059274	8/10/2020	0.20	0.20	0.0%	2.96	2.99	1.0%
1230059262	8/10/2020	0.22	0.23	4.4%	0.99	0.95	4.1%
1324018177	8/10/2020	0.23	0.23	0.0%	1.23	1.23	0.0%
1324014308	8/10/2020	0.24	0.24	0.0%	4.72	4.71	0.2%
1324020173	8/10/2020	0.26	0.26	0.0%	2.09	2.07	1.0%
1230059348	8/10/2020	0.27	0.26	3.8%	2.10	2.08	1.0%
1324014189	8/10/2020	0.25	0.26	3.9%	4.46	4.55	2.0%
1324018184	8/10/2020	0.26	0.27	3.8%	2.06	2.06	0.0%
1324020183	8/10/2020	0.28	0.28	0.0%	2.51	2.57	2.4%
1324018243	8/10/2020	0.34	0.33	3.0%	1.37	1.42	3.6%
1230059297	8/10/2020	0.36	0.38	5.4%	1.74	1.86	6.7%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1231048098	8/10/2020	0.45	0.44	2.2%	0.47	0.46	2.2%
1324020056	8/10/2020	0.50	0.48	4.1%	1.92	1.89	1.6%
1324020232	8/10/2020	0.53	0.53	0.0%	1.71	1.71	0.0%
1230059098	8/10/2020	0.55	0.55	0.0%	1.39	1.38	0.7%
1324014426	8/10/2020	0.65	0.64	1.6%	0.46	0.46	0.0%
1230059322	8/10/2020	0.77	0.70	9.5%	1.68	1.59	5.5%
1231048112	8/10/2020	0.71	0.71	0.0%	1.13	1.15	1.8%
1324020064	8/12/2020	0.25	0.25	0.0%	2.15	2.01	6.7%
1324020097	8/12/2020	0.34	0.32	6.1%	1.26	1.29	2.4%
1324020108	8/12/2020	0.33	0.32	3.1%	2.85	2.87	0.7%
1324020128	8/12/2020	0.55	0.55	0.0%	2.14	2.13	0.5%
1324014338	8/13/2020	0.17	0.17	0.0%	0.99	1.01	2.0%
1324014505	8/13/2020	0.23	0.23	0.0%	1.26	1.30	3.1%
1324014161	8/13/2020	0.28	0.27	3.6%	0.81	0.80	1.2%
1324014273	8/13/2020	0.30	0.29	3.4%	0.80	0.78	2.5%
1324014390	8/13/2020	0.35	0.32	9.0%	1.41	1.30	8.1%
1324020029	8/14/2020	0.19	0.18	5.4%	3.27	3.34	2.1%
1324015043	8/14/2020	0.19	0.19	0.0%	1.43	1.48	3.4%
1231048080	8/14/2020	0.24	0.24	0.0%	0.49	0.49	0.0%
1324020085	8/14/2020	0.24	0.25	4.1%	2.14	2.22	3.7%
1324015100	8/14/2020	0.28	0.28	0.0%	1.33	1.36	2.2%
1231048036	8/14/2020	0.31	0.31	0.0%	0.81	0.81	0.0%
1231048093	8/14/2020	0.34	0.33	3.0%	0.29	0.30	3.4%
1324020093	8/14/2020	0.29	0.33	12.9%	2.38	2.37	0.4%
1235003024	8/14/2020	0.40	0.39	2.5%	0.26	0.25	3.9%
1231047129	8/14/2020	0.39	0.39	0.0%	0.36	0.34	5.7%
1231048053	8/14/2020	0.52	0.53	1.9%	0.32	0.33	3.1%
1231048075	8/14/2020	0.54	0.53	1.9%	1.38	1.38	0.0%
1235003132	8/14/2020	0.64	0.62	3.2%	0.20	0.20	0.0%
1235003102	8/14/2020	0.77	0.80	3.8%	0.37	0.38	2.7%
1235003100	8/14/2020	0.79	0.83	4.9%	0.69	0.73	5.6%
1324015082	8/14/2020	0.92	0.93	1.1%	0.18	0.17	5.7%
1231047006	8/16/2020	0.34	0.35	2.9%	0.28	0.32	13.3%
1231047014	8/16/2020	0.38	0.38	0.0%	0.35	0.34	2.9%
1231047038	8/16/2020	0.58	0.59	1.7%	0.45	0.45	0.0%
1223001005	8/17/2020	0.21	0.21	0.0%	0.54	0.54	0.0%
1323002309	8/17/2020	0.22	0.22	0.0%	1.44	1.42	1.4%
1223001013	8/17/2020	0.24	0.25	4.1%	0.52	0.51	1.9%
1223001079	8/17/2020	0.24	0.25	4.1%	0.96	1.00	4.1%
1223001203	8/17/2020	0.24	0.25	4.1%	2.24	2.20	1.8%
1323002223	8/17/2020	0.25	0.25	0.0%	2.19	2.21	0.9%
1223001087	8/17/2020	0.25	0.26	3.9%	1.23	1.21	1.6%
1223001058	8/17/2020	0.27	0.27	0.0%	0.47	0.47	0.0%
1223001112	8/17/2020	0.30	0.30	0.0%	1.11	1.12	0.9%
1231047117	8/17/2020	0.35	0.34	2.9%	0.18	0.18	0.0%
1223001032	8/17/2020	0.34	0.34	0.0%	1.69	1.72	1.8%
1223001212	8/17/2020	0.47	0.35	29.3%	2.18	1.58	31.9%
1223001120	8/17/2020	0.40	0.39	2.5%	1.84	1.79	2.8%
1223001223	8/17/2020	0.43	0.42	2.4%	1.82	1.75	3.9%
1223001186	8/17/2020	0.42	0.43	2.4%	2.36	2.36	0.0%
1324015126	8/17/2020	0.44	0.44	0.0%	1.15	1.13	1.8%
1231047060	8/17/2020	0.45	0.47	4.3%	0.16	0.16	0.0%
1223001153	8/17/2020	0.52	0.51	1.9%	2.29	2.30	0.4%
1223001311	8/17/2020	0.55	0.54	1.8%	1.92	1.83	4.8%
1223001167	8/17/2020	0.84	0.83	1.2%	2.64	2.63	0.4%
1231046191	8/19/2020	0.35	0.36	2.8%	0.77	0.74	4.0%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1231046176	8/19/2020	0.59	0.63	6.6%	0.70	0.76	8.2%
1231046225	8/19/2020	0.77	0.78	1.3%	0.67	0.67	0.0%
1323002169	8/21/2020	0.13	0.14	7.4%	0.35	0.33	5.9%
1323002250	8/21/2020	0.21	0.20	4.9%	2.06	2.09	1.4%
1323002206	8/21/2020	0.20	0.20	0.0%	2.46	2.43	1.2%
1323003159	8/21/2020	0.20	0.22	9.5%	4.31	4.29	0.5%
1231046200	8/21/2020	0.25	0.25	0.0%	0.28	0.26	7.4%
1231046148	8/21/2020	0.26	0.27	3.8%	0.29	0.27	7.1%
1231046032	8/21/2020	0.28	0.27	3.6%	0.69	0.68	1.5%
1231046090	8/21/2020	0.29	0.29	0.0%	0.11	0.11	0.0%
1323002174	8/21/2020	0.39	0.29	29.4%	1.88	1.56	18.6%
1231046014	8/21/2020	0.32	0.32	0.0%	0.52	0.53	1.9%
1231046034	8/21/2020	0.37	0.37	0.0%	0.51	0.49	4.0%
1323003124	8/21/2020	0.38	0.39	2.6%	2.40	2.49	3.7%
1231047022	8/21/2020	0.38	0.41	7.6%	0.36	0.38	5.4%
1231046116	8/21/2020	0.44	0.41	7.1%	0.68	0.65	4.5%
1231047069	8/21/2020	0.43	0.43	0.0%	0.38	0.39	2.6%
1231047103	8/21/2020	0.46	0.46	0.0%	0.22	0.23	4.4%
1231046059	8/21/2020	0.45	0.46	2.2%	0.59	0.58	1.7%
1323003099	8/21/2020	0.45	0.46	2.2%	2.24	2.20	1.8%
1323003144	8/21/2020	0.45	0.47	4.3%	2.95	2.98	1.0%
1231046084	8/21/2020	0.47	0.49	4.2%	0.81	0.80	1.2%
1231046120	8/21/2020	0.53	0.52	1.9%	0.61	0.57	6.8%
1323003193	8/21/2020	0.54	0.52	3.8%	2.43	2.47	1.6%
1323003116	8/21/2020	0.60	0.61	1.7%	1.39	1.31	5.9%
1323003073	8/21/2020	0.63	0.61	3.2%	2.90	2.78	4.2%
1323003178	8/21/2020	0.66	0.63	4.7%	2.60	2.56	1.6%
1323002159	8/21/2020	0.43	0.97	77.1%	1.62	3.61	76.1%
1333099101	8/22/2020	0.43	0.44	2.3%	0.95	0.93	2.1%
1333099020	8/22/2020	0.45	0.47	4.3%	2.37	2.28	3.9%
1333099055	8/22/2020	0.52	0.51	1.9%	0.88	0.90	2.2%
1333099078	8/22/2020	0.57	0.56	1.8%	1.56	1.51	3.3%
1333099036	8/22/2020	0.59	0.61	3.3%	0.61	0.59	3.3%
1333099082	8/22/2020	0.97	0.94	3.1%	0.95	0.93	2.1%
1324021203	8/24/2020	0.13	0.13	0.0%	1.03	1.04	1.0%
1323002045	8/24/2020	0.19	0.19	0.0%	1.72	1.75	1.7%
1324021125	8/24/2020	0.19	0.19	0.0%	2.92	2.84	2.8%
1323003022	8/24/2020	0.21	0.21	0.0%	0.74	0.73	1.4%
1324021259	8/24/2020	0.20	0.21	4.9%	2.04	2.08	1.9%
1323002241	8/24/2020	0.24	0.25	4.1%	1.72	1.78	3.4%
1324021158	8/24/2020	0.28	0.27	3.6%	2.45	2.37	3.3%
1324021185	8/24/2020	0.27	0.27	0.0%	3.10	3.08	0.6%
1324021234	8/24/2020	0.29	0.31	6.7%	2.12	2.27	6.8%
1323002025	8/24/2020	0.35	0.34	2.9%	1.04	1.06	1.9%
1323002183	8/24/2020	0.36	0.35	2.8%	1.87	1.93	3.2%
1323002062	8/24/2020	0.36	0.35	2.8%	2.99	3.00	0.3%
1231046174	8/24/2020	0.39	0.38	2.6%	0.52	0.53	1.9%
1323002014	8/24/2020	0.43	0.43	0.0%	0.69	0.71	2.9%
1323002145	8/24/2020	0.48	0.47	2.1%	2.66	2.60	2.3%
1324021054	8/24/2020	0.51	0.53	3.8%	1.75	1.76	0.6%
1231046137	8/24/2020	0.54	0.54	0.0%	0.33	0.33	0.0%
1324021066	8/24/2020	0.53	0.54	1.9%	2.12	2.12	0.0%
1323002112	8/24/2020	0.57	0.56	1.8%	2.38	2.42	1.7%
1323003056	8/24/2020	0.58	0.58	0.0%	2.02	1.99	1.5%
1323002121	8/24/2020	0.59	0.59	0.0%	2.30	2.29	0.4%
1323002096	8/24/2020	0.62	0.62	0.0%	3.16	3.20	1.3%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1323002086	8/24/2020	0.65	0.65	0.0%	2.65	2.66	0.4%
1323003005	8/24/2020	0.49	0.67	31.0%	1.93	1.75	9.8%
1324021034	8/24/2020	0.69	0.68	1.5%	0.99	0.99	0.0%
1323003027	8/24/2020	0.79	0.79	0.0%	2.08	2.08	0.0%
1324021110	8/27/2020	0.14	0.14	0.0%	1.73	1.77	2.3%
1324021087	8/27/2020	0.14	0.15	6.9%	2.46	2.48	0.8%
1324021175	8/27/2020	0.24	0.23	4.3%	2.86	2.85	0.4%
1324021022	8/27/2020	0.25	0.25	0.0%	3.48	3.16	9.6%
1324021084	8/27/2020	0.32	0.32	0.0%	1.24	1.21	2.4%
1324021005	8/27/2020	0.90	0.90	0.0%	1.56	1.58	1.3%
1230060078	8/28/2020	0.06	0.06	0.0%	4.11	4.06	1.2%
1230060132	8/28/2020	0.09	0.08	11.8%	2.62	2.61	0.4%
1324024107	8/28/2020	0.09	0.09	0.0%	1.00	1.11	10.4%
1230060074	8/28/2020	0.08	0.09	11.8%	4.02	3.99	0.7%
1230061042	8/28/2020	0.11	0.14	24.0%	3.10	2.99	3.6%
1322001006	8/28/2020	0.20	0.20	0.0%	0.23	0.10	78.8%
1230061015	8/28/2020	0.21	0.22	4.7%	1.57	1.58	0.6%
1230062262	8/28/2020	0.22	0.22	0.0%	2.05	2.12	3.4%
1230060542	8/28/2020	0.20	0.22	9.5%	3.54	3.73	5.2%
1324022017	8/28/2020	0.24	0.24	0.0%	1.41	1.42	0.7%
1230060126	8/28/2020	0.24	0.24	0.0%	1.79	1.72	4.0%
1230062254	8/28/2020	0.25	0.25	0.0%	0.20	0.19	5.1%
1230060086	8/28/2020	0.24	0.25	4.1%	0.96	0.95	1.0%
1322001021	8/28/2020	0.24	0.25	4.1%	2.29	2.31	0.9%
1230060101	8/28/2020	0.26	0.26	0.0%	0.96	0.94	2.1%
1323004143	8/28/2020	0.27	0.26	3.8%	2.12	2.07	2.4%
1324028015	8/28/2020	0.28	0.27	3.6%	2.74	2.74	0.0%
1324024039	8/28/2020	0.29	0.29	0.0%	1.33	1.34	0.7%
1324022112	8/28/2020	0.32	0.31	3.2%	1.23	1.21	1.6%
1324028081	8/28/2020	0.32	0.31	3.2%	2.36	2.34	0.9%
1324022062	8/28/2020	0.31	0.32	3.2%	1.97	1.95	1.0%
1323004161	8/28/2020	0.34	0.35	2.9%	2.31	2.42	4.7%
1324028076	8/28/2020	0.36	0.36	0.0%	2.31	2.32	0.4%
1324022105	8/28/2020	0.38	0.37	2.7%	1.55	1.41	9.5%
1324028041	8/28/2020	0.40	0.40	0.0%	1.63	1.63	0.0%
1324028047	8/28/2020	0.43	0.41	4.8%	1.59	1.58	0.6%
1323004112	8/28/2020	0.41	0.41	0.0%	2.87	2.90	1.0%
1324022147	8/28/2020	0.42	0.42	0.0%	1.46	1.42	2.8%
1324022097	8/28/2020	0.44	0.43	2.3%	1.49	1.45	2.7%
1324028067	8/28/2020	0.44	0.45	2.2%	2.74	2.56	6.8%
1324028053	8/28/2020	0.47	0.47	0.0%	1.17	1.10	6.2%
1324022150	8/28/2020	0.46	0.49	6.3%	0.81	0.85	4.8%
1323004034	8/28/2020	0.49	0.49	0.0%	3.05	3.07	0.7%
1323004068	8/28/2020	0.51	0.53	3.8%	2.33	2.38	2.1%
1324022012	8/28/2020	0.47	0.54	13.9%	1.32	1.61	19.8%
1324024117	8/28/2020	0.53	0.55	3.7%	0.84	0.84	0.0%
1323004126	8/28/2020	0.68	0.68	0.0%	2.74	2.77	1.1%
1230060520	8/28/2020	0.68	0.69	1.5%	1.06	1.05	0.9%
1230062182	8/28/2020	0.74	0.76	2.7%	1.35	1.39	2.9%
1324024089	8/28/2020	0.80	0.79	1.3%	0.42	0.42	0.0%
1323004105	8/28/2020	0.82	0.81	1.2%	2.19	2.19	0.0%
1324027050	8/30/2020	0.32	0.29	9.8%	2.84	2.74	3.6%
1230062191	8/30/2020	0.28	0.30	6.9%	2.02	2.05	1.5%
1324024103	8/30/2020	0.32	0.32	0.0%	0.73	0.74	1.4%
1324027051	8/30/2020	0.33	0.32	3.1%	2.29	2.27	0.9%
1323005100	8/30/2020	0.32	0.32	0.0%	2.53	2.55	0.8%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1230062216	8/30/2020	0.34	0.33	3.0%	2.02	2.01	0.5%
1230062188	8/30/2020	0.35	0.34	2.9%	1.45	1.41	2.8%
1324024047	8/30/2020	0.38	0.36	5.4%	0.77	0.76	1.3%
1230062143	8/30/2020	0.35	0.36	2.8%	1.48	1.46	1.4%
1230062207	8/30/2020	0.50	0.49	2.0%	0.47	0.46	2.2%
1230062147	8/30/2020	0.50	0.49	2.0%	2.08	2.01	3.4%
1324027026	8/30/2020	0.54	0.54	0.0%	2.77	2.83	2.1%
1323005074	8/30/2020	0.53	0.54	1.9%	3.58	3.84	7.0%
1230062054	8/30/2020	0.61	0.62	1.6%	1.22	1.22	0.0%
1324027086	8/30/2020	0.63	0.64	1.6%	3.28	3.36	2.4%
1230062062	8/30/2020	0.76	0.77	1.3%	1.20	1.21	0.8%
1230062007	8/30/2020	0.90	0.87	3.4%	1.79	1.74	2.8%
1324027042	8/30/2020	0.92	0.94	2.2%	7.88	8.01	1.6%
1324024054	8/31/2020	0.23	0.24	4.3%	0.93	1.00	7.3%
1324024005	8/31/2020	0.25	0.25	0.0%	0.98	1.02	4.0%
1323006236	9/1/2020	0.10	0.10	0.0%	1.60	1.62	1.2%
1324027014	9/1/2020	0.18	0.18	0.0%	2.04	1.97	3.5%
1333096071	9/1/2020	0.20	0.19	5.1%	0.18	0.18	0.0%
1324027008	9/1/2020	0.21	0.22	4.7%	1.87	1.92	2.6%
1323005005	9/1/2020	0.22	0.22	0.0%	2.32	2.30	0.9%
1323006216	9/1/2020	0.23	0.23	0.0%	0.61	0.60	1.7%
1432097090	9/1/2020	0.27	0.27	0.0%	0.72	0.74	2.7%
1432097353	9/1/2020	0.27	0.28	3.6%	3.04	3.00	1.3%
1323005037	9/1/2020	0.31	0.30	3.3%	2.46	2.47	0.4%
1333096158	9/1/2020	0.32	0.31	3.2%	1.36	1.29	5.3%
1323005021	9/1/2020	0.31	0.31	0.0%	2.13	2.13	0.0%
1432097361	9/1/2020	0.36	0.36	0.0%	0.71	0.71	0.0%
1323006199	9/1/2020	0.38	0.37	2.7%	2.11	2.04	3.4%
1230065243	9/1/2020	0.40	0.39	2.5%	1.68	1.63	3.0%
1432097298	9/1/2020	0.44	0.43	2.3%	2.13	2.14	0.5%
1333096153	9/1/2020	0.45	0.44	2.2%	0.36	0.35	2.8%
1333096234	9/1/2020	0.49	0.48	2.1%	0.51	0.53	3.8%
1333096007	9/1/2020	0.53	0.50	5.8%	0.63	0.60	4.9%
1333096263	9/1/2020	0.53	0.52	1.9%	0.80	0.87	8.4%
1333096120	9/1/2020	0.51	0.53	3.8%	0.50	0.48	4.1%
1230065134	9/1/2020	0.54	0.53	1.9%	1.66	1.62	2.4%
1323005047	9/1/2020	0.53	0.54	1.9%	2.15	2.17	0.9%
1333096028	9/1/2020	0.58	0.57	1.7%	0.67	0.69	2.9%
1432097331	9/1/2020	0.63	0.61	3.2%	2.95	2.90	1.7%
1230065193	9/1/2020	0.68	0.69	1.5%	0.61	0.64	4.8%
1230065200	9/1/2020	0.67	0.69	2.9%	2.08	2.13	2.4%
1230065223	9/1/2020	0.75	0.77	2.6%	1.47	1.45	1.4%
1432097117	9/1/2020	0.77	0.78	1.3%	2.45	2.43	0.8%
1323005068	9/3/2020	0.32	0.31	3.2%	2.51	2.53	0.8%
1323007165	9/4/2020	0.14	0.14	0.0%	3.57	3.51	1.7%
1324026005	9/4/2020	0.16	0.15	6.5%	1.12	1.15	2.6%
1324026080	9/4/2020	0.21	0.20	4.9%	0.82	0.82	0.0%
1230065240	9/4/2020	0.22	0.20	9.5%	1.15	1.12	2.6%
1323006292	9/4/2020	0.22	0.22	0.0%	2.43	2.40	1.2%
1323006081	9/4/2020	0.24	0.23	4.3%	1.66	1.75	5.3%
1323006169	9/4/2020	0.24	0.23	4.3%	2.23	2.21	0.9%
1323007176	9/4/2020	0.23	0.24	4.3%	2.44	2.61	6.7%
1323007200	9/4/2020	0.24	0.25	4.1%	2.30	2.29	0.4%
1323007143	9/4/2020	0.25	0.26	3.9%	0.10	0.09	10.5%
1323006055	9/4/2020	0.26	0.26	0.0%	2.08	2.06	1.0%
1323007132	9/4/2020	0.27	0.28	3.6%	2.09	2.05	1.9%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1323006275	9/4/2020	0.28	0.28	0.0%	2.31	2.31	0.0%
1323007116	9/4/2020	0.31	0.29	6.7%	2.40	2.43	1.2%
1323006172	9/4/2020	0.29	0.29	0.0%	2.64	2.56	3.1%
1323006153	9/4/2020	0.32	0.32	0.0%	1.38	1.39	0.7%
1323006183	9/4/2020	0.34	0.34	0.0%	1.70	1.71	0.6%
1323006095	9/4/2020	0.34	0.34	0.0%	1.78	1.86	4.4%
1323006049	9/4/2020	0.35	0.35	0.0%	1.92	2.01	4.6%
1230065040	9/4/2020	0.38	0.36	5.4%	0.40	0.42	4.9%
1323006072	9/4/2020	0.39	0.39	0.0%	1.98	1.95	1.5%
1230065114	9/4/2020	0.41	0.40	2.5%	0.10	0.08	22.2%
1323006137	9/4/2020	0.41	0.41	0.0%	1.79	1.77	1.1%
1323006113	9/4/2020	0.44	0.43	2.3%	1.95	1.88	3.7%
1323006042	9/4/2020	0.43	0.44	2.3%	1.86	1.85	0.5%
1323006161	9/4/2020	0.45	0.44	2.2%	1.84	1.87	1.6%
1230065100	9/4/2020	0.44	0.46	4.4%	0.05	0.05	0.0%
1323006025	9/4/2020	0.51	0.50	2.0%	2.41	2.42	0.4%
1230065112	9/4/2020	0.51	0.52	1.9%	0.04	0.04	0.0%
1230065055	9/4/2020	0.57	0.56	1.8%	0.63	0.64	1.6%
1230065086	9/4/2020	0.62	0.61	1.6%	1.55	1.51	2.6%
1230065126	9/4/2020	0.68	0.68	0.0%	0.96	0.99	3.1%
1230065031	9/4/2020	0.71	0.72	1.4%	0.05	0.05	0.0%
1324026068	9/6/2020	0.11	0.11	0.0%	1.83	1.79	2.2%
1324026026	9/6/2020	0.16	0.16	0.0%	1.58	1.69	6.7%
1323007022	9/6/2020	0.20	0.20	0.0%	2.25	2.40	6.5%
1324026064	9/6/2020	0.22	0.21	4.7%	0.81	0.81	0.0%
1323007071	9/6/2020	0.23	0.24	4.3%	0.34	0.34	0.0%
1323007082	9/6/2020	0.24	0.24	0.0%	2.69	2.66	1.1%
1323007005	9/6/2020	0.24	0.25	4.1%	2.12	2.15	1.4%
1323007101	9/6/2020	0.26	0.25	3.9%	2.43	2.36	2.9%
1323007045	9/6/2020	0.28	0.27	3.6%	1.75	1.79	2.3%
1432097229	9/6/2020	0.28	0.28	0.0%	0.95	0.96	1.0%
1323007159	9/6/2020	0.29	0.29	0.0%	2.41	2.37	1.7%
1432097306	9/6/2020	0.30	0.31	3.3%	0.61	0.61	0.0%
1324026011	9/6/2020	0.34	0.34	0.0%	1.05	1.08	2.8%
1432097232	9/6/2020	0.38	0.40	5.1%	0.96	0.92	4.3%
1432097244	9/6/2020	0.41	0.41	0.0%	1.27	1.25	1.6%
1432097102	9/6/2020	0.48	0.49	2.1%	1.00	0.99	1.0%
1432097115	9/6/2020	0.49	0.50	2.0%	2.24	2.19	2.3%
1432097163	9/6/2020	0.57	0.57	0.0%	1.69	1.63	3.6%
1323007231	9/7/2020	0.29	0.29	0.0%	1.45	1.49	2.7%
1323016117	9/8/2020	0.16	0.15	6.5%	2.44	2.44	0.0%
1323007250	9/8/2020	0.17	0.17	0.0%	3.25	3.39	4.2%
1323016059	9/8/2020	0.17	0.18	5.7%	2.51	2.47	1.6%
1323007260	9/8/2020	0.20	0.19	5.1%	0.10	0.10	0.0%
1323007244	9/8/2020	0.26	0.26	0.0%	1.87	1.88	0.5%
1323016030	9/8/2020	0.28	0.27	3.6%	3.34	3.39	1.5%
1323016015	9/8/2020	0.31	0.31	0.0%	2.91	2.88	1.0%
1323007264	9/8/2020	0.34	0.34	0.0%	1.22	1.24	1.6%
1323016073	9/8/2020	0.36	0.35	2.8%	2.67	2.66	0.4%
1323016034	9/8/2020	0.43	0.44	2.3%	3.23	3.34	3.3%
1323016110	9/8/2020	0.48	0.48	0.0%	2.46	2.51	2.0%
1323016148	9/8/2020	0.59	0.62	5.0%	1.48	1.53	3.3%
1323016142	9/8/2020	0.75	0.75	0.0%	2.05	2.08	1.5%
1323016098	9/8/2020	0.77	0.77	0.0%	2.03	2.06	1.5%
1323008178	9/9/2020	0.10	0.10	0.0%	1.97	2.06	4.5%
1323008131	9/9/2020	0.11	0.11	0.0%	1.95	1.96	0.5%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1323008125	9/9/2020	0.14	0.14	0.0%	3.29	3.29	0.0%
1323008190	9/9/2020	0.29	0.29	0.0%	1.66	1.68	1.2%
1323008119	9/9/2020	0.33	0.32	3.1%	0.13	0.14	7.4%
1323008114	9/9/2020	0.53	0.54	1.9%	0.90	0.90	0.0%
1432097346	9/9/2020	0.70	0.71	1.4%	0.19	0.19	0.0%
1323008005	9/10/2020	0.19	0.18	5.4%	2.96	2.96	0.0%
1323008026	9/10/2020	0.20	0.20	0.0%	2.17	2.19	0.9%
1323008070	9/10/2020	0.26	0.26	0.0%	1.74	1.70	2.3%
1323008013	9/10/2020	0.25	0.27	7.7%	1.34	1.36	1.5%
1323008066	9/10/2020	0.35	0.34	2.9%	3.17	3.17	0.0%
1323008040	9/10/2020	0.36	0.35	2.8%	1.66	1.66	0.0%
1323008061	9/10/2020	0.58	0.59	1.7%	0.86	0.85	1.2%
1323009124	9/12/2020	0.24	0.25	0.0%	1.58	1.57	2.0%
1323009160	9/12/2020	0.23	0.23	0.0%	2.77	2.68	3.3%
1323009192	9/12/2020	0.16	0.16	4.1%	5.54	5.43	0.6%
1323009244	9/12/2020	0.62	0.62	0.0%	1.67	1.68	0.6%
1323009034	9/14/2020	0.42	0.43	8.0%	1.12	1.12	1.3%
1323009058	9/14/2020	0.39	0.39	0.0%	0.94	0.96	4.2%
1323009073	9/14/2020	0.46	0.45	5.7%	1.77	1.80	0.0%
1323009324	9/14/2020	0.17	0.17	0.0%	1.92	1.94	1.0%
1323009340	9/14/2020	0.31	0.29	5.7%	1.20	1.15	1.8%
1323012193	9/14/2020	0.16	0.16	0.0%	1.17	1.22	1.5%
1323012198	9/14/2020	0.13	0.12	5.1%	2.29	2.32	2.0%
1323012242	9/14/2020	0.38	0.39	0.0%	2.83	2.87	2.6%
1323012255	9/14/2020	0.18	0.17	6.7%	1.24	1.24	4.3%
1323012273	9/14/2020	0.17	0.18	0.0%	1.67	1.70	2.1%
1323012283	9/14/2020	0.20	0.19	2.6%	1.48	1.51	1.4%
1323012292	9/14/2020	0.24	0.24	2.4%	2.66	2.73	0.0%
1323012316	9/14/2020	0.19	0.19	2.2%	1.29	1.31	1.7%
1230063005	9/16/2020	0.45	0.44	0.0%	0.78	0.78	1.0%
1230063022	9/16/2020	0.16	0.16	7.4%	0.15	0.15	3.5%
1230063034	9/16/2020	0.45	0.43	0.0%	0.82	0.82	2.9%
1230063052	9/16/2020	0.54	0.51	0.0%	0.56	0.53	2.1%
1230063053	9/16/2020	0.52	0.50	4.9%	0.59	0.59	1.1%
1230063062	9/16/2020	0.17	0.18	0.0%	0.15	0.15	0.7%
1230063073	9/16/2020	0.26	0.27	4.3%	0.48	0.45	2.6%
1230063107	9/16/2020	0.08	0.09	0.0%	0.13	0.12	0.9%
1230063110	9/16/2020	0.19	0.19	2.7%	0.15	0.14	10.3%
1230063137	9/16/2020	0.40	0.39	0.0%	0.57	0.54	1.7%
1230063151	9/16/2020	0.30	0.34	2.2%	0.51	0.54	2.0%
1230063179	9/16/2020	0.45	0.44	2.0%	0.52	0.52	0.0%
1230063199	9/16/2020	0.50	0.49	11.8%	0.76	0.76	8.0%
1230063230	9/16/2020	0.52	0.51	0.0%	0.43	0.42	0.0%
1230063270	9/16/2020	0.42	0.42	5.7%	0.44	0.43	0.0%
1230063411	9/16/2020	0.54	0.51	0.0%	1.10	1.09	6.9%
1230063453	9/16/2020	0.31	0.31	3.8%	0.79	0.78	6.5%
1230063473	9/16/2020	0.50	0.50	4.5%	1.03	1.01	0.0%
1230063483	9/16/2020	0.46	0.47	3.9%	1.18	1.23	0.0%
1230063494	9/16/2020	0.84	0.83	1.9%	1.22	1.23	2.4%
1323011005	9/16/2020	0.21	0.20	5.7%	1.77	1.79	5.5%
1323011017	9/16/2020	0.26	0.26	1.7%	1.13	1.14	2.4%
1323011023	9/16/2020	0.45	0.44	0.0%	1.49	1.46	1.3%
1323011049	9/16/2020	0.38	0.38	12.5%	1.17	1.15	5.7%
1323011060	9/16/2020	0.17	0.17	2.5%	0.94	0.96	5.4%
1323011094	9/16/2020	0.24	0.23	0.0%	1.93	1.88	2.3%
1323011106	9/16/2020	0.13	0.13	2.2%	1.05	1.04	0.0%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1323011125	9/16/2020	0.38	0.37	2.2%	2.14	1.93	0.0%
1323011152	9/16/2020	0.16	0.16	2.2%	1.77	1.72	4.1%
1323011153	9/16/2020	0.13	0.14	0.0%	1.98	2.05	2.0%
1323011176	9/16/2020	0.22	0.22	5.7%	1.38	1.37	0.9%
1432089315	9/16/2020	2.38	2.42	1.2%	0.81	0.83	0.8%
1230063340	9/18/2020	0.44	0.45	2.2%	0.28	0.29	3.5%
1230063401	9/18/2020	0.33	0.33	0.0%	0.21	0.19	10.0%
1432089041	9/19/2020	2.45	2.45	1.2%	0.80	0.79	0.0%
1432089179	9/19/2020	2.07	2.09	1.0%	2.85	2.88	1.0%
1432089491	9/19/2020	0.81	0.80	0.0%	0.16	0.16	1.3%
1432089017	9/20/2020	1.29	1.27	0.0%	0.62	0.64	1.9%
1432089062	9/20/2020	1.07	1.08	5.4%	0.99	1.00	0.8%
1432089080	9/20/2020	1.59	1.58	0.0%	1.80	1.80	8.3%
1432089081	9/20/2020	2.70	2.66	0.9%	3.14	3.11	1.0%
1432089269	9/20/2020	0.55	0.54	0.9%	1.48	1.55	2.5%
1432089280	9/20/2020	0.99	1.02	0.0%	2.14	2.23	0.0%
1432089346	9/20/2020	1.18	1.18	1.6%	0.75	0.75	3.2%
1432089348	9/20/2020	0.69	0.69	0.7%	0.53	0.52	0.0%
1432089350	9/20/2020	0.95	0.90	0.0%	1.25	1.24	0.0%
1432089416	9/20/2020	1.11	1.10	0.6%	0.40	0.39	0.0%
1432089453	9/20/2020	2.28	2.29	0.4%	0.98	1.02	2.1%
1432089458	9/20/2020	1.37	1.36	0.4%	0.95	0.95	4.0%
1432089496	9/20/2020	1.47	1.47	1.2%	0.20	0.20	1.3%
1432089522	9/20/2020	2.25	2.24	1.5%	0.95	0.93	1.0%
1432089528	9/20/2020	2.49	2.46	1.8%	0.78	0.79	4.6%
1432089531	9/20/2020	0.92	0.92	3.0%	0.23	0.25	4.1%
1230067006	9/24/2020	0.27	0.26	0.0%	0.37	0.37	1.4%
1230067023	9/24/2020	0.03	0.03	0.0%	2.77	2.94	1.3%
1230067042	9/24/2020	0.30	0.30	2.8%	1.43	1.44	1.2%
1230067051	9/24/2020	0.03	0.04	6.1%	1.63	1.70	8.1%
1230067070	9/24/2020	0.29	0.28	0.0%	0.32	0.34	1.6%
1230067082	9/24/2020	0.36	0.35	2.5%	2.53	2.56	3.6%
1230067120	9/24/2020	0.04	0.04	2.3%	6.29	6.20	0.8%
1230067137	9/24/2020	0.09	0.09	2.2%	3.84	3.89	1.2%
1230068070	9/24/2020	0.70	0.68	2.2%	1.40	1.45	1.2%
1230068100	9/24/2020	0.34	0.36	0.0%	0.32	0.31	4.2%
1230068154	9/24/2020	0.42	0.40	0.0%	1.32	1.30	6.0%
1230068186	9/24/2020	0.70	0.68	28.6%	1.53	1.40	4.2%
1230068200	9/24/2020	0.48	0.43	3.5%	0.60	0.56	0.0%
1230068209	9/24/2020	0.17	0.17	2.9%	0.27	0.27	2.2%
1230068219	9/24/2020	0.52	0.50	10.3%	0.44	0.45	4.1%
1230068245	9/24/2020	0.94	0.95	0.0%	0.81	0.81	2.1%
1323010021	9/24/2020	0.29	0.28	6.7%	1.19	1.19	0.0%
1323010027	9/24/2020	0.50	0.50	0.0%	0.56	0.61	1.1%
1323010034	9/24/2020	0.35	0.34	0.0%	1.41	1.38	0.9%
1323010056	9/24/2020	0.47	0.47	0.0%	0.70	0.73	3.6%
1323010060	9/24/2020	0.45	0.44	18.2%	0.82	0.81	1.7%
1323010061	9/24/2020	0.40	0.39	11.0%	1.14	1.10	6.9%
1323010118	9/24/2020	0.41	0.41	3.9%	0.48	0.47	2.2%
1323010142	9/24/2020	0.44	0.45	6.4%	0.83	0.82	6.0%
1323010166	9/24/2020	0.35	0.35	0.5%	1.28	1.30	1.7%
1323010228	9/24/2020	0.44	0.43	0.0%	1.30	1.31	0.0%
1323010322	9/24/2020	0.17	0.16	8.3%	1.41	1.30	0.9%
1323017059	9/24/2020	0.43	0.46	3.8%	1.10	1.10	0.0%
1323017076	9/24/2020	0.40	0.41	3.5%	2.00	2.01	6.1%
1323017086	9/24/2020	0.34	0.35	0.0%	1.95	1.97	0.7%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1323017091	9/24/2020	0.50	0.49	10.2%	1.95	1.99	12.3%
1323017102	9/24/2020	0.37	0.33	11.4%	1.65	1.50	9.5%
1323017118	9/24/2020	0.34	0.34	0.0%	2.20	2.19	0.5%
1323017159	9/24/2020	0.41	0.37	2.9%	1.76	1.69	1.0%
1323017181	9/24/2020	0.12	0.10	5.7%	1.81	1.78	3.2%
1323017186	9/24/2020	0.28	0.31	4.9%	1.45	1.64	1.5%
1323017205	9/24/2020	0.23	0.25	2.5%	2.26	2.28	0.5%
1432089006	9/24/2020	1.99	2.00	2.0%	4.66	4.70	2.0%
1432089093	9/24/2020	1.93	1.92	0.0%	2.91	2.83	8.5%
1432089306	9/24/2020	2.09	2.08	2.9%	1.77	1.74	8.9%
1432089379	9/24/2020	1.94	1.82	2.9%	1.89	1.78	3.5%
1432089381	9/24/2020	2.41	2.41	1.1%	1.38	1.43	0.0%
1433094042	9/24/2020	1.77	1.79	12.7%	7.07	7.13	11.5%
1433094174	9/24/2020	1.34	1.18	1.3%	5.07	4.52	1.5%
1433094177	9/24/2020	1.52	1.50	1.2%	5.47	5.39	0.2%
1433094231	9/24/2020	2.15	2.15	1.1%	4.52	4.56	0.8%
1433094301	9/24/2020	1.66	2.38	0.0%	5.96	5.59	1.6%
1433094349	9/24/2020	1.92	1.92	0.5%	2.46	2.50	2.8%
1433094422	9/24/2020	1.68	1.66	0.5%	5.04	5.05	0.9%
1433094486	9/24/2020	1.59	1.59	35.6%	1.91	1.89	6.4%
1432089178	9/25/2020	2.44	2.33	4.6%	2.68	2.52	6.2%
1432089177	9/26/2020	2.21	2.17	1.8%	4.83	4.75	1.7%
1230068053	9/27/2020	0.53	0.48	19.1%	0.38	0.34	19.0%
1230068101	9/27/2020	0.25	0.25	0.7%	0.26	0.28	2.3%
1230068118	9/27/2020	0.35	0.35	0.0%	0.39	0.40	4.1%
1230068204	9/27/2020	0.15	0.21	3.8%	0.20	0.20	1.9%
1323018041	9/27/2020	0.25	0.25	0.0%	1.48	1.48	3.3%
1323018054	9/27/2020	0.20	0.20	0.0%	0.53	0.51	0.0%
1323018101	9/27/2020	0.26	0.27	7.4%	0.25	0.26	7.4%
1323018110	9/27/2020	0.15	0.15	0.0%	1.86	1.81	3.8%
1323018119	9/27/2020	0.16	0.16	33.3%	0.67	0.65	0.0%
1323018133	9/27/2020	0.11	0.10	4.7%	1.17	1.19	0.0%
1323018156	9/27/2020	0.18	0.18	8.0%	2.83	2.83	6.1%
1323018162	9/27/2020	0.24	0.24	0.0%	1.70	1.70	4.9%
1323021007	9/27/2020	0.13	0.13	19.4%	1.24	1.20	0.0%
1323021019	9/27/2020	0.21	0.22	0.0%	0.05	0.05	2.5%
1323021057	9/27/2020	0.19	0.19	9.9%	1.26	1.29	11.1%
1323021068	9/27/2020	0.30	0.29	9.5%	2.00	2.02	1.7%
1323021089	9/27/2020	0.31	0.31	0.0%	2.67	2.60	2.5%
1323021116	9/27/2020	0.33	0.33	0.0%	0.21	0.20	2.7%
1323021135	9/27/2020	0.36	0.37	0.0%	2.63	2.60	3.0%
1323021154	9/27/2020	0.24	0.26	0.0%	0.17	0.16	0.0%
1323021163	9/27/2020	0.19	0.20	0.0%	2.67	2.53	2.4%
1323021196	9/27/2020	0.13	0.14	5.1%	0.14	0.13	5.4%
1323022008	9/27/2020	0.14	0.14	4.7%	0.06	0.06	9.5%
1323022023	9/27/2020	0.28	0.34	4.7%	0.45	0.45	2.3%
1323022053	9/27/2020	0.21	0.22	0.0%	0.43	0.44	0.0%
1323022068	9/27/2020	0.21	0.22	0.0%	0.10	0.11	7.4%
1323022128	9/27/2020	0.34	0.34	0.0%	1.55	1.59	0.0%
1323022142	9/27/2020	0.14	0.14	3.8%	1.97	2.02	3.9%
1323022163	9/27/2020	0.35	0.35	3.4%	2.37	2.40	1.0%
1433094394	9/27/2020	1.86	1.79	0.0%	2.61	2.56	2.7%
1433094505	9/27/2020	1.36	1.35	0.0%	1.69	1.73	2.5%
1433094522	9/27/2020	0.89	0.90	0.0%	2.46	2.48	1.3%
1433094529	9/27/2020	1.49	1.50	2.7%	2.32	2.38	1.1%
1433094544	9/27/2020	1.32	1.09	1.1%	1.90	1.57	0.8%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1433094565	9/27/2020	0.84	0.84	1.0%	3.10	3.23	1.8%
1433094569	9/27/2020	1.03	1.02	0.7%	2.29	2.25	2.6%
1433094604	9/27/2020	1.48	1.70	13.8%	1.32	1.53	14.7%
1323019071	9/28/2020	0.26	0.25	0.0%	2.67	2.62	4.6%
1323019082	9/28/2020	1.30	1.28	0.0%	0.58	0.60	3.2%
1323019099	9/28/2020	0.56	0.49	3.9%	1.53	1.38	1.9%
1323021131	9/28/2020	0.19	0.19	13.3%	2.80	2.89	10.3%
1323021169	9/28/2020	0.16	0.16	1.6%	2.79	2.92	3.4%
1323018066	9/30/2020	0.18	0.19	5.4%	1.50	1.68	11.3%
1229066037	10/1/2020	0.80	0.82	25.0%	1.83	1.80	3.0%
1229066073	10/1/2020	0.14	0.16	0.0%	3.36	3.90	2.9%
1229066164	10/1/2020	0.26	0.28	4.7%	2.17	2.13	1.5%
1229066208	10/1/2020	0.18	0.18	4.3%	0.78	0.77	1.0%
1229066224	10/1/2020	0.31	0.34	5.1%	1.53	1.40	1.2%
1229066236	10/1/2020	0.69	0.68	3.6%	2.57	2.56	2.2%
1229066252	10/1/2020	0.51	0.50	2.6%	0.69	0.70	1.6%
1229066265	10/1/2020	0.50	0.50	13.3%	0.67	0.67	14.9%
1229066267	10/1/2020	0.30	0.30	4.0%	1.63	1.70	0.0%
1229066292	10/1/2020	0.55	0.55	1.5%	1.09	1.10	0.4%
1229066295	10/1/2020	0.69	0.69	0.0%	1.28	1.28	0.0%
1229066309	10/1/2020	0.19	0.17	2.5%	0.77	0.76	1.7%
1229066317	10/1/2020	0.88	0.90	2.2%	2.18	2.18	0.0%
1229066332	10/1/2020	0.51	0.49	0.0%	0.99	0.99	0.0%
1322020005	10/1/2020	0.96	0.95	7.4%	2.82	2.89	1.9%
1322020020	10/1/2020	0.91	0.89	0.0%	2.07	2.07	2.1%
1322020051	10/1/2020	0.38	0.39	3.6%	1.28	1.30	1.7%
1322020058	10/1/2020	0.29	0.29	21.2%	2.42	2.37	22.4%
1322020165	10/1/2020	0.48	0.46	1.0%	1.96	1.94	2.5%
1322020187	10/1/2020	0.54	0.56	0.0%	1.79	1.82	0.0%
1322020221	10/1/2020	0.26	0.26	0.0%	2.15	2.15	1.5%
1322020339	10/1/2020	0.60	0.57	0.0%	1.68	1.66	1.3%
1322020353	10/1/2020	0.73	0.59	11.1%	1.89	1.51	1.3%
1322020364	10/1/2020	0.21	0.22	0.0%	1.36	1.34	1.3%
1322020411	10/1/2020	0.07	0.09	0.0%	3.62	3.73	4.2%
1322020459	10/1/2020	0.17	0.17	9.2%	2.47	2.40	8.9%
1322020506	10/1/2020	0.55	0.57	0.0%	1.77	1.81	0.0%
1323022030	10/1/2020	0.12	0.12	2.0%	0.23	0.23	1.4%
1323022097	10/1/2020	0.10	0.10	0.0%	0.76	0.75	0.9%
1323022164	10/1/2020	0.04	0.04	2.2%	2.61	2.57	0.0%
1323019040	10/2/2020	0.31	0.31	66.7%	1.79	1.75	0.0%
1323019054	10/2/2020	0.30	0.28	0.0%	2.55	2.49	6.1%
GC20-0401-009	10/2/2020	0.14	0.14	0.0%	9.80	9.89	2.4%
GC20-0401-018	10/2/2020	0.18	0.22	0.0%	2.16	2.28	0.0%
GC20-0402-002	10/2/2020	0.07	0.08	40.0%	1.22	1.19	1.3%
GC20-0402-018	10/2/2020	0.10	0.09	28.6%	4.71	4.70	2.9%
GC20-0403-005	10/2/2020	1.21	1.19	22.2%	1.10	1.12	0.8%
GC20-0403-018	10/2/2020	0.04	0.03	0.0%	4.74	4.88	0.8%
GC20-0404-006	10/2/2020	0.87	0.88	0.0%	1.11	1.13	3.0%
GC20-0405-005	10/2/2020	0.27	0.27	0.0%	0.63	0.63	0.0%
GC20-0406-006	10/2/2020	0.01	0.01	13.3%	5.00	5.12	2.5%
GC20-0407-007	10/2/2020	0.28	0.28	0.0%	1.35	1.36	3.9%
GC20-0408-010	10/2/2020	0.03	0.02	10.5%	4.68	4.74	0.2%
GC20-0408-018	10/2/2020	0.12	0.14	0.0%	6.72	6.64	2.4%
GC20-0409-005	10/2/2020	0.24	0.25	15.4%	5.47	5.54	1.2%
GC20-0409-017	10/2/2020	0.10	0.10	0.0%	7.87	8.06	0.9%
GC20-0410-006	10/2/2020	0.88	0.87	0.0%	1.14	1.12	0.9%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
GC20-0412-004	10/2/2020	0.99	1.02	0.0%	1.25	1.21	3.1%
GC20-0412-010	10/2/2020	0.04	0.05	0.0%	4.93	4.89	2.4%
GC20-0413-002	10/2/2020	0.86	0.89	0.0%	1.25	1.14	2.5%
GC20-0414-004	10/2/2020	0.08	0.08	0.0%	0.79	0.79	1.5%
GC20-0416-012	10/2/2020	0.78	0.75	5.1%	1.76	1.72	0.3%
GC20-0417-006	10/2/2020	0.01	0.01	4.9%	0.31	0.31	1.1%
GC20-0417-018	10/2/2020	0.82	0.82	0.0%	0.81	0.79	3.6%
GC20-0418-005	10/2/2020	0.22	0.22	0.0%	2.27	2.22	2.2%
GC20-0418-016	10/2/2020	0.90	0.89	20.0%	1.12	1.15	5.4%
GC20-0419-002	10/2/2020	0.63	0.63	4.1%	1.59	1.59	1.3%
GC20-0419-020	10/2/2020	0.19	0.20	0.0%	6.40	6.42	0.0%
GC20-0420-008	10/2/2020	0.18	0.18	0.0%	2.65	2.61	0.7%
GC20-0421-006	10/2/2020	0.01	0.01	0.0%	0.17	0.16	2.1%
GC20-0421-018	10/2/2020	0.45	0.45	0.0%	1.54	1.65	1.1%
GC20-0422-018	10/2/2020	0.64	0.66	0.0%	1.34	1.39	6.9%
GC20-0425-006	10/2/2020	0.02	0.02	0.0%	0.16	0.16	1.0%
GC20-0426-010	10/2/2020	0.15	0.15	0.0%	3.44	3.41	2.0%
GC20-0428-005	10/2/2020	0.08	0.08	0.0%	3.82	3.97	0.0%
GC20-0430-003	10/2/2020	0.47	0.47	3.1%	3.07	3.10	3.7%
GC20-0431-005	10/2/2020	0.88	0.86	3.9%	1.09	1.09	2.3%
GC20-0433-005	10/2/2020	0.21	0.21	0.0%	1.89	1.96	2.5%
GC20-0434-012	10/2/2020	0.55	0.55	2.3%	1.00	1.02	0.0%
GC20-0435-002	10/2/2020	0.07	0.07	1.1%	3.91	4.03	1.8%
GC20-0435-018	10/2/2020	0.35	0.35	1.1%	1.77	1.79	1.8%
GC20-0436-014	10/2/2020	0.18	0.18	3.4%	1.61	1.65	9.2%
GC20-0437-005	10/2/2020	0.17	0.17	1.1%	1.62	1.57	2.6%
GC20-0437-018	10/2/2020	0.20	0.21	3.0%	1.78	1.76	3.3%
GC20-0438-014	10/2/2020	0.17	0.17	1.7%	1.67	1.63	1.8%
GC20-0439-005	10/2/2020	0.07	0.07	6.9%	2.52	2.54	2.4%
GC20-0440-007	10/2/2020	0.31	0.31	0.0%	2.87	2.81	2.3%
1229067459	10/3/2020	0.96	0.96	4.1%	2.20	2.22	2.0%
1229067464	10/3/2020	0.07	0.04	3.5%	5.14	5.38	3.2%
1229067638	10/3/2020	0.69	0.69	7.0%	2.41	2.24	2.5%
1322002097	10/3/2020	0.54	0.53	0.0%	1.33	1.31	0.9%
1322002122	10/3/2020	0.93	0.92	0.9%	2.13	2.15	2.5%
1322002126	10/3/2020	0.17	0.17	54.5%	1.74	1.73	4.6%
1322002151	10/3/2020	0.60	0.60	0.0%	2.51	2.47	0.6%
1322002172	10/3/2020	0.72	0.73	2.3%	2.53	2.58	3.8%
1322002197	10/3/2020	0.64	0.65	1.9%	2.29	2.29	1.5%
1322020092	10/3/2020	0.74	0.71	0.0%	3.02	2.96	1.6%
1322020111	10/3/2020	1.07	1.08	1.6%	2.34	2.40	0.0%
1322020149	10/3/2020	0.59	0.55	0.0%	2.39	2.45	7.3%
1322020161	10/3/2020	0.73	0.71	2.8%	2.18	2.15	1.4%
1323023088	10/3/2020	0.44	0.43	1.4%	1.35	1.30	2.0%
1323023090	10/3/2020	0.29	0.28	1.1%	1.52	1.57	0.9%
1229067531	10/4/2020	0.77	0.90	0.0%	1.27	1.53	0.2%
1229067563	10/4/2020	0.12	0.12	0.0%	2.96	2.96	1.9%
1229067600	10/4/2020	0.58	0.61	0.0%	3.31	3.29	0.9%
1322002005	10/4/2020	0.16	0.16	0.0%	1.87	1.91	6.4%
1322002029	10/4/2020	0.43	0.43	0.0%	2.46	2.45	0.7%
1322002055	10/4/2020	0.24	0.24	0.0%	1.33	1.32	0.0%
1322002088	10/4/2020	0.43	0.42	5.4%	2.35	2.33	7.5%
1323023046	10/4/2020	0.08	0.08	0.0%	2.17	2.19	2.1%
1323023064	10/4/2020	0.23	0.23	0.0%	2.64	2.59	0.8%
1323023073	10/4/2020	0.18	0.18	0.0%	1.44	1.43	4.4%
1323023201	10/4/2020	0.58	0.57	2.4%	1.58	1.62	0.9%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1323023224	10/4/2020	0.11	0.11	0.0%	5.71	5.72	0.4%
1323023248	10/4/2020	0.38	0.38	1.7%	1.39	1.33	2.5%
1323023263	10/4/2020	0.12	0.12	5.0%	1.51	1.61	0.6%
1433094205	10/4/2020	1.26	1.34	15.6%	2.74	2.73	18.6%
1433094308	10/4/2020	1.91	1.93	0.0%	6.21	6.27	4.7%
1433094325	10/4/2020	1.09	1.09	6.2%	2.09	2.19	0.4%
1433094359	10/4/2020	0.19	0.18	1.0%	0.64	0.69	1.0%
1322006065	10/5/2020	0.21	0.21	0.0%	0.23	0.22	1.3%
1322006101	10/5/2020	0.27	0.28	8.0%	0.19	0.19	1.4%
1322006107	10/5/2020	0.14	0.15	0.0%	1.29	1.24	2.0%
1322006108	10/5/2020	0.23	0.23	0.0%	1.59	1.54	4.4%
1322006189	10/5/2020	0.10	0.10	3.6%	2.46	2.40	0.0%
1322006237	10/5/2020	0.06	0.06	0.0%	3.14	3.21	2.2%
1323023103	10/5/2020	0.27	0.27	0.0%	0.79	0.78	2.5%
1323023127	10/5/2020	0.30	0.29	6.9%	1.43	1.39	4.0%
1323023155	10/5/2020	0.12	0.13	0.0%	2.23	2.20	3.2%
1323023167	10/5/2020	0.29	0.29	3.4%	1.59	1.58	2.8%
1323023170	10/5/2020	0.46	0.47	0.0%	0.90	0.90	0.6%
1323023182	10/5/2020	0.14	0.14	2.2%	1.52	1.49	0.0%
1323024226	10/6/2020	0.22	0.21	4.7%	1.58	1.54	2.6%
1322002043	10/7/2020	0.22	0.23	0.0%	0.58	0.58	0.0%
1322002105	10/7/2020	0.13	0.12	7.4%	1.53	1.69	3.2%
1322002205	10/7/2020	0.33	0.34	3.0%	2.20	2.16	1.8%
1322003003	10/7/2020	0.34	0.35	0.0%	3.47	3.46	0.3%
1322003021	10/7/2020	0.53	0.55	8.0%	2.20	2.17	9.9%
1322003038	10/7/2020	0.46	0.45	4.4%	2.53	2.69	0.0%
1322003170	10/7/2020	0.27	0.26	4.1%	2.87	3.01	0.9%
1322003189	10/7/2020	0.25	0.24	3.8%	2.24	2.26	4.8%
1322004021	10/7/2020	0.06	0.06	2.9%	0.82	0.82	0.3%
1322006043	10/7/2020	0.40	0.39	5.1%	1.65	1.64	3.3%
1322006079	10/7/2020	0.41	0.41	2.5%	2.01	1.96	0.6%
1322006116	10/7/2020	0.40	0.40	0.0%	1.91	1.84	3.7%
1322006153	10/7/2020	0.56	0.55	0.0%	2.05	2.04	2.5%
1322006197	10/7/2020	0.40	0.38	2.2%	2.65	2.74	6.1%
1322006245	10/7/2020	0.50	0.49	2.0%	2.49	2.42	2.9%
1322006258	10/7/2020	0.10	0.10	1.8%	2.93	2.94	0.5%
1323024163	10/7/2020	0.14	0.13	3.7%	1.60	1.55	1.4%
1322004149	10/9/2020	0.25	0.25	5.7%	2.82	2.82	1.4%
1322004180	10/9/2020	0.12	0.13	0.0%	2.28	2.20	0.0%
1322005035	10/9/2020	0.16	0.16	0.0%	1.71	1.75	0.0%
1322005095	10/9/2020	0.29	0.29	8.0%	1.92	1.91	3.6%
1322005155	10/9/2020	0.23	0.24	0.0%	1.55	1.54	2.3%
1322005274	10/9/2020	0.19	0.19	0.0%	1.42	1.38	2.9%
1323024135	10/9/2020	0.18	0.17	4.3%	2.79	2.75	0.6%
1432090021	10/9/2020	0.32	0.36	3.4%	1.59	1.50	0.0%
1432090042	10/9/2020	0.71	0.71	0.0%	1.64	1.61	0.5%
1432090049	10/9/2020	0.49	0.50	0.0%	0.62	0.63	2.9%
1432090059	10/9/2020	0.34	0.34	0.0%	0.71	0.69	0.5%
1432090093	10/9/2020	0.46	0.44	11.8%	0.69	0.69	5.8%
1432090129	10/9/2020	0.54	0.53	4.4%	1.15	1.17	0.0%
1432090150	10/9/2020	0.56	0.57	2.0%	0.99	0.99	1.6%
1432090175	10/9/2020	0.56	0.56	0.0%	0.95	0.91	0.0%
1432090188	10/9/2020	0.55	0.53	1.9%	1.51	1.51	1.7%
1432090205	10/9/2020	0.67	0.67	3.7%	1.45	1.40	0.0%
1432090234	10/9/2020	0.52	0.52	0.0%	0.60	0.60	4.3%
1432090244	10/9/2020	0.34	0.34	1.8%	2.04	2.05	0.0%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1432090253	10/9/2020	0.91	0.89	0.0%	1.17	1.16	3.5%
1432090259	10/9/2020	1.11	1.11	0.0%	3.17	3.14	1.8%
1432090289	10/9/2020	0.24	0.24	2.2%	0.55	0.55	0.9%
1432090469	10/9/2020	0.30	0.29	0.0%	0.08	0.08	1.0%
1229068208	10/11/2020	0.67	0.67	2.0%	2.05	2.05	2.5%
1322003196	10/11/2020	0.25	0.25	0.0%	2.36	2.40	1.5%
1322003201	10/11/2020	0.17	0.18	6.5%	0.75	0.73	2.8%
1322004072	10/11/2020	0.45	0.46	0.0%	2.07	2.07	1.1%
1322004075	10/11/2020	0.50	0.51	2.2%	1.58	1.62	0.0%
1322004095	10/11/2020	0.15	0.16	0.0%	2.52	2.45	0.0%
1322005046	10/11/2020	0.18	0.19	28.6%	2.09	2.13	6.9%
1322005113	10/11/2020	0.13	0.13	0.0%	3.43	3.38	9.5%
1322005137	10/11/2020	0.20	0.20	5.4%	1.87	1.88	1.9%
1322005139	10/11/2020	0.16	0.16	0.0%	1.89	1.83	3.2%
1322005167	10/11/2020	0.23	0.23	21.1%	1.85	1.86	2.4%
1322005174	10/11/2020	0.34	0.33	0.0%	0.79	0.78	1.0%
1322005250	10/11/2020	0.09	0.12	5.7%	0.14	0.15	2.7%
1322005286	10/11/2020	0.21	0.17	0.0%	2.95	2.88	0.5%
1322005306	10/11/2020	0.14	0.14	0.0%	0.11	0.10	0.5%
1322006010	10/11/2020	0.25	0.25	0.0%	1.42	1.47	3.5%
1322006028	10/11/2020	0.35	0.35	0.0%	1.76	1.78	1.7%
1322006049	10/11/2020	0.28	0.28	0.0%	1.79	1.83	2.2%
1322006191	10/11/2020	0.17	0.17	3.0%	3.11	3.14	1.3%
1322003050	10/14/2020	0.38	0.38	7.4%	1.85	1.82	2.9%
1322003063	10/14/2020	0.34	0.34	4.3%	3.10	3.17	0.8%
1322003073	10/14/2020	0.46	0.46	8.7%	1.92	1.90	1.2%
1322003089	10/14/2020	0.61	0.61	3.5%	1.89	1.88	0.0%
1322003107	10/14/2020	0.28	0.25	0.0%	1.09	1.10	1.8%
1322003123	10/14/2020	0.49	0.49	11.3%	2.78	2.79	0.9%
1322003149	10/14/2020	0.99	0.98	0.0%	2.23	2.15	3.2%
1322004065	10/14/2020	0.29	0.28	0.0%	1.79	1.79	2.2%
1322004109	10/14/2020	0.24	0.23	0.0%	2.61	2.59	1.6%
1322004123	10/14/2020	0.17	0.17	0.0%	2.69	2.74	1.0%
1322004137	10/14/2020	0.30	0.30	0.0%	2.49	2.57	0.4%
1322005065	10/14/2020	0.13	0.14	0.0%	3.37	3.47	0.5%
1322005240	10/14/2020	0.22	0.24	1.0%	2.45	2.42	3.7%
1229068127	10/15/2020	0.66	0.68	0.0%	2.58	2.38	1.1%
1229068288	10/15/2020	0.42	0.45	7.4%	2.03	2.16	4.4%
1322004162	10/15/2020	0.46	0.47	3.5%	2.92	2.96	1.0%
1322004207	10/15/2020	1.11	1.10	6.9%	2.63	2.66	6.2%
1322007020	10/15/2020	0.29	0.28	0.0%	2.03	2.01	0.9%
1322007030	10/15/2020	0.34	0.37	3.0%	1.73	1.72	8.1%
1322007033	10/15/2020	0.69	0.81	0.0%	2.19	2.18	3.4%
1322007043	10/15/2020	0.23	0.22	4.4%	0.92	0.91	1.1%
1322007068	10/15/2020	0.12	0.12	3.9%	1.71	1.77	5.5%
1322007121	10/15/2020	0.25	0.26	10.5%	1.94	2.05	0.5%
1322007144	10/15/2020	0.26	0.28	8.5%	1.79	1.87	0.6%
1322007150	10/15/2020	0.30	0.27	2.2%	1.86	1.85	1.4%
1322007156	10/15/2020	0.48	0.48	16.0%	1.15	1.16	0.5%
1322007194	10/15/2020	0.22	0.22	0.9%	1.82	1.80	1.1%
1229071039	10/16/2020	0.33	0.33	6.3%	0.50	0.50	2.2%
1229071046	10/16/2020	0.53	0.43	10.5%	2.43	2.02	10.5%
1229071049	10/16/2020	0.97	0.96	0.0%	2.01	2.02	2.9%
1229071056	10/16/2020	0.46	0.46	66.7%	2.36	2.39	0.7%
1229071076	10/16/2020	0.38	0.38	0.0%	1.13	1.11	0.0%
1229071106	10/16/2020	1.03	1.02	8.0%	2.43	2.40	2.2%

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Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1229071111	10/16/2020	0.45	0.44	0.0%	2.04	2.06	2.2%
1229071154	10/16/2020	0.47	0.50	6.9%	1.60	1.62	0.0%
1322007191	10/16/2020	0.31	0.33	11.1%	1.81	1.85	3.4%
1322008007	10/16/2020	0.09	0.10	0.0%	0.10	0.09	0.0%
1322008023	10/16/2020	0.34	0.34	12.9%	1.82	1.83	3.1%
1322008055	10/16/2020	0.01	0.01	0.0%	2.70	2.68	0.5%
1322008061	10/16/2020	0.19	0.17	0.0%	2.39	2.31	1.8%
1322008068	10/16/2020	0.13	0.13	20.8%	0.69	0.67	18.4%
1322008100	10/16/2020	0.14	0.15	2.2%	2.98	2.98	1.0%
1322008110	10/16/2020	0.13	0.12	0.0%	1.41	1.38	1.3%
1322008111	10/16/2020	0.06	0.06	6.2%	1.52	1.52	1.2%
1322008139	10/16/2020	0.58	0.60	3.4%	0.51	0.52	1.9%
1322008170	10/16/2020	0.29	0.33	1.0%	1.60	1.65	0.5%
1322008184	10/16/2020	0.15	0.15	1.0%	1.41	1.38	1.2%
1229069085	10/17/2020	0.14	0.14	8.7%	2.47	2.45	2.8%
1322009075	10/17/2020	0.21	0.22	0.0%	2.32	2.33	0.8%
1322009104	10/17/2020	0.23	0.23	0.0%	2.02	2.08	1.3%
1322009117	10/17/2020	0.87	0.96	4.7%	0.57	0.55	0.4%
1322009135	10/17/2020	0.23	0.23	0.0%	2.99	3.02	2.9%
1322009150	10/17/2020	0.12	0.11	0.0%	2.13	2.19	1.0%
1322009160	10/17/2020	0.20	0.20	9.8%	2.24	2.21	3.6%
1322009265	10/17/2020	0.12	0.12	0.0%	5.30	5.31	0.2%
1322009298	10/17/2020	0.27	0.26	3.8%	1.74	1.78	2.3%
1322009322	10/17/2020	0.13	0.13	0.0%	2.62	2.64	0.8%
1229070024	10/18/2020	0.69	0.71	5.1%	1.27	1.25	1.5%
1229070092	10/18/2020	0.90	0.90	4.3%	1.19	1.17	0.0%
1229070375	10/18/2020	0.63	0.62	0.0%	1.39	1.37	0.8%
1229070441	10/18/2020	0.37	0.38	3.4%	1.35	1.36	0.4%
1229070452	10/18/2020	0.18	0.17	5.4%	0.26	0.26	1.2%
1322009384	10/18/2020	0.24	0.23	5.7%	0.83	0.83	0.0%
1322009430	10/18/2020	0.18	0.19	2.7%	2.50	2.47	0.7%
1322009431	10/18/2020	0.30	0.29	1.6%	2.40	2.39	1.4%
1322009444	10/18/2020	0.24	0.24	2.9%	1.22	1.23	1.6%
1322009459	10/18/2020	0.20	0.19	0.0%	1.36	1.34	1.7%
1229070049	10/20/2020	0.60	0.60	6.9%	1.92	1.96	0.8%
1229070077	10/20/2020	0.37	0.40	0.0%	1.04	0.97	0.6%
1229070126	10/20/2020	0.44	0.44	0.0%	0.89	0.87	2.3%
1229070218	10/20/2020	0.30	0.31	1.8%	0.65	0.65	0.6%
1229070275	10/20/2020	0.56	0.57	3.3%	1.78	1.79	0.0%
1322009068	10/20/2020	0.23	0.23	7.8%	1.79	1.80	7.0%
1322009214	10/20/2020	0.15	0.14	0.0%	2.41	2.43	2.1%
1322009009	10/22/2020	0.11	0.12	8.7%	1.56	1.58	1.3%
1322009026	10/22/2020	0.20	0.20	0.0%	3.18	2.99	9.3%
1322009042	10/22/2020	0.62	0.63	1.6%	0.65	0.62	4.7%
1322009045	10/22/2020	0.19	0.19	0.0%	2.93	2.94	0.3%
1322009054	10/22/2020	0.14	0.14	0.0%	1.85	2.03	6.2%
1229070133	10/23/2020	0.20	0.19	0.0%	0.57	0.57	0.8%
1229070139	10/23/2020	0.48	0.49	0.0%	1.06	1.07	0.3%
1229070177	10/23/2020	0.22	0.22	3.5%	0.41	0.42	4.0%
1229070235	10/23/2020	0.38	0.38	0.0%	0.77	0.77	0.9%
1229070252	10/23/2020	0.32	0.32	9.5%	1.05	1.06	0.0%
1229073101	10/23/2020	0.11	0.10	0.0%	0.09	0.09	0.0%
1229073104	10/23/2020	0.24	0.24	0.0%	1.00	1.01	0.0%
1322010005	10/23/2020	0.25	0.25	6.5%	3.06	3.07	0.0%
1322010021	10/23/2020	0.28	0.28	0.0%	2.90	2.90	4.2%
1322010033	10/23/2020	0.19	0.19	5.7%	2.37	2.40	0.0%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1322010064	10/23/2020	0.22	0.22	5.4%	2.44	2.46	0.0%
1322010081	10/23/2020	0.13	0.13	5.1%	0.12	0.12	0.0%
1322010105	10/23/2020	0.29	0.29	0.0%	2.16	2.14	2.1%
1322010129	10/23/2020	0.13	0.13	0.0%	0.29	0.29	1.3%
1322010134	10/23/2020	0.28	0.29	9.5%	1.56	1.59	7.4%
1322010143	10/23/2020	0.22	0.20	0.0%	2.34	2.52	2.4%
1322010168	10/23/2020	0.09	0.09	4.4%	0.47	0.49	5.1%
1322010180	10/23/2020	0.16	0.15	0.0%	0.08	0.08	1.0%
1322011022	10/23/2020	0.19	0.19	4.3%	0.98	0.96	1.7%
1322011071	10/23/2020	0.40	0.41	4.1%	0.86	0.85	3.0%
1322011112	10/23/2020	0.28	0.28	3.8%	1.05	1.06	8.5%
1322011155	10/23/2020	0.29	0.28	0.0%	2.01	1.99	0.9%
1322011182	10/23/2020	0.29	0.28	3.5%	1.52	1.46	1.0%
1322011187	10/23/2020	0.23	0.24	0.0%	1.21	1.19	0.0%
1322011230	10/23/2020	0.24	0.25	3.5%	1.69	1.64	1.9%
1433092013	10/23/2020	0.19	0.18	3.4%	0.31	0.31	2.5%
1433092041	10/23/2020	0.26	0.27	0.0%	0.49	0.45	0.9%
1433092093	10/23/2020	0.22	0.23	0.0%	0.20	0.19	0.0%
1433092227	10/23/2020	0.17	0.18	2.5%	0.12	0.12	1.2%
1433092247	10/23/2020	0.29	0.30	2.1%	0.40	0.39	0.9%
1229073005	10/24/2020	0.14	0.13	0.0%	0.13	0.13	2.8%
1229073073	10/24/2020	0.66	0.69	0.0%	1.10	1.07	2.0%
1229073083	10/24/2020	0.13	0.13	0.0%	0.10	0.10	0.0%
1229073256	10/24/2020	0.54	0.55	4.7%	2.40	2.44	2.3%
1229073391	10/24/2020	0.56	0.56	1.8%	1.33	1.36	1.7%
1322010137	10/24/2020	0.21	0.21	0.0%	0.92	0.92	2.2%
1322013459	10/24/2020	0.20	0.20	0.0%	3.45	3.38	0.0%
1322013500	10/24/2020	0.32	0.33	7.4%	1.33	1.31	0.0%
1322015021	10/24/2020	0.19	0.19	0.0%	1.79	1.84	1.1%
1322015035	10/24/2020	0.21	0.22	0.0%	1.27	1.30	3.7%
1322015081	10/24/2020	0.15	0.16	6.5%	1.35	1.37	1.5%
1322015088	10/24/2020	0.41	0.42	0.0%	1.18	1.24	2.9%
1322015102	10/24/2020	0.16	0.16	6.7%	1.07	1.11	0.0%
1322015110	10/24/2020	0.20	0.20	3.1%	1.03	1.06	1.5%
1322015124	10/24/2020	0.16	0.16	2.4%	0.91	0.92	5.0%
1322015138	10/24/2020	0.49	0.49	0.0%	1.04	1.03	4.7%
1322015145	10/24/2020	0.31	0.29	0.0%	1.55	1.55	1.0%
1433092106	10/24/2020	0.46	0.46	4.4%	0.42	0.44	2.8%
1322013246	10/25/2020	0.25	0.25	0.0%	2.00	1.90	6.7%
1322013258	10/25/2020	0.22	0.21	0.0%	1.99	2.06	1.7%
1322013318	10/25/2020	0.20	0.20	0.0%	1.19	1.21	9.5%
1322013320	10/25/2020	0.17	0.17	4.7%	1.30	1.39	3.5%
1322013405	10/25/2020	0.41	0.41	4.3%	0.81	0.84	5.1%
1322013410	10/25/2020	0.31	0.30	0.0%	1.45	1.39	5.1%
1322013412	10/25/2020	0.23	0.24	3.3%	1.82	1.73	4.2%
1322013481	10/25/2020	0.21	0.21	0.0%	0.66	0.60	3.6%
1229073038	10/27/2020	0.14	0.15	0.0%	0.14	0.14	5.3%
1229073091	10/27/2020	0.46	0.47	0.0%	0.50	0.51	0.6%
1322013339	10/27/2020	0.18	0.18	6.9%	1.48	1.56	0.0%
1322013374	10/27/2020	0.14	0.14	2.2%	1.79	1.78	2.0%
1432003110	10/27/2020	1.89	1.93	1.0%	0.50	0.55	1.6%
1432003175	10/27/2020	1.02	1.03	2.1%	0.62	0.63	9.5%
1229070087	10/28/2020	0.14	0.15	8.7%	0.37	0.37	1.6%
1229070315	10/28/2020	0.20	0.20	0.0%	0.39	0.38	1.9%
1229070378	10/28/2020	0.48	0.48	1.4%	1.60	1.63	1.4%
1322012063	10/28/2020	0.30	0.33	1.8%	1.50	1.50	0.0%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1322012086	10/28/2020	0.27	0.25	1.1%	1.93	1.89	1.3%
1322012116	10/28/2020	0.15	0.15	1.5%	2.85	2.87	3.5%
1322015301	10/28/2020	0.12	0.11	0.4%	1.26	1.28	0.0%
1322015347	10/28/2020	0.32	0.32	0.4%	1.03	1.02	1.7%
1432003057	10/28/2020	1.43	1.45	6.9%	2.16	2.13	0.0%
1432003090	10/28/2020	2.37	2.38	0.0%	0.59	0.60	0.7%
1432003095	10/28/2020	1.88	1.90	0.0%	0.79	0.80	2.6%
1432003191	10/28/2020	1.70	1.67	7.7%	0.54	0.54	2.1%
1432003233	10/28/2020	2.37	2.36	0.0%	0.24	0.24	1.0%
1432003303	10/28/2020	1.98	1.95	9.5%	0.88	0.85	0.0%
1322012049	10/30/2020	0.06	0.05	9.5%	0.14	0.13	3.2%
1322012055	10/30/2020	0.18	0.18	18.2%	0.56	0.54	7.4%
1322012074	10/30/2020	0.10	0.11	0.0%	4.61	4.76	3.6%
1432003013	10/30/2020	2.22	2.19	2.1%	1.47	1.37	4.0%
1432003018	10/30/2020	1.51	1.48	2.0%	1.49	1.51	1.3%
1432003030	10/30/2020	1.67	1.62	3.0%	1.00	0.98	2.0%
1432003050	10/30/2020	1.44	1.47	1.4%	0.73	0.76	7.0%
1432003088	10/30/2020	2.48	2.49	0.4%	0.67	0.67	0.0%
1432005143	10/30/2020	0.40	0.40	0.0%	1.11	1.07	0.0%
1432005189	10/30/2020	0.37	0.37	0.0%	0.71	0.73	2.8%
1432005267	10/30/2020	0.34	0.34	0.0%	0.31	0.31	3.7%
1322004216	10/31/2020	0.30	0.31	0.0%	3.39	3.17	10.5%
1322012013	10/31/2020	0.09	0.09	0.0%	0.09	0.10	13.3%
1322012035	10/31/2020	0.11	0.11	2.1%	0.08	0.07	1.7%
1432003525	10/31/2020	0.48	0.47	3.3%	0.60	0.59	6.7%
1432005042	10/31/2020	0.47	0.46	4.5%	1.58	1.55	5.1%
1432005237	10/31/2020	0.45	0.43	2.2%	0.60	0.57	1.9%
1229075184	11/2/2020	0.19	0.19	0.0%	0.17	0.18	2.8%
1229075218	11/2/2020	0.47	0.47	1.1%	0.37	0.37	0.9%
1229075233	11/2/2020	0.10	0.10	0.0%	0.13	0.14	5.7%
1229075240	11/2/2020	0.23	0.22	4.4%	0.33	0.38	14.1%
1229075266	11/2/2020	0.41	0.41	2.5%	1.20	1.21	9.5%
1331002009	11/2/2020	0.53	0.52	1.9%	0.23	0.22	4.4%
1331002048	11/2/2020	0.78	0.80	0.0%	0.49	0.49	4.7%
1331002051	11/2/2020	0.83	0.83	2.2%	1.07	1.10	4.4%
1331002065	11/2/2020	0.99	0.99	0.0%	0.41	0.40	2.5%
1331002071	11/2/2020	0.92	0.93	0.7%	1.16	1.15	0.0%
1331002077	11/2/2020	0.46	0.44	1.6%	0.94	0.93	0.0%
1331002122	11/2/2020	1.12	1.06	0.0%	1.22	1.16	7.4%
1331002179	11/2/2020	1.87	1.90	0.0%	1.31	1.31	0.8%
1331002181	11/2/2020	2.09	2.09	4.4%	1.60	1.54	1.1%
1331002195	11/2/2020	0.41	0.40	0.0%	0.30	0.33	0.0%
1331002196	11/2/2020	0.48	0.49	2.1%	0.85	0.82	3.6%
1331002244	11/2/2020	1.48	1.47	2.5%	0.60	0.60	0.0%
1331002309	11/2/2020	0.90	0.88	5.5%	0.89	0.93	5.0%
1331002419	11/2/2020	0.68	0.68	0.0%	0.44	0.42	3.8%
1229075514	11/5/2020	0.45	0.43	0.0%	0.11	0.11	1.8%
1229075521	11/5/2020	0.41	0.45	0.7%	0.19	0.21	0.3%
1229075533	11/5/2020	0.43	0.38	0.6%	0.68	0.63	0.8%
1229075553	11/5/2020	0.43	0.45	1.2%	0.42	0.41	0.5%
1229075561	11/5/2020	0.23	0.24	0.0%	0.13	0.14	2.2%
1229075568	11/5/2020	0.25	0.25	1.0%	0.46	0.45	0.3%
1321001075	11/5/2020	0.15	0.16	0.5%	2.77	2.82	1.5%
1322015060	11/5/2020	0.10	0.10	1.4%	6.03	5.92	0.0%
1331002311	11/5/2020	0.66	0.66	0.5%	0.42	0.45	4.0%
1432004022	11/5/2020	1.98	2.02	2.0%	1.27	1.23	3.2%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1432004057	11/5/2020	1.06	1.05	4.3%	0.57	0.57	7.4%
1432004096	11/5/2020	1.73	1.73	4.5%	3.59	3.67	0.0%
1432004107	11/5/2020	1.94	1.93	9.3%	1.01	0.97	10.0%
1432004122	11/5/2020	2.12	2.10	4.5%	1.38	1.44	2.4%
1432004137	11/5/2020	1.42	1.40	0.0%	3.55	3.55	6.9%
1432006002	11/5/2020	1.99	2.01	0.9%	3.64	3.65	0.0%
1432006007	11/5/2020	2.03	2.04	1.7%	2.69	2.65	4.5%
1432006103	11/5/2020	2.32	2.32	0.0%	5.17	5.07	0.0%
1432006125	11/5/2020	1.43	1.44	0.9%	6.94	6.96	4.3%
1432006155	11/5/2020	2.11	2.19	3.7%	1.18	1.18	0.0%
1432006167	11/5/2020	2.01	2.01	6.5%	1.98	1.98	1.8%
1432006194	11/5/2020	1.71	1.74	0.0%	1.75	1.83	2.2%
1432006208	11/5/2020	1.63	1.62	12.3%	8.46	8.53	7.6%
1432006209	11/5/2020	1.70	1.72	0.0%	6.24	6.21	2.0%
1321001023	11/6/2020	0.28	0.28	155.6%	2.13	2.13	3.8%
1321001073	11/6/2020	0.25	0.25	0.0%	3.70	3.75	3.3%
1432006069	11/6/2020	1.00	1.04	120.0%	0.89	0.89	4.4%
1432006084	11/6/2020	0.85	0.85	0.0%	0.40	0.41	0.5%
1432006095	11/6/2020	2.33	2.33	0.0%	5.80	5.76	0.0%
GC20-0441-010	11/6/2020	0.19	0.19	0.0%	2.04	2.06	1.1%
GC20-0442-005	11/6/2020	0.17	0.17	0.0%	1.68	1.74	1.8%
GC20-0442-020	11/6/2020	0.15	0.15	0.0%	1.78	1.84	6.2%
GC20-0443-017	11/6/2020	0.24	0.25	0.0%	1.82	1.81	1.6%
GC20-0444-013	11/6/2020	0.19	0.20	15.4%	1.82	1.85	3.5%
GC20-0445-005	11/6/2020	0.22	0.20	0.0%	2.48	2.46	1.3%
GC20-0446-002	11/6/2020	0.22	0.22	0.0%	1.88	1.91	4.2%
GC20-0446-018	11/6/2020	0.38	0.38	18.2%	2.97	3.02	1.4%
GC20-0447-007	11/6/2020	0.35	0.33	15.4%	1.89	1.86	3.0%
GC20-0448-005	11/6/2020	0.15	0.16	0.0%	2.43	2.40	0.0%
GC20-0449-001	11/6/2020	0.26	0.26	0.0%	2.32	2.33	2.2%
GC20-0449-017	11/6/2020	0.13	0.13	0.0%	2.01	2.07	2.1%
GC20-0450-014	11/6/2020	0.22	0.22	15.4%	1.86	1.82	1.7%
GC20-0451-005	11/6/2020	0.33	0.34	0.0%	2.29	2.33	0.6%
GC20-0452-001	11/6/2020	0.29	0.30	11.8%	2.34	2.33	0.0%
GC20-0453-005	11/6/2020	0.33	0.33	0.0%	2.21	2.11	9.6%
GC20-0454-005	11/6/2020	0.09	0.09	11.8%	2.11	2.10	1.1%
GC20-0455-002	11/6/2020	0.15	0.14	0.0%	1.92	1.94	0.0%
GC20-0455-019	11/6/2020	0.45	0.45	0.0%	2.22	2.22	0.5%
GC20-0456-015	11/6/2020	0.24	0.24	0.0%	2.21	2.22	2.3%
GC20-0457-012	11/6/2020	0.28	0.28	10.5%	2.74	2.76	0.4%
GC20-0458-005	11/6/2020	0.09	0.09	0.0%	1.98	1.98	0.0%
GC20-0458-018	11/6/2020	0.23	0.23	0.0%	2.24	2.32	3.4%
GC20-0459-005	11/6/2020	0.04	0.01	0.0%	2.08	2.16	3.1%
GC20-0460-005	11/6/2020	0.26	0.26	0.0%	2.00	2.00	6.5%
GC20-0461-002	11/6/2020	0.16	0.14	0.0%	2.59	2.50	4.7%
GC20-0461-018	11/6/2020	0.45	0.47	0.0%	1.32	1.33	0.0%
GC20-0462-014	11/6/2020	0.62	0.63	0.0%	1.26	1.29	0.4%
GC20-0463-005	11/6/2020	0.07	0.06	0.0%	2.35	2.28	2.8%
GC20-0464-001	11/6/2020	0.04	0.01	0.0%	2.01	2.10	5.6%
GC20-0464-018	11/6/2020	0.06	0.07	0.0%	1.78	1.75	1.2%
GC20-0465-015	11/6/2020	0.10	0.10	8.7%	2.56	2.49	4.7%
GC20-0466-010	11/6/2020	0.01	0.01	8.7%	2.40	2.48	3.6%
GC20-0467-005	11/6/2020	0.03	0.03	8.0%	2.18	2.17	0.0%
GC20-0468-015	11/6/2020	0.17	0.17	8.7%	2.19	2.16	2.8%
GC20-0469-009	11/6/2020	0.21	0.21	0.0%	2.18	2.05	0.5%
GC20-0470-002	11/6/2020	0.30	0.29	0.0%	2.10	2.09	1.3%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
GC20-0471-017	11/6/2020	0.36	0.35	0.0%	1.87	1.86	0.8%
GC20-0472-017	11/6/2020	0.10	0.10	8.7%	2.37	2.36	1.5%
GC20-0472-019	11/6/2020	0.18	0.18	0.0%	2.42	2.49	3.2%
GC20-0474-006	11/6/2020	0.23	0.23	0.0%	2.23	2.20	2.8%
GC20-0475-019	11/6/2020	0.17	0.18	8.0%	1.85	1.99	5.1%
GC20-0500-002	11/6/2020	0.20	0.18	0.0%	3.85	0.85	2.9%
GC20-0501-005	11/6/2020	0.07	0.07	6.9%	1.40	1.37	1.8%
GC20-0504-003	11/6/2020	0.12	0.12	7.4%	2.04	2.03	1.1%
GC20-0505-005	11/6/2020	0.10	0.10	0.0%	1.94	1.94	3.6%
GC20-0506-006	11/6/2020	0.09	0.08	7.4%	0.38	0.38	4.3%
GC20-0509-013	11/6/2020	0.06	0.06	0.0%	1.62	1.69	0.7%
GC20-0511-006	11/6/2020	0.08	0.09	19.4%	1.74	1.76	0.7%
GC20-0512-013	11/6/2020	0.22	0.22	7.4%	1.72	1.69	3.0%
GC20-0514-005	11/6/2020	0.78	0.79	0.0%	0.06	0.06	1.1%
GC20-0515-009	11/6/2020	0.36	0.37	6.9%	2.58	2.62	1.0%
GC20-0517-005	11/6/2020	0.32	0.33	13.3%	1.24	1.26	3.5%
GC20-0518-009	11/6/2020	0.71	0.70	0.0%	0.20	0.20	3.3%
GC20-0519-005	11/6/2020	0.75	0.77	0.0%	0.07	0.06	0.0%
GC20-0524-012	11/6/2020	0.19	0.19	6.5%	1.39	1.47	4.4%
GC20-0525-010	11/6/2020	0.72	0.73	6.1%	1.33	1.33	2.0%
GC20-0526-002	11/6/2020	0.29	0.29	0.0%	1.79	1.78	2.6%
GC20-0527-003	11/6/2020	0.50	0.50	20.7%	1.54	1.49	20.2%
GC20-0528-006	11/6/2020	0.19	0.19	0.0%	2.18	2.22	0.7%
GC20-0532-004	11/6/2020	0.12	0.12	13.3%	2.43	2.41	1.3%
GC20-0533-005	11/6/2020	1.12	1.11	0.0%	0.59	0.58	3.2%
GC20-0534-011	11/6/2020	0.11	0.12	6.5%	2.63	2.59	1.2%
GC20-0537-010	11/6/2020	0.20	0.20	0.0%	2.14	2.22	0.0%
GC20-0539-007	11/6/2020	0.16	0.17	0.0%	1.96	1.91	5.7%
GC20-0541-006	11/6/2020	0.14	0.14	6.1%	1.13	1.09	0.0%
GC20-0541-007	11/6/2020	0.17	0.14	0.0%	1.51	1.52	2.1%
GC20-0542-012	11/6/2020	0.13	0.16	6.1%	1.20	1.47	1.7%
GC20-0543-007	11/6/2020	0.21	0.19	0.0%	1.39	1.40	3.5%
GC20-0544-005	11/6/2020	0.14	0.16	6.1%	1.56	1.54	2.6%
GC20-0546-013	11/6/2020	0.05	0.06	0.0%	2.19	2.16	1.4%
GC20-0549-005	11/6/2020	0.35	0.34	10.5%	1.44	1.38	127.7%
GC20-0551-005	11/6/2020	0.24	0.24	0.0%	2.07	2.02	0.6%
GC20-0553-005	11/6/2020	0.13	0.14	5.7%	1.14	1.19	7.3%
GC20-0554-011	11/6/2020	0.12	0.13	0.0%	1.93	2.03	2.9%
GC20-0556-005	11/6/2020	0.15	0.16	0.0%	0.93	0.89	0.0%
GC20-0557-009	11/6/2020	0.12	0.11	10.0%	1.53	1.46	0.7%
GC20-0557-012	11/6/2020	0.14	0.14	0.0%	1.36	1.35	5.6%
GC20-0558-002	11/6/2020	0.16	0.16	0.0%	2.44	2.44	1.0%
GC20-0559-002	11/6/2020	0.11	0.11	0.0%	0.84	0.85	1.8%
GC20-0563-005	11/6/2020	0.10	0.09	4.9%	2.55	2.54	4.7%
GC20-0565-006	11/6/2020	0.06	0.06	5.1%	0.62	0.61	1.6%
GC20-0566-013	11/6/2020	0.07	0.06	0.0%	1.39	1.44	3.7%
GC20-0567-007	11/6/2020	0.08	0.08	9.5%	1.09	1.20	0.8%
GC20-0567-012	11/6/2020	0.16	0.16	4.9%	0.71	0.71	8.7%
GC20-0568-012	11/6/2020	0.07	0.07	4.7%	0.62	0.62	0.0%
GC20-0569-010	11/6/2020	0.15	0.14	0.0%	0.56	0.55	6.1%
GC20-0570-011	11/6/2020	0.11	0.11	0.0%	0.73	0.69	0.0%
GC20-0572-009	11/6/2020	0.13	0.13	0.0%	1.41	1.45	1.8%
GC20-0574-004	11/6/2020	0.11	0.12	0.0%	1.78	1.83	2.2%
GC20-0575-007	11/6/2020	0.05	0.05	0.0%	1.10	1.12	1.6%
GC20-0576-007	11/6/2020	0.17	0.16	0.0%	1.01	0.99	1.4%
GC20-0579-005	11/6/2020	0.16	0.17	0.0%	0.58	0.59	3.5%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
GC20-0581-005	11/6/2020	0.16	0.16	0.0%	1.52	1.53	2.4%
GC20-0582-006	11/6/2020	0.13	0.14	0.0%	0.92	0.91	0.5%
GC20-0583-006	11/6/2020	0.22	0.21	4.1%	0.71	0.71	0.6%
GC20-0585-007	11/6/2020	0.13	0.12	0.0%	0.86	0.86	0.0%
GC20-0586-003	11/6/2020	0.04	0.04	0.0%	0.73	0.73	0.4%
GC20-0588-006	11/6/2020	0.10	0.10	0.0%	0.60	0.60	3.1%
GC20-0589-005	11/6/2020	0.10	0.10	0.0%	1.31	1.27	0.7%
GC20-0590-009	11/6/2020	0.13	0.13	0.0%	0.32	0.31	0.6%
GC20-0591-006	11/6/2020	0.06	0.06	3.4%	1.54	1.52	0.5%
GC20-0592-012	11/6/2020	0.35	0.36	3.4%	1.19	1.23	0.4%
GC20-0594-005	11/6/2020	0.16	0.16	3.1%	1.53	1.58	1.6%
GC20-0596-001	11/6/2020	0.33	0.33	5.9%	4.52	4.56	1.6%
GC20-0597-005	11/6/2020	0.10	0.10	0.0%	1.33	1.42	4.6%
GC20-0598-005	11/6/2020	0.20	0.21	0.0%	0.24	0.22	0.9%
GC20-0599-009	11/6/2020	0.05	0.05	2.9%	1.88	2.00	4.3%
GC20-0602-008	11/6/2020	0.16	0.17	3.0%	0.34	0.34	1.7%
GC20-0603-008	11/6/2020	0.22	0.22	2.8%	0.81	0.81	0.5%
GC20-0604-005	11/6/2020	0.38	0.39	2.8%	0.47	0.47	3.3%
GC20-0605-011	11/6/2020	0.17	0.17	2.8%	0.48	0.47	0.6%
GC20-0607-002	11/6/2020	0.10	0.10	2.7%	1.18	1.14	1.5%
GC20-0608-005	11/6/2020	0.17	0.17	0.0%	0.18	0.17	1.7%
GC20-0609-005	11/6/2020	0.13	0.14	2.6%	1.64	1.69	0.0%
GC20-0610-005	11/6/2020	0.19	0.19	0.0%	0.48	0.48	0.0%
GC20-0611-009	11/6/2020	0.10	0.10	4.3%	1.54	1.47	0.8%
GC20-0612-005	11/6/2020	0.12	0.12	0.0%	2.23	2.26	3.3%
GC20-0613-005	11/6/2020	0.07	0.07	1.6%	1.80	1.81	2.4%
GC20-0614-008	11/6/2020	0.07	0.07	1.4%	1.43	1.46	0.0%
GC20-0615-005	11/6/2020	0.12	0.11	1.4%	2.74	2.84	0.0%
GC20-0616-009	11/6/2020	0.05	0.05	2.6%	0.88	0.89	15.4%
GC20-0617-012	11/6/2020	0.14	0.14	1.3%	1.86	1.88	0.0%
GC20-0619-003	11/6/2020	0.18	0.18	0.9%	1.63	1.64	1.7%
GC20-0620-005	11/6/2020	0.21	0.20	0.0%	1.10	1.05	2.5%
GC20-0621-009	11/6/2020	0.09	0.09	3.9%	2.21	2.16	0.0%
GC20-0622-012	11/6/2020	0.16	0.16	0.0%	1.15	1.18	1.3%
GC20-0624-002	11/6/2020	0.35	0.36	0.0%	3.38	3.36	0.0%
GC20-0625-005	11/6/2020	0.27	0.27	0.0%	1.30	1.26	0.7%
1321001047	11/7/2020	0.21	0.21	2.3%	1.18	1.25	6.4%
1321001062	11/7/2020	0.24	0.25	0.0%	3.49	3.52	5.8%
1321001094	11/7/2020	0.21	0.21	0.0%	3.04	3.07	1.0%
1321001112	11/7/2020	0.31	0.31	4.3%	2.02	2.12	3.5%
1321001114	11/7/2020	0.26	0.25	3.9%	3.31	3.22	2.8%
1321001117	11/7/2020	0.31	0.30	4.1%	3.39	3.48	0.9%
1321001159	11/7/2020	0.24	0.23	3.3%	2.23	2.31	2.6%
1432006029	11/7/2020	1.72	1.76	0.0%	1.21	1.29	4.8%
1322015241	11/9/2020	0.24	0.25	0.0%	1.46	1.42	7.1%
1322015304	11/9/2020	0.03	0.03	0.0%	0.98	0.96	2.1%
1331004107	11/9/2020	1.41	1.42	4.1%	0.31	0.31	2.8%
1331004113	11/9/2020	1.12	1.12	0.0%	0.22	0.23	4.1%
1331004159	11/9/2020	1.02	1.02	0.0%	0.45	0.47	2.0%
1331004223	11/9/2020	0.83	0.83	0.0%	0.24	0.25	4.3%
1331004231	11/9/2020	1.33	1.30	0.0%	0.28	0.28	4.4%
1331004302	11/9/2020	0.83	0.83	2.3%	0.50	0.51	0.0%
1331004340	11/9/2020	0.90	0.90	0.7%	1.45	1.35	0.0%
1229075005	11/10/2020	0.36	0.37	0.0%	1.15	1.11	0.0%
1229075020	11/10/2020	0.30	0.30	0.0%	0.34	0.34	66.7%
1229075038	11/10/2020	0.55	0.55	14.0%	0.62	0.67	11.1%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1229075054	11/10/2020	0.36	0.36	0.0%	0.02	0.01	4.9%
1331004009	11/10/2020	0.91	0.90	2.5%	0.32	0.34	6.8%
1331004043	11/10/2020	1.13	1.11	1.1%	0.43	0.33	6.1%
1331004049	11/10/2020	1.21	1.21	1.8%	0.21	0.20	26.3%
1331004057	11/10/2020	0.81	0.79	0.0%	0.71	0.76	4.9%
1331004355	11/10/2020	2.00	2.05	0.0%	0.99	1.03	3.8%
1331004361	11/10/2020	0.69	0.60	2.5%	0.19	0.17	4.0%
1331004404	11/10/2020	0.68	0.68	2.7%	0.42	0.40	3.5%
1331004413	11/10/2020	1.85	1.85	0.0%	0.52	0.54	7.8%
1331004307	11/11/2020	0.74	0.71	0.0%	1.25	1.17	0.0%
1331004337	11/11/2020	0.55	0.55	4.1%	0.69	0.69	6.6%
1321005019	11/12/2020	0.33	0.33	7.4%	2.07	1.98	2.8%
1321005036	11/12/2020	0.11	0.10	6.1%	1.65	1.60	4.5%
1321005098	11/12/2020	0.21	0.22	5.4%	2.16	2.11	4.1%
1321005103	11/12/2020	0.25	0.25	9.5%	1.30	1.25	3.1%
1322016001	11/12/2020	0.19	0.18	4.7%	1.44	1.50	2.3%
1322016149	11/12/2020	0.17	0.16	0.0%	1.13	1.08	3.9%
1322016188	11/12/2020	0.14	0.13	0.0%	1.07	1.10	4.4%
1321005064	11/13/2020	0.17	0.16	6.1%	1.27	1.25	1.8%
1321005191	11/13/2020	0.06	0.05	18.2%	2.62	2.66	1.5%
1321005205	11/13/2020	0.16	0.17	6.1%	2.81	2.86	1.6%
1321005237	11/13/2020	0.26	0.25	3.9%	1.95	1.87	4.2%
1229074016	11/15/2020	0.28	0.27	22.2%	1.47	1.49	2.8%
1229074061	11/15/2020	0.50	0.49	1.2%	0.07	0.08	0.5%
1229074068	11/15/2020	0.41	0.41	0.7%	0.75	0.74	0.6%
1229074084	11/15/2020	0.05	0.04	0.7%	1.74	1.79	2.2%
1229074091	11/15/2020	0.67	0.65	0.0%	1.53	1.43	2.3%
1229074109	11/15/2020	0.55	0.55	13.8%	1.75	1.78	14.4%
1229074279	11/15/2020	0.32	0.33	0.0%	1.59	1.59	1.5%
1229074280	11/15/2020	0.43	0.44	0.6%	1.65	1.58	3.9%
1229074305	11/15/2020	0.74	0.76	2.6%	0.95	0.94	0.0%
1229074322	11/15/2020	0.83	0.82	2.6%	0.88	0.91	0.6%
1229074367	11/15/2020	0.38	0.37	24.5%	1.11	1.03	30.0%
1229074371	11/15/2020	0.24	0.24	0.8%	0.84	0.83	0.7%
1229074608	11/15/2020	1.15	1.02	3.0%	0.72	0.64	13.3%
1331003007	11/15/2020	2.44	2.40	0.0%	0.92	0.90	0.0%
1331003456	11/15/2020	1.20	1.20	0.0%	0.84	0.81	40.0%
1331013230	11/15/2020	0.78	0.79	2.0%	0.18	0.18	13.3%
1331013252	11/15/2020	0.58	0.60	3.4%	0.36	0.40	10.5%
1331013346	11/15/2020	0.71	0.71	1.6%	0.61	0.62	2.5%
1331013380	11/15/2020	0.49	0.47	1.3%	1.38	1.33	0.0%
1331013387	11/15/2020	0.34	0.33	0.0%	0.08	0.07	3.6%
1331013410	11/15/2020	0.62	0.63	1.7%	0.41	0.40	2.2%
1331013424	11/15/2020	0.38	0.38	0.0%	0.03	0.02	1.2%
1331013435	11/15/2020	0.37	0.37	3.6%	0.38	0.38	1.4%
1432098009	11/15/2020	1.15	1.32	3.1%	7.02	8.11	0.0%
1432098013	11/15/2020	2.01	2.57	2.7%	4.16	5.63	7.5%
1432098038	11/15/2020	2.65	2.63	0.0%	4.46	4.43	1.3%
1432098049	11/15/2020	2.05	2.05	2.3%	4.79	4.68	4.3%
1432098071	11/15/2020	1.91	1.96	4.2%	5.32	5.29	3.7%
1432098077	11/15/2020	1.95	1.90	0.0%	3.01	3.01	1.7%
1432098097	11/15/2020	1.42	1.42	3.0%	4.08	4.02	6.8%
1432098107	11/15/2020	1.65	1.64	0.0%	3.65	3.51	1.6%
1432098120	11/15/2020	0.87	0.86	2.7%	6.01	5.98	1.1%
1432098125	11/15/2020	1.39	1.40	1.2%	1.72	1.71	3.4%
1432098144	11/15/2020	1.42	1.41	12.0%	1.85	1.81	11.8%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1321005254	11/16/2020	0.11	0.12	0.0%	2.51	2.59	0.0%
1321005258	11/16/2020	0.17	0.17	3.5%	1.67	1.67	5.6%
1321005289	11/16/2020	0.18	0.18	1.6%	1.66	1.75	3.8%
1331013280	11/16/2020	0.56	0.58	1.5%	0.37	0.35	11.8%
1331013304	11/16/2020	0.68	0.68	0.0%	0.30	0.30	0.0%
1331013329	11/16/2020	0.46	0.46	8.7%	0.19	0.22	3.1%
1331013337	11/16/2020	0.64	0.65	0.0%	0.52	0.54	0.0%
1331013505	11/16/2020	0.48	0.50	0.0%	1.22	1.23	5.3%
1331013522	11/16/2020	0.52	0.54	0.0%	1.64	1.57	2.8%
1331013596	11/16/2020	0.46	0.46	0.0%	0.13	0.13	14.6%
1331013639	11/16/2020	0.40	0.40	4.1%	0.35	0.36	0.8%
1331013659	11/16/2020	0.65	0.66	3.8%	0.09	0.08	4.4%
1331003117	11/17/2020	1.49	1.53	8.9%	0.32	0.33	7.7%
1331003222	11/17/2020	1.44	1.54	0.0%	0.10	0.10	0.0%
1331003223	11/17/2020	1.12	1.12	1.9%	0.09	0.09	7.1%
1331003439	11/17/2020	1.24	1.26	4.6%	0.32	0.32	2.5%
1331003447	11/17/2020	1.30	1.28	0.0%	0.68	0.66	0.0%
1331003463	11/17/2020	1.11	1.06	1.6%	0.40	0.39	0.0%
1331003476	11/17/2020	1.05	1.03	1.6%	0.29	0.27	3.0%
1331013260	11/17/2020	0.53	0.51	2.6%	0.62	0.59	3.1%
1331013269	11/17/2020	0.47	0.43	6.7%	0.54	0.50	0.0%
1331013305	11/17/2020	0.79	0.79	4.3%	0.13	0.13	4.6%
1331013539	11/17/2020	0.45	0.47	3.8%	1.28	1.34	5.0%
1331013583	11/17/2020	0.53	0.57	7.3%	5.10	4.41	14.5%
1229074257	11/18/2020	0.24	0.24	2.2%	1.07	1.05	31.0%
1321002082	11/18/2020	0.20	0.20	0.0%	2.31	2.39	0.0%
1321002173	11/18/2020	0.31	0.31	0.0%	2.10	2.10	3.9%
1321002186	11/18/2020	0.34	0.33	0.9%	1.46	1.45	1.7%
1321002191	11/18/2020	0.33	0.32	0.8%	2.03	2.00	5.0%
1321002259	11/18/2020	0.21	0.21	4.9%	2.14	2.26	4.1%
1321002263	11/18/2020	0.23	0.24	0.6%	2.45	2.44	1.6%
1331003154	11/18/2020	1.39	1.46	0.0%	0.25	0.24	1.0%
1331003249	11/18/2020	2.61	2.58	1.2%	0.27	0.28	3.6%
1331003365	11/18/2020	1.56	1.55	0.0%	0.62	0.63	3.4%
1331003388	11/18/2020	1.92	1.92	0.0%	0.98	0.97	5.5%
1331003422	11/18/2020	0.72	0.72	0.0%	0.26	0.25	1.9%
1331003427	11/18/2020	1.29	1.28	4.3%	1.43	1.36	0.4%
1331003495	11/18/2020	1.17	1.18	0.0%	0.58	0.57	0.0%
1331013218	11/18/2020	0.45	0.46	3.1%	0.41	0.30	1.5%
1331013236	11/18/2020	0.55	0.55	3.0%	0.39	0.39	0.7%
1321002005	11/20/2020	0.14	0.15	0.7%	1.62	1.65	3.9%
1321002020	11/20/2020	0.06	0.06	1.2%	1.21	1.18	4.4%
1321002099	11/20/2020	0.46	0.46	0.5%	0.78	0.80	6.3%
1321002116	11/20/2020	0.13	0.13	2.4%	1.98	2.01	0.0%
1321002240	11/20/2020	0.35	0.35	0.4%	1.40	1.37	0.0%
1321002332	11/20/2020	0.54	0.54	0.0%	1.60	1.64	2.5%
1321002347	11/20/2020	0.25	0.25	0.0%	2.29	2.33	1.5%
1321002368	11/20/2020	0.26	0.26	6.9%	1.77	1.74	1.8%
1331003041	11/20/2020	2.48	2.47	0.0%	0.14	0.14	1.7%
1331003047	11/20/2020	2.05	2.10	0.0%	1.21	1.21	1.7%
1331003104	11/20/2020	1.72	1.70	0.0%	0.22	0.23	2.2%
1331003161	11/20/2020	1.46	1.47	0.0%	0.25	0.26	2.5%
1331003274	11/20/2020	2.07	2.06	0.0%	0.46	0.49	2.5%
1331003028	11/21/2020	1.58	1.59	15.4%	0.21	0.20	2.8%
1331003243	11/21/2020	2.03	2.02	0.0%	0.21	0.21	0.0%
1331003331	11/21/2020	1.88	1.87	9.5%	0.26	0.24	4.5%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
GC20-0626-005	11/21/2020	0.26	0.26	0.0%	2.26	2.30	0.5%
GC20-0627-005	11/21/2020	0.22	0.23	0.0%	2.57	2.53	2.0%
GC20-0628-005	11/21/2020	0.15	0.13	14.3%	1.51	1.62	7.0%
GC20-0629-005	11/21/2020	0.17	0.16	6.1%	0.88	0.85	3.5%
GC20-0630-005	11/21/2020	0.10	0.10	4.4%	1.94	1.93	1.6%
GC20-0631-009	11/21/2020	0.06	0.07	0.0%	1.06	1.09	1.8%
GC20-0632-012	11/21/2020	0.11	0.10	0.6%	1.14	1.09	4.9%
GC20-0634-003	11/21/2020	0.08	0.08	0.5%	1.12	1.12	8.0%
GC20-0635-007	11/21/2020	0.13	0.13	0.5%	1.01	0.99	0.0%
1321003082	11/22/2020	0.35	0.36	35.3%	0.47	0.44	0.9%
1325001001	11/22/2020	0.86	0.87	1.8%	0.37	0.36	1.4%
1325001017	11/22/2020	0.49	0.51	4.0%	0.16	0.17	6.1%
1325001038	11/22/2020	0.10	0.07	3.8%	2.36	2.34	5.3%
1325001059	11/22/2020	0.53	0.54	1.9%	0.69	0.68	1.5%
1325001070	11/22/2020	0.89	0.88	0.0%	0.34	0.34	3.2%
1325001085	11/22/2020	0.33	0.95	1.4%	0.27	0.82	6.1%
1325001095	11/22/2020	0.55	0.54	1.2%	2.15	2.18	2.7%
1325001119	11/22/2020	0.72	0.72	1.1%	0.31	0.32	0.0%
1325001147	11/22/2020	0.54	0.52	96.9%	0.37	0.39	100.9%
1325001152	11/22/2020	0.74	0.73	2.8%	0.79	0.84	6.6%
1325001167	11/22/2020	0.58	0.58	0.0%	1.08	1.04	3.8%
1321003049	11/23/2020	0.66	0.66	0.0%	1.06	1.02	6.9%
1321004006	11/23/2020	0.25	0.25	15.4%	1.20	1.21	1.0%
1321004051	11/23/2020	0.18	0.19	13.3%	0.76	0.76	2.2%
1321004085	11/23/2020	0.33	0.31	0.0%	0.32	0.32	2.4%
1331003096	11/23/2020	2.58	2.61	0.0%	2.69	2.70	3.2%
1331003262	11/23/2020	1.37	1.37	0.0%	0.30	0.30	3.3%
GC20-0636-010	11/23/2020	0.16	0.16	0.0%	1.11	1.11	0.0%
GC20-0638-002	11/23/2020	0.14	0.14	0.0%	1.35	1.35	3.9%
GC20-0639-005	11/23/2020	0.19	0.19	8.7%	1.45	1.45	0.4%
GC20-0640-008	11/23/2020	0.10	0.10	0.0%	2.07	2.14	0.0%
GC20-0641-005	11/23/2020	0.14	0.14	0.0%	1.78	1.71	4.0%
GC20-0642-005	11/23/2020	0.10	0.10	0.0%	0.83	0.81	0.0%
GC20-0643-009	11/23/2020	0.07	0.06	0.0%	1.01	1.00	0.0%
GC20-0644-012	11/23/2020	0.11	0.12	0.0%	7.59	7.56	0.0%
GC20-0646-003	11/23/2020	0.12	0.12	4.7%	1.25	1.30	7.9%
GC20-0647-005	11/23/2020	0.21	0.22	0.0%	1.58	1.71	0.8%
GC20-0648-005	11/23/2020	0.04	0.04	0.0%	1.25	1.34	0.0%
GC20-0649-005	11/23/2020	0.18	0.18	1.2%	0.75	0.75	0.4%
GC20-0650-009	11/23/2020	0.10	0.10	5.4%	1.22	1.26	0.0%
GC20-0651-005	11/23/2020	0.08	0.07	6.3%	1.37	1.34	0.0%
GC20-0652-009	11/23/2020	0.11	0.11	0.0%	10.20	10.20	3.8%
1321007129	11/25/2020	0.34	0.34	0.0%	1.55	1.56	2.6%
1321007199	11/25/2020	0.11	0.11	0.0%	1.15	1.18	0.8%
1321007202	11/25/2020	0.12	0.12	0.0%	1.21	1.20	0.6%
1321007225	11/25/2020	0.39	0.39	0.0%	1.24	1.24	0.0%
1321007084	11/26/2020	0.31	0.31	0.7%	0.98	0.92	4.9%
1321007165	11/26/2020	0.37	0.37	0.7%	1.49	1.46	0.9%
1325001705	11/26/2020	1.34	1.35	28.6%	1.39	1.46	10.2%
1325001710	11/26/2020	1.36	1.37	1.3%	2.26	2.24	3.3%
1325001746	11/26/2020	0.76	0.75	40.0%	2.80	2.71	0.0%
1325001763	11/26/2020	0.60	0.45	9.5%	2.47	2.23	6.2%
1328070063	11/26/2020	0.87	0.82	0.0%	1.33	1.34	6.3%
1328070071	11/26/2020	0.22	0.20	0.0%	0.67	0.63	2.0%
1328070092	11/26/2020	0.06	0.04	5.9%	0.24	0.24	0.7%
1321007011	11/27/2020	0.14	0.16	0.0%	2.38	2.47	1.1%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1321007022	11/27/2020	0.10	0.12	0.0%	1.10	1.11	4.3%
1321007058	11/27/2020	0.01	0.01	66.7%	1.52	1.51	0.7%
1321007075	11/27/2020	0.15	0.15	0.0%	2.29	2.19	6.2%
1321007078	11/27/2020	0.06	0.06	18.2%	1.82	1.71	0.9%
1328070018	11/27/2020	0.45	0.43	0.0%	1.58	1.61	4.5%
1328070144	11/27/2020	0.74	0.64	13.3%	1.24	1.22	3.7%
1328070154	11/27/2020	0.49	0.49	3.0%	1.83	1.81	12.8%
1328070155	11/27/2020	0.55	0.55	0.0%	1.91	1.83	2.0%
1328070189	11/27/2020	0.44	0.45	4.5%	0.24	0.23	1.9%
1328070222	11/27/2020	1.09	1.08	2.2%	1.02	1.04	4.3%
1328070236	11/27/2020	0.58	0.57	0.0%	1.43	1.42	2.2%
1330050207	11/27/2020	0.47	0.47	1.9%	1.37	1.40	4.7%
1330050278	11/27/2020	0.53	0.54	1.7%	1.09	1.04	0.7%
1330050281	11/27/2020	0.36	0.36	14.5%	0.49	0.50	1.6%
1330050308	11/27/2020	0.33	0.34	0.9%	0.44	0.50	1.9%
1328070264	11/28/2020	0.50	0.52	2.1%	1.46	1.48	0.0%
1328070269	11/28/2020	0.75	0.76	3.9%	1.30	1.34	1.4%
1330050165	11/28/2020	0.48	0.49	1.3%	0.49	0.49	3.0%
1330050254	11/28/2020	0.83	0.83	0.0%	0.06	0.06	0.0%
1321007100	11/29/2020	0.15	0.14	2.1%	1.82	1.82	3.9%
1325001780	11/29/2020	0.98	0.96	4.3%	1.82	1.75	22.2%
1330050181	11/29/2020	1.26	1.28	1.0%	0.59	0.64	2.2%
1330050190	11/29/2020	0.46	0.48	1.6%	0.15	0.12	8.1%
1330050201	11/29/2020	1.03	1.04	6.9%	0.44	0.45	0.0%
1330050291	11/29/2020	0.56	0.55	2.4%	0.75	0.70	7.4%
1330050303	11/29/2020	0.73	0.69	1.8%	0.21	0.23	6.9%
1330050316	11/29/2020	0.42	0.41	5.6%	0.39	0.42	9.1%
1330050145	11/30/2020	1.04	1.07	1.9%	0.71	0.67	2.8%
1331011319	11/30/2020	0.32	0.32	4.1%	0.04	0.04	1.3%
1331011413	11/30/2020	0.40	0.39	1.7%	0.66	0.60	1.9%
1331011415	11/30/2020	0.56	0.58	0.0%	0.59	0.59	0.0%
1331011465	11/30/2020	0.57	0.55	2.8%	0.89	0.89	5.8%
1331011482	11/30/2020	0.49	0.48	2.5%	0.41	0.39	9.5%
1432096020	11/30/2020	1.58	1.61	2.1%	3.60	3.50	5.0%
1432096072	11/30/2020	1.76	1.69	3.6%	2.30	2.33	0.0%
1432096075	11/30/2020	1.76	1.79	3.5%	3.56	3.63	0.0%
1330050011	12/1/2020	0.75	0.75	2.9%	0.42	0.42	4.4%
1330050031	12/1/2020	0.70	0.68	1.6%	0.72	0.72	0.0%
1330050033	12/1/2020	0.87	0.85	0.0%	1.14	1.13	5.1%
1330050058	12/1/2020	0.74	0.72	0.0%	0.52	0.50	0.7%
1330050091	12/1/2020	0.64	0.64	2.9%	0.80	0.76	0.0%
1330050112	12/1/2020	1.36	1.36	2.8%	0.62	0.62	0.0%
1331006057	12/1/2020	0.85	0.84	2.7%	0.95	0.94	3.9%
1331011346	12/1/2020	0.34	0.35	0.0%	0.22	0.23	0.0%
1331011374	12/1/2020	0.82	0.82	2.5%	0.41	0.43	7.4%
1331011393	12/1/2020	0.73	0.71	0.0%	0.23	0.23	4.8%
1331011420	12/1/2020	0.78	0.80	1.2%	0.70	0.65	1.1%
1331011437	12/1/2020	0.67	0.67	2.3%	1.35	1.36	0.9%
1331011485	12/1/2020	0.62	0.63	0.0%	0.66	0.66	0.0%
1320001024	12/3/2020	0.28	0.27	5.4%	1.89	1.91	1.7%
1320001033	12/3/2020	0.22	0.22	0.0%	2.49	2.59	3.0%
1320001067	12/3/2020	0.26	0.27	2.6%	1.85	1.87	5.1%
1320001088	12/3/2020	0.29	0.30	2.1%	2.13	2.11	8.8%
1320001122	12/3/2020	0.19	0.18	0.0%	1.79	1.82	3.8%
1320001151	12/3/2020	0.35	0.35	0.0%	1.62	1.67	0.0%
1324029053	12/3/2020	0.93	0.94	3.0%	1.68	1.69	1.8%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1324029076	12/3/2020	1.90	1.81	1.9%	1.10	1.06	8.7%
1330050005	12/3/2020	1.05	1.07	1.6%	0.60	0.55	1.4%
1330050045	12/3/2020	0.75	0.75	0.5%	1.70	1.70	4.4%
1330050106	12/3/2020	0.71	0.71	0.0%	0.80	0.77	1.3%
1331006022	12/3/2020	0.98	1.01	0.0%	0.54	0.55	3.9%
1331006047	12/3/2020	2.18	2.18	3.8%	0.79	0.78	1.1%
1331006070	12/3/2020	2.12	2.13	3.6%	0.22	0.23	1.1%
1331006270	12/3/2020	0.38	0.39	3.4%	0.19	0.20	0.9%
1331006272	12/3/2020	1.87	1.84	5.4%	1.48	1.46	2.6%
1331007026	12/3/2020	0.87	0.86	0.0%	1.68	1.75	2.7%
1331007114	12/3/2020	0.91	0.91	1.6%	1.53	1.48	3.6%
1331011050	12/3/2020	0.53	0.53	1.2%	1.09	1.12	4.1%
1331011061	12/3/2020	0.64	0.65	0.0%	0.56	0.54	3.3%
1331011111	12/3/2020	0.36	0.38	1.1%	0.39	0.38	0.6%
1331011151	12/3/2020	0.49	0.48	4.9%	0.59	0.54	3.7%
1331006102	12/4/2020	1.41	1.46	2.6%	2.25	2.41	3.0%
1331006111	12/4/2020	1.97	1.97	1.4%	1.35	1.35	0.0%
1331006138	12/4/2020	1.38	1.40	2.0%	0.84	0.84	0.7%
1331006175	12/4/2020	1.92	1.92	1.1%	1.44	1.50	0.4%
1331006184	12/4/2020	1.80	1.83	1.7%	0.98	0.97	1.0%
1331006192	12/4/2020	0.49	0.51	2.1%	1.47	1.41	2.7%
1331006215	12/4/2020	1.50	1.47	0.0%	1.38	1.37	4.1%
1331006249	12/4/2020	2.10	2.11	0.0%	1.66	1.63	0.0%
1331006284	12/4/2020	1.91	1.87	0.5%	0.74	0.76	1.8%
1331006297	12/4/2020	2.19	2.16	1.4%	0.49	0.50	2.0%
1331006306	12/4/2020	1.85	1.83	0.4%	2.66	2.68	7.8%
1331006311	12/4/2020	2.70	2.65	1.9%	0.85	0.86	1.2%
1331006316	12/4/2020	2.32	2.31	0.0%	0.37	0.40	2.9%
1331006346	12/4/2020	1.80	1.82	4.0%	2.51	2.52	4.2%
1331011033	12/4/2020	0.37	0.37	1.8%	1.37	1.41	0.0%
1331011069	12/4/2020	0.57	0.56	3.5%	0.33	0.33	6.9%
1331011115	12/4/2020	0.38	0.39	1.1%	0.34	0.33	0.7%
1320001053	12/5/2020	0.22	0.21	5.4%	3.18	3.16	2.6%
1320001076	12/5/2020	0.14	0.15	0.0%	3.10	3.04	11.7%
1320001107	12/5/2020	0.13	0.12	0.0%	3.52	3.63	1.8%
1320002120	12/5/2020	0.34	0.32	1.2%	2.00	1.98	2.5%
1320003125	12/5/2020	0.25	0.25	0.0%	1.21	1.36	1.2%
1320003141	12/5/2020	0.17	0.19	3.5%	2.88	2.99	0.0%
1320003148	12/5/2020	0.95	0.95	8.0%	2.28	2.24	3.1%
1320003161	12/5/2020	0.18	0.19	6.9%	1.52	1.56	2.0%
1324029005	12/5/2020	1.19	1.21	5.7%	2.27	2.29	2.6%
1331006155	12/5/2020	1.77	1.72	11.1%	3.39	3.43	3.7%
1331007060	12/5/2020	0.85	0.81	4.7%	0.92	0.94	0.6%
1331007601	12/5/2020	1.17	1.13	6.1%	0.53	0.53	1.0%
1331007658	12/5/2020	1.00	1.00	4.8%	0.85	0.84	2.2%
1331007661	12/5/2020	0.86	0.87	1.7%	0.41	0.40	0.9%
1331007666	12/5/2020	0.18	0.17	2.9%	2.30	2.36	1.2%
1331014022	12/6/2020	0.48	0.47	0.0%	1.25	1.28	0.0%
1331014032	12/6/2020	0.57	0.57	0.0%	0.31	0.32	3.2%
1331014044	12/6/2020	0.31	0.31	7.2%	0.71	0.71	4.9%
1331014069	12/6/2020	0.40	0.40	0.0%	0.33	0.33	0.0%
1331014135	12/6/2020	0.63	0.64	2.1%	0.45	0.48	2.4%
1331014144	12/6/2020	0.72	0.67	1.7%	0.60	0.63	2.4%
1331014160	12/6/2020	0.58	0.59	1.6%	0.81	0.83	6.5%
1330051011	12/7/2020	1.02	1.05	0.0%	0.53	0.53	3.2%
1330051015	12/7/2020	1.67	1.63	0.0%	0.92	0.91	0.0%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1330051016	12/7/2020	0.60	0.60	0.0%	2.18	2.25	0.0%
1330051047	12/7/2020	1.40	1.39	2.9%	0.69	0.69	0.0%
1330051098	12/7/2020	1.26	1.33	2.5%	0.29	0.29	0.0%
1330051132	12/7/2020	1.03	1.03	5.4%	0.21	0.21	0.0%
1330051163	12/7/2020	2.46	2.41	0.7%	0.56	0.55	0.0%
1330051176	12/7/2020	1.04	1.03	2.4%	1.25	1.20	1.1%
1330051210	12/7/2020	1.81	1.81	0.0%	0.77	0.76	1.3%
1330051215	12/7/2020	0.63	0.63	2.1%	0.57	0.57	1.8%
1331007078	12/7/2020	1.10	1.12	1.0%	6.88	6.86	4.1%
1331007094	12/7/2020	2.29	2.29	1.8%	4.24	4.27	0.3%
1331007097	12/7/2020	1.88	1.93	2.6%	4.14	4.10	1.0%
1331007138	12/7/2020	2.11	2.11	0.0%	7.49	7.47	0.3%
1331007609	12/7/2020	1.19	1.22	0.0%	0.79	0.79	0.7%
1330051065	12/8/2020	1.30	1.23	3.2%	0.64	0.64	2.9%
1330051077	12/8/2020	0.96	0.95	1.0%	0.83	0.83	0.0%
1330051108	12/8/2020	0.92	0.95	5.5%	0.35	0.34	0.0%
1331014054	12/8/2020	0.53	0.53	0.0%	1.00	0.99	0.0%
1331014085	12/8/2020	0.48	0.48	0.0%	0.74	0.74	0.0%
1331014091	12/8/2020	0.64	0.60	0.0%	0.50	0.51	1.0%
1331014120	12/8/2020	0.32	0.32	6.5%	0.44	0.44	2.0%
1320002040	12/9/2020	0.19	0.19	0.0%	2.74	2.61	5.2%
1320002042	12/9/2020	0.09	0.09	1.6%	1.63	1.70	3.4%
1320002047	12/9/2020	0.16	0.16	0.0%	1.13	1.20	4.2%
1320002103	12/9/2020	0.20	0.20	0.0%	0.88	0.88	6.0%
1320003203	12/9/2020	1.29	1.27	0.0%	0.29	0.30	4.9%
1320003249	12/9/2020	0.23	0.23	0.0%	0.79	0.75	0.0%
1320003024	12/10/2020	0.13	0.13	0.0%	1.36	1.33	2.2%
1320003027	12/10/2020	0.21	0.21	0.0%	0.70	0.72	2.8%
1320003029	12/10/2020	0.29	0.29	0.0%	0.81	0.79	2.1%
1320003032	12/10/2020	0.20	0.20	0.0%	0.94	0.96	2.5%
1330051101	12/10/2020	1.71	1.81	1.8%	2.50	2.60	0.8%
1331015043	12/10/2020	1.64	1.58	5.7%	3.83	3.71	3.9%
1331015092	12/10/2020	1.86	1.88	3.7%	2.40	2.43	3.2%
1331015126	12/10/2020	1.64	1.67	1.1%	1.22	1.23	1.2%
1320004383	12/12/2020	0.25	0.26	4.7%	1.88	1.96	7.1%
1320004446	12/12/2020	0.21	0.22	3.9%	2.45	2.63	4.2%
1320004447	12/12/2020	0.53	0.53	0.0%	0.90	0.96	1.4%
1330052091	12/12/2020	0.37	0.37	2.0%	0.73	0.72	1.0%
1330052112	12/12/2020	0.49	0.50	1.9%	1.02	1.01	4.4%
1330052118	12/12/2020	0.52	0.53	0.0%	0.67	0.70	6.5%
1331015088	12/12/2020	1.24	1.29	4.0%	4.75	5.06	6.3%
1331015104	12/12/2020	1.63	1.63	0.0%	1.92	1.96	2.1%
1331015142	12/12/2020	1.91	1.95	2.1%	7.02	7.24	3.1%
1330052005	12/13/2020	0.86	0.87	1.2%	0.30	0.31	3.3%
1330052041	12/13/2020	0.58	0.60	3.4%	0.61	0.62	1.6%
1328073008	12/14/2020	0.19	0.18	5.3%	7.14	7.31	2.1%
1328073036	12/14/2020	0.97	0.92	5.4%	1.93	1.89	2.4%
1320003223	12/15/2020	0.40	0.40	0.0%	1.19	1.16	2.6%
1324030223	12/15/2020	0.91	0.91	0.8%	0.73	0.74	2.7%
1324030226	12/15/2020	0.69	0.70	1.9%	0.81	0.81	0.0%
1324030241	12/15/2020	1.19	1.20	1.4%	1.85	1.80	0.0%
1324030276	12/15/2020	0.52	0.51	0.0%	0.70	0.70	1.4%
1330052018	12/17/2020	0.68	0.67	28.6%	0.41	0.42	5.4%
1330052025	12/17/2020	0.28	0.27	12.5%	0.87	0.90	3.6%
1330052026	12/17/2020	0.94	0.98	3.6%	1.19	1.26	3.4%
1330052030	12/17/2020	0.51	0.52	0.0%	0.49	0.51	1.1%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1330052084	12/17/2020	0.49	0.50	0.0%	0.68	0.68	2.2%
1330052131	12/17/2020	0.17	0.15	2.0%	1.13	1.09	0.0%
1330052137	12/17/2020	0.37	0.37	1.9%	3.66	3.70	4.0%
1330052209	12/17/2020	0.06	0.08	1.9%	1.53	1.45	2.7%
1330052219	12/17/2020	0.46	0.46	1.5%	0.46	0.47	2.4%
1330052226	12/17/2020	0.52	0.53	4.2%	0.38	0.37	5.7%
1324030004	12/18/2020	0.80	0.80	2.2%	0.58	0.59	0.0%
1324030025	12/18/2020	1.31	1.31	0.0%	1.73	1.71	2.3%
1324030031	12/18/2020	1.34	1.35	3.4%	2.74	2.80	0.6%
1324030067	12/18/2020	0.57	0.59	1.7%	0.92	0.92	1.8%
1324030084	12/18/2020	0.91	0.91	1.7%	0.89	0.89	0.6%
1324030103	12/18/2020	1.67	1.65	1.3%	1.18	1.14	0.4%
1324030132	12/18/2020	0.83	0.83	3.5%	1.77	1.78	1.8%
1324030134	12/18/2020	0.63	0.64	1.7%	1.35	1.37	2.1%
1324030150	12/18/2020	0.43	0.43	0.9%	0.37	0.37	1.8%
1324030157	12/18/2020	0.85	0.86	0.0%	0.97	0.98	0.5%
1324030163	12/18/2020	0.84	0.84	0.0%	1.72	1.68	1.2%
1324030172	12/18/2020	1.17	1.18	0.7%	1.68	1.71	2.2%
1324030215	12/18/2020	0.31	0.31	1.2%	0.79	0.80	3.4%
1324030255	12/18/2020	1.30	1.30	0.0%	2.03	2.04	1.3%
1324031005	12/18/2020	1.17	1.19	0.0%	1.85	1.89	0.0%
1324031028	12/18/2020	0.61	0.60	3.4%	1.81	1.80	0.0%
1324031041	12/18/2020	0.85	0.88	1.6%	2.25	2.29	1.5%
1324031084	12/18/2020	0.54	0.54	0.0%	2.20	2.15	1.7%
1324031091	12/18/2020	0.60	0.58	0.0%	1.55	1.56	0.6%
1324031130	12/18/2020	0.60	0.59	0.0%	2.23	2.19	2.4%
1324031162	12/18/2020	0.79	0.80	1.2%	2.54	2.55	1.0%
1324031213	12/18/2020	0.47	0.46	0.0%	1.78	1.78	0.0%
1320004134	12/19/2020	0.56	0.56	5.4%	1.66	1.57	0.5%
1320004136	12/19/2020	0.08	0.08	0.0%	4.26	4.36	1.1%
1320004234	12/19/2020	0.18	0.19	0.0%	2.15	2.16	2.3%
1320004270	12/19/2020	0.21	0.21	0.0%	1.75	1.77	5.6%
1320004281	12/19/2020	0.45	0.41	0.9%	1.80	1.30	0.0%
1320004296	12/19/2020	0.33	0.33	6.5%	1.49	1.46	5.8%
1320004378	12/19/2020	0.29	0.28	2.3%	1.47	1.43	0.0%
1320004380	12/19/2020	0.31	0.32	0.0%	2.25	2.26	0.0%
1320004409	12/19/2020	0.24	0.25	0.7%	2.49	2.48	5.0%
1320004438	12/19/2020	0.37	0.37	2.9%	1.10	1.14	1.8%
1330053012	12/19/2020	2.23	2.20	1.3%	0.36	0.36	0.9%
1330053018	12/19/2020	1.94	1.95	1.2%	1.08	1.08	0.0%
1330053056	12/19/2020	1.80	1.79	0.6%	0.22	0.22	0.0%
1330053064	12/19/2020	2.36	2.31	0.0%	1.09	1.09	0.0%
1330053080	12/19/2020	2.13	2.15	1.1%	0.35	0.35	6.1%
1330053114	12/19/2020	1.80	1.80	1.6%	0.35	0.35	4.3%
1330053122	12/19/2020	1.36	1.40	0.5%	1.08	1.10	0.0%
1330053127	12/19/2020	1.90	1.88	1.4%	0.32	0.34	1.4%
1330053136	12/19/2020	2.32	2.40	0.5%	0.55	0.54	3.3%
1330053157	12/19/2020	1.53	1.51	0.9%	1.18	1.17	0.0%
1330053176	12/19/2020	1.27	1.30	1.4%	0.24	0.24	0.0%
1330053227	12/19/2020	2.76	2.73	2.1%	0.71	0.69	0.0%
1330053249	12/19/2020	2.12	2.09	3.4%	0.71	0.72	1.8%
1330053263	12/19/2020	2.08	2.09	1.1%	1.47	1.52	2.9%
1330053304	12/19/2020	1.39	1.38	4.1%	1.96	2.06	0.4%
1330053329	12/19/2020	1.09	1.08	3.5%	0.38	0.38	2.8%
1330053335	12/19/2020	1.33	1.33	3.2%	0.25	0.25	0.4%
1330053336	12/19/2020	1.20	1.28	0.0%	0.53	0.50	2.0%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1330053347	12/19/2020	1.93	1.90	0.0%	1.43	1.37	3.6%
1330053367	12/19/2020	1.62	1.60	9.3%	0.63	0.63	32.3%
1324090360	12/22/2020	0.10	0.10	0.0%	0.46	0.44	4.4%
1320006048	12/23/2020	0.43	0.43	1.5%	0.99	0.98	4.1%
1331008005	12/23/2020	1.17	1.18	0.0%	1.53	1.45	2.2%
1331008023	12/23/2020	1.41	1.44	1.6%	0.67	0.69	1.9%
1331008045	12/23/2020	1.08	1.09	2.1%	1.78	1.78	2.9%
1331008070	12/23/2020	1.68	1.64	2.4%	1.01	0.98	3.0%
1331008072	12/23/2020	1.84	1.91	3.7%	1.08	1.14	5.4%
1331008078	12/23/2020	0.41	0.41	0.5%	0.57	0.59	2.4%
1331008295	12/23/2020	1.97	2.05	4.0%	1.26	1.32	4.7%
1331008296	12/23/2020	1.80	1.83	0.0%	3.73	3.77	3.4%
1331008300	12/23/2020	1.93	1.94	0.0%	0.86	0.84	1.0%
1331008368	12/23/2020	1.56	1.64	6.2%	2.09	2.25	17.4%
1331008425	12/23/2020	0.75	0.75	0.9%	0.45	0.46	0.0%
1331008454	12/23/2020	1.28	1.26	0.9%	1.05	1.03	5.4%
1331008472	12/23/2020	0.69	0.68	5.0%	0.25	0.24	7.4%
1331008494	12/23/2020	1.00	0.94	1.7%	0.50	0.42	1.1%
1331008133	12/24/2020	1.87	1.92	0.8%	1.47	1.50	1.1%
1331008135	12/24/2020	1.58	1.57	0.6%	2.77	2.71	0.9%
1331008145	12/24/2020	1.83	1.89	3.2%	1.19	1.18	0.8%
1331008150	12/24/2020	2.02	2.06	2.6%	1.13	1.19	2.0%
1331008227	12/24/2020	1.70	1.69	2.0%	1.17	1.16	5.2%
1331008228	12/24/2020	1.26	1.25	0.6%	0.94	0.93	2.2%
1331008096	12/25/2020	1.49	1.52	0.7%	4.07	4.11	2.7%
1331008111	12/25/2020	1.68	1.70	1.2%	0.43	0.43	0.0%
1331008159	12/25/2020	1.49	1.48	6.5%	1.50	1.46	3.0%
1331008174	12/25/2020	0.30	0.32	2.7%	1.01	0.98	0.7%
1331008260	12/25/2020	1.10	1.11	0.9%	0.50	0.48	4.1%
1331009181	12/25/2020	0.36	0.37	2.0%	1.48	1.49	1.0%
1320006113	12/26/2020	0.24	0.22	10.9%	1.45	1.43	4.3%
1320006114	12/26/2020	0.30	0.32	3.2%	1.38	1.43	5.9%
1320006133	12/26/2020	0.47	0.50	0.0%	1.17	1.17	7.2%
1320006157	12/26/2020	0.16	0.15	1.1%	1.61	1.68	5.7%
1320006193	12/26/2020	0.18	0.18	6.5%	1.48	1.47	4.3%
1331008254	12/26/2020	0.49	0.49	0.0%	1.04	1.06	0.7%
1331008324	12/26/2020	0.93	0.94	8.7%	0.34	0.36	1.4%
1331009033	12/26/2020	0.29	0.26	6.5%	0.94	0.90	3.6%
1331009064	12/26/2020	0.73	0.73	0.0%	0.43	0.40	1.9%
1331009071	12/26/2020	0.32	0.31	6.2%	2.61	2.46	0.0%
1328074044	12/27/2020	0.90	0.86	0.0%	1.44	1.44	1.9%
1328074152	12/27/2020	0.80	0.81	3.9%	2.38	2.32	5.0%
1328074178	12/27/2020	0.67	0.68	1.8%	2.19	2.21	2.0%
1328074196	12/27/2020	0.58	0.59	5.4%	1.44	1.44	1.8%
1328074205	12/27/2020	0.12	0.12	12.5%	9.60	9.42	1.4%
1331008329	12/27/2020	0.48	0.50	6.7%	1.41	1.54	1.3%
1331008345	12/27/2020	0.56	0.57	0.0%	0.50	0.51	2.2%
1331008386	12/27/2020	0.52	0.50	4.1%	0.58	0.61	8.8%
1331009049	12/27/2020	0.52	0.52	0.0%	1.39	1.39	0.0%
1331009106	12/27/2020	0.18	0.19	0.0%	1.13	1.15	0.0%
1331009108	12/27/2020	0.34	0.30	1.7%	0.70	0.71	0.0%
1331009110	12/27/2020	0.39	0.39	1.5%	0.44	0.45	0.9%
1331009192	12/27/2020	0.29	0.31	1.2%	1.58	1.60	2.6%
1331009201	12/27/2020	0.51	0.51	4.5%	1.33	1.33	0.0%
1331009208	12/27/2020	1.14	1.04	9.2%	1.95	1.78	9.1%
1328074005	12/28/2020	0.63	0.64	3.0%	0.38	0.40	2.5%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1328074013	12/28/2020	0.59	0.61	8.5%	1.85	1.84	1.7%
1328074099	12/28/2020	0.56	0.57	1.8%	2.63	2.67	1.5%
1328074100	12/28/2020	0.96	0.98	3.3%	2.49	2.57	0.5%
1328074110	12/28/2020	0.62	0.61	1.6%	2.15	2.10	2.4%
1328074312	12/28/2020	0.61	0.63	3.2%	0.93	0.91	2.2%
1331009024	12/28/2020	0.33	0.34	1.6%	0.80	0.82	5.1%
1331009227	12/28/2020	0.37	0.34	2.1%	3.02	2.97	3.2%
1320007145	12/29/2020	0.18	0.16	0.0%	1.73	1.77	0.0%
1330064015	12/29/2020	0.38	0.38	2.2%	0.31	0.31	7.7%
1330064023	12/29/2020	0.46	0.47	2.2%	0.35	0.33	5.9%
1330064052	12/29/2020	0.68	0.67	1.5%	0.90	0.91	1.1%
1330064067	12/29/2020	0.38	0.37	11.8%	0.58	0.57	2.3%
1330064078	12/29/2020	0.43	0.43	2.7%	0.47	0.49	1.7%
1330064097	12/29/2020	0.48	0.48	0.0%	0.42	0.45	4.2%
1330064116	12/29/2020	0.46	0.47	0.0%	0.27	0.25	6.9%
1330064132	12/29/2020	0.58	0.59	1.7%	0.72	0.75	4.1%
1320007039	12/31/2020	0.17	0.17	0.0%	1.32	1.35	3.2%
1320007046	12/31/2020	0.18	0.17	0.9%	1.15	1.14	2.2%
1320007052	12/31/2020	0.15	0.15	0.8%	1.61	1.56	3.8%
1320007074	12/31/2020	0.12	0.12	1.5%	2.49	2.50	5.6%
1320007081	12/31/2020	0.28	0.29	0.0%	2.48	2.34	0.4%
1320007098	12/31/2020	0.27	0.27	5.7%	1.49	1.50	0.9%
1320007104	12/31/2020	1.01	0.98	0.0%	1.48	1.52	2.2%
1330058148	12/31/2020	1.21	1.20	0.0%	0.78	0.81	0.7%
1330058180	12/31/2020	1.16	1.17	3.5%	0.44	0.45	5.8%
1330058249	12/31/2020	1.34	1.32	3.0%	1.29	1.22	2.7%

Appendix A-2: Acid-Base Accounting Audit Data

Sample Site Name	Date	Total Carbon RRM LECO (wt.%)	Total Sulfur RRM LECO (wt.%)	LECO NP (kg CaCO ₃ /t)	LECO AP (kg CaCO ₃ /t)	LECO NPR	Sobek NP (kg CaCO ₃ /t)	MPA (kg CaCO ₃ /t)	Sobek NPR
1226002009	2/12/2020	0.19	0.50	15.21	15.63	0.97	37	15.0	2.47
1226002198	2/12/2020	0.39	1.80	31.22	56.25	0.56	29	53.9	0.53
1226002188	2/12/2020	0.27	1.78	21.62	55.63	0.39	22	53.6	0.41
1226002155	2/12/2020	0.87	2.14	69.66	66.88	1.04	61	62.2	0.99
1226002151	2/12/2020	0.17	0.89	13.61	27.81	0.49	6	24.8	0.24
1226002127	2/12/2020	0.95	2.26	76.06	70.63	1.08	68	67.4	1.01
1226002124	2/12/2020	0.24	0.52	19.22	16.25	1.18	4	15.9	0.27
1226002092	2/12/2020	0.19	0.82	15.21	25.63	0.59	9	23.6	0.36
1226002059	2/12/2020	0.72	2.14	57.65	66.88	0.86	43	65.2	0.66
1226002017	2/12/2020	0.52	0.43	41.63	13.44	3.10	44	13.2	3.33
1226002040	2/13/2020	0.23	0.37	18.41	11.56	1.59	11	11.0	0.99
1226005001	2/18/2020	0.38	1.57	30.42	49.06	0.62	19	48.4	0.39
1226005084	2/18/2020	0.71	1.01	56.85	31.56	1.80	44	31.9	1.39
1226005166	2/18/2020	0.26	0.88	20.82	27.50	0.76	20	24.8	0.81
1226005088	2/18/2020	0.11	0.92	8.81	28.75	0.31	7	25.1	0.27
1226005082	2/18/2020	0.44	1.46	35.23	45.63	0.77	23	44.7	0.52
1226005327	2/19/2020	0.22	3.28	17.61	102.50	0.17	16	99.5	0.16
1226013178	2/20/2020	0.22	2.69	17.61	84.06	0.21	16	85.8	0.18
1226005010	2/20/2020	0.40	0.84	32.03	26.25	1.22	22	24.8	0.89
1226005031	2/20/2020	0.20	0.51	16.01	15.94	1.00	14	16.5	0.86
1226013064	2/20/2020	0.22	2.91	17.61	90.94	0.19	8	86.4	0.09
1226005139	2/20/2020	0.07	1.39	5.60	43.44	0.13	6	43.5	0.14
1226013207	2/21/2020	0.29	2.42	23.22	75.63	0.31	10	72.9	0.14
1226013095	2/21/2020	0.17	1.97	13.61	61.56	0.22	10	57.3	0.17
1226013016	2/21/2020	0.08	2.82	6.41	88.13	0.07	8	83.3	0.10
1226013516	2/22/2020	0.21	2.50	16.81	78.13	0.22	11	79.3	0.14
1226013231	2/22/2020	0.31	2.06	24.82	64.38	0.39	10	65.8	0.15
1226013048	2/22/2020	0.36	1.64	28.82	51.25	0.56	16	53.0	0.30
1226013037	2/22/2020	0.36	0.81	28.82	25.31	1.14	19	23.0	0.84
1226013007	2/22/2020	0.27	1.17	21.62	36.56	0.59	20	35.5	0.56
1226013004	2/22/2020	0.29	0.81	23.22	25.31	0.92	16	22.0	0.71
1226013236	2/23/2020	0.30	1.90	24.02	59.38	0.40	13	63.1	0.21
1226013221	2/23/2020	0.29	1.72	23.22	53.75	0.43	13	51.8	0.24
1226013198	2/23/2020	0.21	1.37	16.81	42.81	0.39	12	44.7	0.27
1226005024	2/23/2020	0.41	0.97	32.83	30.31	1.08	25	33.1	0.76
1226005018	2/23/2020	0.33	1.06	26.42	33.13	0.80	16	34.9	0.44
1226005013	2/23/2020	0.32	0.63	25.62	19.69	1.30	16	19.0	0.85
1226013002	2/23/2020	0.47	2.49	37.63	77.81	0.48	26	77.8	0.33
1226005354	2/23/2020	0.19	1.14	15.21	35.63	0.43	5	32.8	0.16
1226005347	2/23/2020	0.17	1.19	13.61	37.19	0.37	5	37.1	0.14
1226005154	2/23/2020	0.21	0.81	16.81	25.31	0.66	7	23.0	0.31
1226005146	2/23/2020	0.27	1.60	21.62	50.00	0.43	11	49.3	0.23
1226010042	2/23/2020	0.22	0.29	17.61	9.06	1.94	13	8.6	1.47
1226010005	2/23/2020	0.24	0.57	19.22	17.81	1.08	14	16.2	0.86
1226010096	2/24/2020	0.44	0.43	35.23	13.44	2.62	7	11.9	0.63
1226010091	2/24/2020	0.24	0.25	19.22	7.81	2.46	9	7.4	1.21
1226010062	2/24/2020	0.21	0.29	16.81	9.06	1.86	4	9.2	0.48
1226010026	2/24/2020	0.37	0.61	29.62	19.06	1.55	27	19.0	1.44
1226010020	2/24/2020	0.46	0.44	36.83	13.75	2.68	26	12.6	2.06
1226010202	2/25/2020	0.22	0.38	17.61	11.88	1.48	10	11.6	0.85
1226010169	2/25/2020	0.28	0.46	22.42	14.38	1.56	16	14.4	1.11
1226010163	2/25/2020	0.32	0.58	25.62	18.13	1.41	20	17.5	1.15
1226010141	2/25/2020	0.20	0.45	16.01	14.06	1.14	7	13.5	0.55
1226011093	2/26/2020	0.07	0.11	5.60	3.44	1.63	5	3.1	1.72
1226011270	2/26/2020	0.20	2.30	16.01	71.88	0.22	11	70.7	0.16
1226011230	2/26/2020	0.22	1.76	17.61	55.00	0.32	10	83.6	0.12
1226011219	2/26/2020	0.42	1.85	33.63	57.81	0.58	30	55.4	0.53
1226011202	2/26/2020	0.32	2.37	25.62	74.06	0.35	15	74.1	0.21
1226011197	2/26/2020	0.12	2.16	9.61	67.50	0.14	4	65.5	0.06

Appendix A-2: Acid-Base Accounting Audit Data

Sample Site Name	Date	Total Carbon RRM LECO (wt.%)	Total Sulfur RRM LECO (wt.%)	LECO NP (kg CaCO ₃ /t)	LECO AP (kg CaCO ₃ /t)	LECO NPR	Sobek NP (kg CaCO ₃ /t)	MPA (kg CaCO ₃ /t)	Sobek NPR
1226011181	2/26/2020	0.19	0.34	15.21	10.63	1.43	13	10.4	1.23
1226011099	2/26/2020	0.51	0.80	40.83	25.00	1.63	8	22.4	0.37
1226011085	2/26/2020	0.25	0.09	20.02	2.81	7.12	17	2.8	6.20
1226010228	2/26/2020	0.22	0.56	17.61	17.50	1.01	11	18.1	0.61
1226010210	2/26/2020	0.25	0.43	20.02	13.44	1.49	8	12.9	0.66
1226011145	2/26/2020	0.31	0.09	24.82	2.81	8.82	8	2.8	3.07
1226010111	2/26/2020	0.28	0.37	22.42	11.56	1.94	81	11.0	7.38
1226010107	2/26/2020	0.22	0.39	17.61	12.19	1.45	9	12.3	0.70
1226011084	2/28/2020	0.17	0.13	13.61	4.06	3.35	12	3.4	3.50
1226011055	2/28/2020	0.23	0.11	18.41	3.44	5.36	9	3.1	2.90
1226006152	2/28/2020	0.16	0.85	12.81	26.56	0.48	12	27.3	0.42
1226006139	2/28/2020	0.12	1.36	9.61	42.50	0.23	9	39.5	0.22
1226006117	2/28/2020	0.33	0.74	26.42	23.13	1.14	9	22.4	0.39
1226006098	2/28/2020	0.25	1.25	20.02	39.06	0.51	10	42.0	0.23
1226006031	2/28/2020	0.23	0.71	18.41	22.19	0.83	12	22.0	0.55
1226006001	2/28/2020	0.32	1.38	25.62	43.13	0.59	17	41.7	0.41
1226011024	2/29/2020	0.15	0.84	12.01	26.25	0.46	9	25.1	0.38
1226011015	2/29/2020	0.12	0.64	9.61	20.00	0.48	5	21.1	0.24
1226011011	2/29/2020	0.12	0.59	9.61	18.44	0.52	7	17.5	0.42
1226006023	2/29/2020	0.33	1.25	26.42	39.06	0.68	19	38.6	0.50
1226006180	2/29/2020	0.21	1.78	16.81	55.63	0.30	11	56.3	0.19
1226006176	2/29/2020	0.22	2.10	17.61	65.63	0.27	11	63.4	0.18
1226006169	2/29/2020	0.17	0.86	13.61	26.88	0.51	63	24.8	2.53
1226006167	2/29/2020	0.12	0.71	9.61	22.19	0.43	10	22.0	0.46
1226006044	2/29/2020	0.31	1.29	24.82	40.31	0.62	17	39.5	0.42
1226006416	2/29/2020	0.43	1.27	34.43	39.69	0.87	31	37.7	0.81
1226006433	2/29/2020	0.29	1.27	23.22	39.69	0.59	15	38.6	0.39
1226006013	2/29/2020	0.31	1.04	24.82	32.50	0.76	22	34.6	0.63
1226006042	2/29/2020	0.32	1.16	25.62	36.25	0.71	12	35.8	0.34
1226006195	2/29/2020	0.31	2.28	24.82	71.25	0.35	17	69.8	0.24
1226006435	2/29/2020	0.43	0.95	34.43	29.69	1.16	33	29.4	1.11
1227015347	3/1/2020	1.18	2.23	94.48	69.69	1.36	74	69.5	1.06
1227015257	3/1/2020	0.84	1.34	67.25	41.88	1.61	55	40.7	1.35
1227015183	3/1/2020	0.67	0.99	53.64	30.94	1.73	45	24.5	1.82
1227015148	3/1/2020	0.26	1.34	20.82	41.88	0.50	14	41.7	0.34
1227015137	3/1/2020	0.54	1.03	43.23	32.19	1.34	15	29.7	0.51
1227015135	3/1/2020	0.26	1.12	20.82	35.00	0.59	22	33.1	0.66
1227015066	3/1/2020	0.25	0.08	20.02	2.50	8.01	19	2.8	6.96
1227015270	3/1/2020	1.25	1.72	100.08	53.75	1.86	96	55.7	1.72
1227015017	3/1/2020	0.31	0.84	24.82	26.25	0.95	15	24.2	0.63
1226007163	3/3/2020	0.22	1.90	17.61	59.38	0.30	11	51.5	0.21
1226007198	3/3/2020	0.24	0.47	19.22	14.69	1.31	9	14.7	0.64
1226007169	3/3/2020	0.15	1.75	12.01	54.69	0.22	9	52.1	0.18
1226007151	3/3/2020	0.22	2.00	17.61	62.50	0.28	6	61.3	0.10
1226007129	3/3/2020	0.25	1.67	20.02	52.19	0.38	14	44.7	0.30
1226007127	3/3/2020	0.25	1.47	20.02	45.94	0.44	14	45.0	0.31
1226007125	3/3/2020	0.30	2.18	24.02	68.13	0.35	13	65.8	0.19
1226007100	3/3/2020	0.15	1.71	12.01	53.44	0.22	8	49.9	0.17
1226007074	3/3/2020	0.16	0.88	12.81	27.50	0.47	7	26.3	0.28
1226007069	3/3/2020	0.15	1.52	12.01	47.50	0.25	7	45.0	0.16
1226007051	3/3/2020	0.22	2.02	17.61	63.13	0.28	9	58.8	0.15
1226007022	3/3/2020	0.23	1.68	18.41	52.50	0.35	6	51.5	0.12
1226007019	3/3/2020	0.12	1.07	9.61	33.44	0.29	5	30.0	0.16
1226007173	3/3/2020	0.22	1.43	17.61	44.69	0.39	8	48.4	0.17
1227015289	3/5/2020	1.07	1.58	85.67	49.38	1.74	82	49.9	1.65
1227015273	3/5/2020	1.34	0.97	107.29	30.31	3.54	107	24.2	4.42
1227015169	3/5/2020	0.26	1.15	20.82	35.94	0.58	14	26.0	0.53
1227015126	3/5/2020	0.14	0.08	11.21	2.50	4.48	7	2.1	3.44
1227015077	3/5/2020	0.30	0.67	24.02	20.94	1.15	25	19.0	1.32

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Sample Site Name	Date	Total Carbon RRM LECO (wt.%)	Total Sulfur RRM LECO (wt.%)	LECO NP (kg CaCO ₃ /t)	LECO AP (kg CaCO ₃ /t)	LECO NPR	Sobek NP (kg CaCO ₃ /t)	MPA (kg CaCO ₃ /t)	Sobek NPR
1227015010	3/5/2020	0.33	6.36	26.42	198.75	0.13	13	145.0	0.09
1227015037	3/5/2020	0.19	2.51	15.21	78.44	0.19	12	77.2	0.16
1227015245	3/6/2020	0.08	1.98	6.41	61.88	0.10	67	56.3	1.19
1227015240	3/6/2020	0.31	0.14	24.82	4.38	5.67	12	3.7	3.32
1227015200	3/6/2020	0.17	0.10	13.61	3.13	4.36	13	3.1	4.28
1227016047	3/7/2020	0.21	3.08	16.81	96.25	0.17	11	89.1	0.12
1227016045	3/7/2020	0.54	3.71	43.23	115.94	0.37	33	112.0	0.29
1227016037	3/7/2020	0.03	2.34	2.40	73.13	0.03	3	68.3	0.05
1227016024	3/7/2020	0.04	0.14	3.20	4.38	0.73	2	3.7	0.51
1227016023	3/7/2020	0.06	0.23	4.80	7.19	0.67	3	5.8	0.47
1227016020	3/7/2020	0.03	2.98	2.40	93.13	0.03	1	94.6	0.01
1227016014	3/7/2020	0.13	3.82	10.41	119.38	0.09	2	119.0	0.02
1227016090	3/7/2020	0.59	1.36	47.24	42.50	1.11	49	42.0	1.16
1227016050	3/7/2020	0.47	2.86	37.63	89.38	0.42	23	86.7	0.26
1227016057	3/7/2020	0.55	1.10	44.04	34.38	1.28	43	34.6	1.24
1227016186	3/7/2020	0.75	2.18	60.05	68.13	0.88	53	64.6	0.83
1227016146	3/7/2020	0.35	3.03	28.02	94.69	0.30	19	90.3	0.21
1227016126	3/7/2020	0.88	2.69	70.46	84.06	0.84	57	90.0	0.63
1227016117	3/7/2020	0.82	1.44	65.65	45.00	1.46	55	45.9	1.20
1227016101	3/7/2020	0.46	2.33	36.83	72.81	0.51	30	69.5	0.44
1226022157	3/8/2020	0.28	1.58	22.42	49.38	0.45	10	49.3	0.20
1226022107	3/8/2020	0.07	1.46	5.60	45.63	0.12	5	44.1	0.12
1226022097	3/8/2020	0.18	1.50	14.41	46.88	0.31	7	44.7	0.17
1226022080	3/8/2020	0.42	1.50	33.63	46.88	0.72	29	29.1	0.98
1226022171	3/8/2020	0.11	2.13	8.81	66.56	0.13	6	61.9	0.09
1226022172	3/8/2020	0.09	2.43	7.21	75.94	0.09	4	77.8	0.05
1226022163	3/8/2020	0.62	1.38	49.64	43.13	1.15	50	42.9	1.16
1226022300	3/8/2020	0.52	1.31	41.63	40.94	1.02	26	39.8	0.66
1226022273	3/8/2020	0.17	1.31	13.61	40.94	0.33	10	38.9	0.25
1226022268	3/8/2020	0.16	1.46	12.81	45.63	0.28	7	45.3	0.15
1226022182	3/8/2020	0.13	1.11	10.41	34.69	0.30	7	34.9	0.20
1226022040	3/10/2020	0.53	3.82	42.43	119.38	0.36	35	119.0	0.29
1226022029	3/10/2020	0.50	4.30	40.03	134.38	0.30	34	137.0	0.25
1226022027	3/10/2020	0.22	1.25	17.61	39.06	0.45	7	36.8	0.19
1226022006	3/10/2020	0.45	0.99	36.03	30.94	1.16	29	29.1	1.00
1226022002	3/10/2020	0.49	3.56	39.23	111.25	0.35	32	112.0	0.29
1226022001	3/10/2020	0.46	5.12	36.83	160.00	0.23	29	153.0	0.19
1226022265	3/10/2020	0.22	1.03	17.61	32.19	0.55	8	29.1	0.27
1226022229	3/10/2020	0.17	1.03	13.61	32.19	0.42	5	33.1	0.17
1227016247	3/10/2020	1.49	2.12	119.30	66.25	1.80	92	63.1	1.45
1227016240	3/10/2020	3.40	0.90	272.22	28.13	9.68	128	27.0	4.74
1226014265	3/11/2020	0.17	1.99	13.61	62.19	0.22	11	61.9	0.17
1226014251	3/11/2020	0.18	0.28	14.41	8.75	1.65	10	68.0	0.14
1226014211	3/11/2020	0.32	1.92	25.62	60.00	0.43	15	54.8	0.26
1226014209	3/11/2020	0.38	1.76	30.42	55.00	0.55	21	52.1	0.40
1226014199	3/11/2020	0.15	0.15	12.01	4.69	2.56	9	5.2	1.65
1226014310	3/11/2020	0.24	2.39	19.22	74.69	0.26	14	71.4	0.20
1226014293	3/11/2020	0.32	1.94	25.62	60.63	0.42	15	57.9	0.25
1226014304	3/11/2020	0.26	1.66	20.82	51.88	0.40	10	47.8	0.20
1226014376	3/11/2020	0.27	1.65	21.62	51.56	0.42	18	46.9	0.39
1226014082	3/12/2020	0.25	3.16	20.02	98.75	0.20	12	95.2	0.12
1226014074	3/12/2020	0.25	2.08	20.02	65.00	0.31	13	63.4	0.20
1226014024	3/12/2020	0.33	2.21	26.42	69.06	0.38	14	65.5	0.22
1226014020	3/12/2020	0.30	1.72	24.02	53.75	0.45	20	54.2	0.37
1226014013	3/12/2020	0.24	0.18	19.22	5.63	3.42	6	4.9	1.20
1226014050	3/13/2020	0.37	2.37	29.62	74.06	0.40	15	69.2	0.22
1226014230	3/13/2020	0.28	1.58	22.42	49.38	0.45	13	47.8	0.28
1226014121	3/13/2020	0.30	1.55	24.02	48.44	0.50	16	49.0	0.33
1226014051	3/13/2020	0.24	2.68	19.22	83.75	0.23	12	80.5	0.15

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Sample Site Name	Date	Total Carbon RRM LECO (wt.%)	Total Sulfur RRM LECO (wt.%)	LECO NP (kg CaCO ₃ /t)	LECO AP (kg CaCO ₃ /t)	LECO NPR	Sobek NP (kg CaCO ₃ /t)	MPA (kg CaCO ₃ /t)	Sobek NPR
1226014008	3/13/2020	0.26	2.71	20.82	84.69	0.25	11	84.5	0.12
1226014067	3/13/2020	0.24	1.87	19.22	58.44	0.33	16	55.1	0.29
1226014334	3/13/2020	0.46	1.75	36.83	54.69	0.67	28	50.8	0.56
1226014289	3/15/2020	0.30	1.63	24.02	50.94	0.47	18	47.5	0.38
1226004260	3/16/2020	0.21	1.55	16.81	48.44	0.35	15	45.9	0.32
1226015228	3/19/2020	0.12	0.68	9.61	21.25	0.45	9	23.3	0.38
1226015100	3/19/2020	0.22	1.21	17.61	37.81	0.47	8	35.8	0.23
1226015064	3/20/2020	0.22	1.24	17.61	38.75	0.45	13	39.8	0.33
1226015062	3/20/2020	0.35	0.91	28.02	28.44	0.99	22	28.5	0.78
1226015038	3/20/2020	1.08	0.68	86.47	21.25	4.07	80	19.9	3.99
1226015155	3/31/2020	0.27	0.09	21.62	2.81	7.69	20	3.1	6.37
1226015363	3/31/2020	0.15	0.74	12.01	23.13	0.52	9	22.0	0.39
1226015356	3/31/2020	0.17	0.65	13.61	20.31	0.67	7	18.7	0.38
1226015312	3/31/2020	0.07	2.44	5.60	76.25	0.07	8	72.0	0.11
1226015265	3/31/2020	0.15	2.00	12.01	62.50	0.19	10	56.3	0.18
1226015255	3/31/2020	0.17	0.09	13.61	2.81	4.84	12	3.1	3.82
1226015159	3/31/2020	0.15	1.16	12.01	36.25	0.33	12	36.4	0.33
1226015106	3/31/2020	0.30	0.65	24.02	20.31	1.18	22	20.8	1.05
1226015080	3/31/2020	0.20	0.75	16.01	23.44	0.68	16	23.0	0.70
1226015203	3/31/2020	0.30	0.44	24.02	13.75	1.75	20	13.5	1.44
1226015222	4/2/2020	0.26	0.60	20.82	18.75	1.11	11	17.5	0.63
1226015002	4/2/2020	0.39	2.68	31.22	83.75	0.37	13	81.8	0.16
1226015001	4/2/2020	0.10	3.49	8.01	109.06	0.07	9	108.0	0.08
1226016288	4/3/2020	0.07	0.10	5.60	3.13	1.79	5	2.8	1.86
1226016330	4/3/2020	0.22	2.14	17.61	66.88	0.26	19	64.3	0.30
1226016274	4/3/2020	0.17	1.62	13.61	50.63	0.27	7	52.4	0.13
1226016250	4/3/2020	0.14	2.78	11.21	86.88	0.13	4	87.3	0.05
1226016169	4/3/2020	0.09	2.31	7.21	72.19	0.10	11	65.5	0.16
1226016137	4/3/2020	0.29	2.43	23.22	75.94	0.31	14	75.0	0.19
1226016234	4/4/2020	0.04	0.07	3.20	2.19	1.46	7	2.1	3.21
1226016224	4/4/2020	0.12	2.02	9.61	63.13	0.15	11	61.9	0.18
1226016205	4/4/2020	0.08	2.93	6.41	91.56	0.07	5	86.7	0.06
1226016115	4/4/2020	0.05	3.40	4.00	106.25	0.04	5	107.0	0.05
1226016110	4/4/2020	0.12	1.02	9.61	31.88	0.30	10	32.8	0.30
1226016104	4/4/2020	0.06	1.16	4.80	36.25	0.13	6	35.2	0.18
1226017322	4/5/2020	0.18	2.79	14.41	87.19	0.17	7	87.0	0.08
1226017222	4/5/2020	0.22	1.57	17.61	49.06	0.36	11	50.8	0.22
1226017215	4/5/2020	0.02	3.71	1.60	115.94	0.01	3	112.0	0.03
1226017085	4/5/2020	0.24	4.95	19.22	154.69	0.12	21	148.0	0.14
1226017032	4/5/2020	0.09	1.34	7.21	41.88	0.17	9	40.1	0.21
1226016068	4/5/2020	0.22	2.43	17.61	75.94	0.23	9	72.9	0.12
1226017429	4/5/2020	0.21	2.79	16.81	87.19	0.19	9	86.1	0.11
1226017021	4/5/2020	0.20	1.12	16.01	35.00	0.46	144	35.2	4.09
1226017398	4/5/2020	0.35	2.54	28.02	79.38	0.35	7	80.5	0.09
1226017443	4/5/2020	0.15	2.88	12.01	90.00	0.13	5	63.7	0.07
1226016050	4/5/2020	0.15	1.09	12.01	34.06	0.35	17	32.5	0.52
1226016048	4/5/2020	0.28	1.28	22.42	40.00	0.56	21	35.2	0.59
1226016031	4/5/2020	0.18	2.62	14.41	81.88	0.18	9	77.5	0.11
1226016027	4/5/2020	0.13	0.14	10.41	4.38	2.38	5	3.7	1.32
1226017202	4/8/2020	0.17	2.46	13.61	76.88	0.18	8	76.9	0.10
1226020109	4/8/2020	0.20	1.49	16.01	46.56	0.34	16	46.5	0.34
1226017150	4/9/2020	0.18	0.57	14.41	17.81	0.81	8	16.5	0.51
1226017107	4/9/2020	0.28	0.53	22.42	16.56	1.35	18	15.6	1.13
1226017105	4/9/2020	0.28	0.90	22.42	28.13	0.80	18	25.7	0.70
1226020200	4/9/2020	0.14	1.21	11.21	37.81	0.30	8	37.7	0.22
1226020410	4/9/2020	0.17	3.09	13.61	96.56	0.14	6	95.2	0.06
1226020180	4/9/2020	0.25	1.68	20.02	52.50	0.38	13	53.9	0.24
1226020141	4/9/2020	0.14	1.97	11.21	61.56	0.18	3	61.3	0.05
1226020069	4/9/2020	0.04	0.24	3.20	7.50	0.43	3	8.3	0.33

Appendix A-2: Acid-Base Accounting Audit Data

Sample Site Name	Date	Total Carbon RRM LECO (wt.%)	Total Sulfur RRM LECO (wt.%)	LECO NP (kg CaCO ₃ /t)	LECO AP (kg CaCO ₃ /t)	LECO NPR	Sobek NP (kg CaCO ₃ /t)	MPA (kg CaCO ₃ /t)	Sobek NPR
1226020057	4/9/2020	0.26	1.95	20.82	60.94	0.34	12	60.9	0.20
1226020048	4/9/2020	0.47	2.13	37.63	66.56	0.57	30	67.1	0.44
1226020039	4/9/2020	0.82	1.43	65.65	44.69	1.47	60	44.1	1.35
1226020704	4/9/2020	0.08	1.49	6.41	46.56	0.14	5	44.4	0.12
1225002321	4/9/2020	0.84	2.78	67.25	86.88	0.77	69	86.1	0.80
1225002244	4/9/2020	0.65	2.25	52.04	70.31	0.74	35	68.6	0.51
1225002344	4/9/2020	0.88	2.02	70.46	63.13	1.12	64	62.5	1.03
1226017337	4/10/2020	0.26	2.99	20.82	93.44	0.22	14	91.0	0.16
1226020324	4/10/2020	0.12	0.43	9.61	13.44	0.71	5	13.5	0.37
1226020223	4/10/2020	0.18	2.94	14.41	91.88	0.16	12	90.7	0.13
1226020152	4/10/2020	0.16	3.60	12.81	112.50	0.11	9	113.0	0.08
1226020228	4/10/2020	0.16	0.47	12.81	14.69	0.87	14	14.7	0.93
1226020417	4/10/2020	0.29	3.10	23.22	96.88	0.24	20	94.9	0.21
1226020588	4/10/2020	0.81	2.14	64.85	66.88	0.97	64	68.0	0.94
1226020503	4/10/2020	0.75	1.68	60.05	52.50	1.14	59	53.0	1.12
1226020419	4/10/2020	0.71	3.22	56.85	100.63	0.56	28	93.1	0.30
1225002271	4/10/2020	0.46	1.20	36.83	37.50	0.98	31	38.9	0.80
1225002259	4/10/2020	0.42	2.16	33.63	67.50	0.50	33	68.3	0.49
1225002242	4/10/2020	0.74	1.77	59.25	55.31	1.07	55	56.7	0.97
1225002230	4/10/2020	0.46	1.51	36.83	47.19	0.78	33	49.6	0.67
1225002228	4/10/2020	0.55	1.42	44.04	44.38	0.99	34	46.5	0.73
1225002330	4/10/2020	0.59	1.76	47.24	55.00	0.86	33	51.5	0.64
1225002333	4/10/2020	0.71	2.04	56.85	63.75	0.89	47	62.5	0.76
1226017384	4/11/2020	0.14	2.45	11.21	76.56	0.15	4	83.3	0.05
1225002133	4/11/2020	0.47	2.81	37.63	87.81	0.43	29	84.5	0.34
1225002204	4/11/2020	0.36	1.96	28.82	61.25	0.47	30	62.5	0.48
1225002186	4/11/2020	0.30	2.28	24.02	71.25	0.34	23	70.1	0.33
1225002174	4/11/2020	0.36	2.16	28.82	67.50	0.43	21	66.5	0.31
1225002145	4/11/2020	0.45	2.42	36.03	75.63	0.48	27	76.3	0.35
1225002125	4/11/2020	0.25	1.66	20.02	51.88	0.39	14	51.5	0.27
1225002086	4/11/2020	0.28	2.11	22.42	65.94	0.34	18	65.2	0.27
1225002074	4/11/2020	0.90	3.11	72.06	97.19	0.74	34	95.9	0.35
1225002072	4/11/2020	0.91	2.81	72.86	87.81	0.83	14	83.9	0.16
1225002060	4/11/2020	0.35	2.66	28.02	83.13	0.34	19	75.9	0.25
1225002045	4/11/2020	0.41	2.07	32.83	64.69	0.51	25	64.6	0.38
1225002038	4/11/2020	0.24	2.74	19.22	85.63	0.22	12	79.9	0.15
1225002029	4/11/2020	0.34	2.47	27.22	77.19	0.35	17	79.0	0.22
1225002016	4/11/2020	0.23	3.30	18.41	103.13	0.18	13	87.6	0.14
1225002004	4/11/2020	0.27	2.49	21.62	77.81	0.28	13	73.8	0.18
1225002165	4/11/2020	0.49	1.91	39.23	59.69	0.66	27	59.1	0.46
1226020380	4/12/2020	0.17	0.09	13.61	2.81	4.84	16	3.1	5.26
1226020365	4/12/2020	0.29	2.09	23.22	65.31	0.36	17	64.0	0.26
1226020339	4/12/2020	0.95	2.30	76.06	71.88	1.06	54	72.0	0.75
1226020288	4/12/2020	0.15	1.52	12.01	47.50	0.25	5	47.2	0.11
1226020284	4/12/2020	0.14	5.76	11.21	180.00	0.06	15	176.0	0.08
1226020261	4/12/2020	0.31	2.12	24.82	66.25	0.37	27	67.1	0.40
1226020250	4/12/2020	3.72	0.37	297.84	11.56	25.76	185	12.3	15.04
1226020028	4/12/2020	0.60	1.82	48.04	56.88	0.84	40	54.8	0.73
1226020438	4/12/2020	0.19	0.23	15.21	7.19	2.12	7	7.4	0.97
1226020466	4/12/2020	0.32	0.43	25.62	13.44	1.91	23	12.6	1.81
1226020459	4/12/2020	0.20	2.26	16.01	70.63	0.23	11	67.7	0.16
1226020393	4/13/2020	2.36	1.31	188.95	40.94	4.62	153	40.4	3.79
1226020615	4/13/2020	0.34	2.13	27.22	66.56	0.41	25	71.1	0.35
1226020552	4/13/2020	0.34	0.81	27.22	25.31	1.08	28	24.2	1.14
1226020538	4/13/2020	0.24	1.56	19.22	48.75	0.39	15	48.1	0.31
1226020480	4/13/2020	1.41	2.28	112.89	71.25	1.58	100	63.7	1.57
1226024159	4/13/2020	0.27	0.69	21.62	21.56	1.00	17	21.7	0.80
1226024139	4/13/2020	0.17	2.08	13.61	65.00	0.21	8	61.6	0.13
1226024124	4/13/2020	0.27	1.38	21.62	43.13	0.50	15	42.0	0.36

Appendix A-2: Acid-Base Accounting Audit Data

Sample Site Name	Date	Total Carbon RRM LECO (wt.%)	Total Sulfur RRM LECO (wt.%)	LECO NP (kg CaCO ₃ /t)	LECO AP (kg CaCO ₃ /t)	LECO NPR	Sobek NP (kg CaCO ₃ /t)	MPA (kg CaCO ₃ /t)	Sobek NPR
1226024062	4/13/2020	0.17	1.55	13.61	48.44	0.28	9	50.2	0.18
1226024058	4/13/2020	0.28	1.32	22.42	41.25	0.54	16	41.3	0.39
1226024051	4/13/2020	0.23	1.93	18.41	60.31	0.31	10	59.7	0.16
1226024036	4/13/2020	0.25	1.18	20.02	36.88	0.54	10	38.0	0.27
1226024088	4/14/2020	0.32	0.78	25.62	24.38	1.05	17	22.7	0.76
1226024112	4/14/2020	0.35	1.75	28.02	54.69	0.51	15	55.1	0.27
1226024086	4/14/2020	0.40	0.91	32.03	28.44	1.13	23	27.0	0.86
1226024114	4/14/2020	0.38	0.85	30.42	26.56	1.15	20	24.2	0.81
1225002455	4/14/2020	0.22	0.37	17.61	11.56	1.52	9	13.2	0.68
1225002440	4/14/2020	0.31	1.03	24.82	32.19	0.77	15	30.3	0.51
1225002430	4/14/2020	0.35	0.58	28.02	18.13	1.55	16	17.8	0.89
1225002422	4/14/2020	0.18	0.86	14.41	26.88	0.54	8	27.0	0.31
1225002402	4/14/2020	0.56	0.78	44.84	24.38	1.84	17	23.9	0.72
1226021011	4/15/2020	0.61	1.02	48.84	31.88	1.53	30	30.0	0.99
1226021443	4/16/2020	0.32	1.42	25.62	44.38	0.58	16	46.5	0.33
1226021447	4/16/2020	0.54	0.95	43.23	29.69	1.46	33	29.4	1.12

Appendix B

Independent Laboratory Certificates of Analysis



Report No.: A20-00325
 Report Date: 07-Feb-20
 Date Submitted: 09-Jan-20
 Your Reference: 2019 December Check Assays

New Gold Inc.
 1800-Two Bentall Centre
 555 Burrard Street, Box 212
 Vancouver BC V7X 1M9
 Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

69 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek	Acid Base Accounting	2020-02-03 21:29:54
4F-C, S	Infrared	2020-01-31 20:38:14

REPORT A20-00325

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Esemé, Ph.D.
 Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
 41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
 TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613
 E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Report No.: A20-00325
Report Date: 07-Feb-20
Date Submitted: 09-Jan-20
Your Reference: 2019 December Check Assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

69 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2020-01-19 14:35:32
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2020-01-23 19:57:11

REPORT **A20-00325**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:



Emmanuel Esemé, Ph.D.
Quality Control Coordinator

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Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
V845145							121	1.7	< 0.5	59	360	4	13	8	67	1.45	< 2	< 10	82	< 0.5	< 2	1.18	13
1228031136	26.7	27.9	1.25	30.0	0.930	8.66	356	0.4	< 0.5	109	304	2	13	5	92	1.89	8	18	42	< 0.5	< 2	1.63	7
1234005450	12.2	17.7	5.53	15.0	1.18	9.37	11	0.2	< 0.5	18	503	< 1	19	< 2	120	2.15	14	< 10	79	< 0.5	< 2	1.52	11
1228031131	22.3	11.4	-10.9	25.7	0.442	8.68	205	0.8	< 0.5	299	296	1	10	2	36	1.83	11	11	33	< 0.5	5	0.85	11
1228031097	38.5	51.5	12.9	43.2	1.19	8.63	140	0.5	0.7	12	411	< 1	12	3	229	2.26	10	19	35	< 0.5	< 2	1.52	9
1228031179	16.1	12.1	-4.05	19.6	0.617	8.60	199	0.3	< 0.5	61	340	1	6	6	122	1.66	6	25	44	< 0.5	3	2.08	7
1228031010	27.4	33.0	5.66	31.9	1.04	8.65	108	0.8	< 0.5	25	755	1	15	3	127	2.73	13	14	33	< 0.5	< 2	2.07	12
1228031091	27.7	20.6	-7.14	30.3	0.678	8.82	93	< 0.2	< 0.5	11	185	2	10	< 2	56	1.43	3	11	37	< 0.5	< 2	1.14	4
1228031016	22.9	33.0	10.1	26.3	1.25	8.86	63	0.5	< 0.5	26	819	< 1	18	9	90	2.11	21	< 10	43	< 0.5	2	1.95	11
1228031025	20.6	20.4	-0.180	23.3	0.878	8.83	51	0.3	< 0.5	17	216	1	11	4	65	1.70	7	< 10	36	< 0.5	4	1.12	9
12270111015	70.8	18.1	-52.7	77.5	0.234	8.68	91	0.8	1.2	159	487	5	14	3	431	1.72	10	< 10	15	< 0.5	3	1.28	11
1228031021	30.2	18.1	-12.1	33.1	0.547	8.68	106	0.7	< 0.5	35	510	2	8	< 2	88	2.63	12	15	36	< 0.5	< 2	1.51	10
1227011052	81.3	11.6	-69.7	87.0	0.133	8.56	135	0.6	< 0.5	139	465	1	8	8	61	2.31	15	< 10	13	< 0.5	3	1.16	8
1227011100	116	7.85	-108	121	0.0651	8.31	260	3.1	< 0.5	4	298	3	20	8	60	1.24	23	< 10	< 10	< 0.5	20	0.50	17
1227011072	94.3	12.0	-82.3	101	0.119	8.43	976	0.9	< 0.5	288	480	< 1	9	7	62	2.01	13	< 10	13	< 0.5	5	1.02	10
1228031035	27.2	9.99	-17.2	26.6	0.375	8.78	29	< 0.2	< 0.5	24	209	2	9	< 2	47	2.57	< 2	10	37	< 0.5	6	1.36	7
1228031140	36.7	20.9	-15.8	40.1	0.520	8.57	211	0.5	0.7	47	377	2	15	7	186	1.75	11	15	28	< 0.5	< 2	1.20	11
1229053034	33.0	15.8	-17.2	36.4	0.435	8.85	87	0.7	< 0.5	27	387	< 1	14	2	158	1.58	12	< 10	25	< 0.5	4	0.87	10
1228031031	12.2	6.24	-5.95	11.9	0.523	8.87	59	< 0.2	< 0.5	32	208	2	9	< 2	63	2.37	3	< 10	34	< 0.5	3	0.91	8
v845146							933	2.5	< 0.5	61	412	11	16	6	62	1.50	< 2	< 10	82	< 0.5	< 2	1.34	18

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1234005450	115	2.38	< 10	< 1	0.43	22	1.16	0.141	0.057	0.51	< 2	2	90	0.09	2	< 2	< 10	32	< 10	4	19	0.18	0.49
1228031131	172	2.06	< 10	< 1	0.21	14	0.94	0.105	0.039	0.92	< 2	< 1	60	< 0.01	< 1	< 2	< 10	10	< 10	2	6	0.24	0.84
1228031097	109	2.29	< 10	< 1	0.24	17	1.11	0.108	0.042	1.54	2	1	65	< 0.01	4	< 2	< 10	11	< 10	2	7	0.48	1.41
1228031179	90	1.72	< 10	< 1	0.28	12	0.72	0.068	0.036	0.67	< 2	< 1	58	< 0.01	< 1	< 2	< 10	10	< 10	2	5	0.55	0.64
1228031010	113	2.92	< 10	< 1	0.19	22	1.45	0.147	0.054	1.09	< 2	3	70	< 0.01	< 1	< 2	< 10	29	< 10	4	6	0.44	1.04
1228031091	179	1.56	< 10	< 1	0.20	14	0.82	0.114	0.036	1.02	< 2	< 1	58	< 0.01	2	< 2	< 10	10	< 10	2	7	0.29	0.99
1228031016	153	2.39	< 10	< 1	0.26	27	1.38	0.123	0.061	0.89	< 2	2	49	0.03	< 1	< 2	< 10	27	< 10	4	11	0.39	0.86
1228031025	164	1.67	< 10	< 1	0.21	16	1.01	0.103	0.040	0.82	< 2	1	52	< 0.01	< 1	< 2	< 10	12	< 10	2	5	0.23	0.76
12270111015	213	2.69	< 10	< 1	0.19	14	1.08	0.142	0.043	2.57	2	1	77	0.01	2	< 2	< 10	13	< 10	3	20	0.27	2.53
1228031021	56	2.05	< 10	< 1	0.23	16	1.14	0.162	0.041	1.13	< 2	< 1	77	< 0.01	< 1	< 2	< 10	11	< 10	2	9	0.21	1.08
1227011052	92	3.02	< 10	< 1	0.18	15	1.15	0.098	0.043	2.78	2	< 1	64	< 0.01	< 1	< 2	< 10	8	< 10	2	18	0.18	2.84
1227011100	129	3.71	< 10	< 1	0.25	15	0.92	0.042	0.036	4.16	3	< 1	19	< 0.01	8	3	< 10	5	< 10	2	23	0.22	3.94
1227011072	103	3.62	< 10	< 1	0.24	17	1.13	0.061	0.041	3.33	< 2	< 1	44	< 0.01	< 1	< 2	< 10	9	< 10	2	19	0.21	3.29
1228031035	111	1.64	< 10	< 1	0.16	17	1.01	0.180	0.044	0.95	< 2	1	145	< 0.01	< 1	< 2	< 10	11	< 10	2	3	0.13	0.87
1228031140	184	2.74	< 10	< 1	0.23	17	0.84	0.071	0.041	1.44	2	2	51	< 0.01	< 1	< 2	< 10	18	< 10	3	10	0.28	1.31
1229053034	181	2.31	< 10	< 1	0.22	13	1.05	0.070	0.039	1.31	< 2	< 1	49	< 0.01	< 1	< 2	< 10	11	< 10	2	4	0.37	1.19
1228031031	121	1.45	< 10	< 1	0.16	17	0.98	0.153	0.040	0.45	< 2	< 1	79	< 0.01	< 1	< 2	< 10	12	< 10	2	5	0.11	0.39
v845146	12	3.93	< 10	< 1	0.31	12	0.70	0.189	0.069	0.07	2	6	34	0.41	7	< 2	< 10	120	< 10	17	11	0.03	0.08

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas								0.4	< 0.5	68	1050	1	22	94	130	6.30	244	< 10	713	0.9	< 2	0.13	12
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.3	< 0.5	70	1090	1	23	103	134	6.44	228	< 10	728	0.9	< 2	0.14	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
BaSO4 Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
OREAS 98 (Aqua Regia) Meas								38.4		> 10000				255	1180							< 2	102
OREAS 98 (Aqua Regia) Cert								42.8		14700 0.0				343	1302							92.8	111
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
NBM-1 (slight fzz) Meas		43.7				8.12																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.1																					
NBM-1 (slight fzz) Cert		46.6																					
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2100	752	< 1	31	57	264	2.60	3		85	0.8	4	0.43	17
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								1.0	< 0.5	2270	788	< 1	36	59	286	2.65	2		76	0.8	< 2	0.43	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 923 (AQUA REGIA) Meas								1.5	< 0.5	4170	862	< 1	30	81	343	2.62	8		68	0.7	14	0.43	20
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.8	< 0.5	4410	885	< 1	33	81	350	2.66	6		58	0.7	20	0.43	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 96 (Aqua Regia) Meas								10.6		> 10000				86	429							32	46
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448							27.9	49.2
Oreas 96 (Aqua Regia) Meas								11.3		> 10000				92	445							25	50
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448							27.9	49.2
OREAS 218 Meas								541															
OREAS 218 Cert								531															
OREAS 218 Meas								527															
OREAS 218 Cert								531															
OREAS 218 Meas								538															
OREAS 218 Cert								531															
Oreas 621 (Aqua Regia) Meas								65.2	260	3290	514	13	22	> 5000	> 10000	1.53	73			0.6	6	1.62	28
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								67.4	276	3520	541	12	25	> 5000	> 10000	1.53	74			0.6	5	1.55	31
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 45f (Aqua Regia) Meas										329	175	< 1	223	12	28	6.77			130	1.0	< 2	0.07	37
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										358	172	< 1	228	16	28	6.65			136	1.1	< 2	0.07	38
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 238 (Fire Assay) Meas								3080															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								2970															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3010															
OREAS 238 (Fire Assay) Cert								3030															
GS316-3 Meas																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
1228031330 Orig								0.5	1.0	203	326	2	9	5	274	2.11	18	10	25	< 0.5	2	0.96	17
1228031330 Dup								0.6	1.2	203	320	2	9	7	269	2.12	19	10	26	< 0.5	2	0.97	19
1234005426 Orig							10																
1234005426 Dup							9																
1228031167 Orig							142																
1228031167 Dup							140																
1228031209 Orig								1.0	3.2	34	379	2	11	460	851	1.43	11	< 10	40	< 0.5	3	1.80	9
1228031209 Dup								1.2	3.8	39	420	2	12	514	936	1.57	12	< 10	42	< 0.5	4	1.98	10
1227010006 Orig							93																
1227010006 Dup							93																
1227010003 Orig																							
1227010003 Dup																							
1227010046 Orig								1.0	1.3	99	416	< 1	8	4	419	1.65	13	< 10	19	< 0.5	5	1.19	10
1227010046 Dup								1.3	1.3	103	430	1	8	4	424	1.72	13	< 10	20	< 0.5	8	1.24	10
1227010163 Orig																							
1227010163 Dup																							
1227011113 Orig							255																
1227011113 Dup							300																
1227012361 Orig	45.2	5.87	-39.3	52.4	0.112																		
1227012361 Dup	45.2	5.87	-39.3	52.4	0.112																		
1228031136 Orig								0.4	0.5	119	309	3	16	6	96	1.90	9	18	44	< 0.5	< 2	1.65	8
1228031136 Dup								0.4	< 0.5	98	299	2	11	4	88	1.89	7	18	40	< 0.5	< 2	1.62	6
1234005450 Orig																							
1234005450 Dup																							
1228031179 Orig							203																
1228031179 Dup							194																
1227011052 Orig																							
1227011052 Dup																							
1228031035 Orig							30																
1228031035 Dup							28																
1229053034 Orig						8.85																	
1229053034 Dup						8.85																	
1228031031 Orig	12.2	6.24	-5.95	11.9	0.523																		
1228031031 Dup	12.2	6.24	-5.95	11.9	0.522																		
v845146 Orig																							
v845146 Dup																							
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank								< 0.2	< 0.5	1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
GXR-6 Meas	83	5.47	20	< 1	1.15	11	0.40	0.112	0.035	0.01	5	21	31		< 1	< 2	< 10	170	< 10	5	11			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
GXR-6 Meas	86	5.66	20	< 1	1.14	10	0.40	0.113	0.035	0.01	3	21	31		< 1	< 2	< 10	174	< 10	5	7			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
BaSO4 Meas																							14.2	
BaSO4 Cert																								14.0
BaSO4 Meas																								14.3
BaSO4 Cert																								14.0
BaSO4 Meas																								14.3
BaSO4 Cert																								14.0
BaSO4 Meas																								14.4
BaSO4 Cert																								14.0
SGR-1b Meas																								27.7
SGR-1b Cert																								28
SGR-1b Meas																								27.3
SGR-1b Cert																								28
SGR-1b Meas																								27.8
SGR-1b Cert																								28
SGR-1b Meas																								27.7
SGR-1b Cert																								28
OREAS 98 (Aqua Regia) Meas											18													
OREAS 98 (Aqua Regia) Cert											14.7													
GS311-4 Meas																								1.12
GS311-4 Cert																								1.11
GS311-4 Meas																								1.11
GS311-4 Cert																								1.11
GS311-4 Meas																								1.13
GS311-4 Cert																								1.11
GS311-4 Meas																								1.11
GS311-4 Cert																								1.11
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
OREAS 922 (AQUA REGIA) Meas	47	4.89	< 10		0.53	39	1.31	0.031	0.061	0.36	< 2	4	16			< 2	< 10	37	< 10	22	26			
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3			
OREAS 922 (AQUA REGIA) Meas	50	5.26	< 10		0.49	40	1.41	0.031	0.064	0.39	3	4	17			< 2	< 10	37	< 10	22	19			
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3			
OREAS 923 (AQUA REGIA) Meas	44	5.69	< 10		0.45	37	1.42		0.058	0.66	4	4	15			< 2	< 10	36	< 10	20	31			

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	45	6.02	< 10		0.42	37	1.50		0.062	0.70	3	4	15			< 2	< 10	36	< 10	20	29		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 96 (Aqua Regia) Meas										3.64	7												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										4.20	8												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
Oreas 621 (Aqua Regia) Meas	31	3.07	10	3	0.37	20	0.41	0.150	0.032	4.33	107	2	19			< 2	< 10	13	< 10	7	69		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	34	3.25	< 10	4	0.36	19	0.43	0.150	0.033	4.33	101	2	17			< 2	< 10	13	< 10	8	65		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 45f (Aqua Regia) Meas	358	13.3	20	< 1	0.11	12	0.18	0.045	0.021	0.02		28	15	0.14		< 2	< 10	205		5	23		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 45f (Aqua Regia) Meas	377	14.1	20	< 1	0.11	11	0.18	0.046	0.021	0.02		29	15	0.10		< 2	< 10	209		6	13		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.04	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.04	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.04	0.34
GS316-3 Cert																						0.0600	0.340

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GS316-3 Meas																						0.05	0.34
GS316-3 Cert																						0.0600	0.340
1228031330 Orig	113	3.36	< 10	< 1	0.23	15	0.96	0.049	0.038	1.51	< 2	< 1	53	< 0.01	< 1	< 2	< 10	14	< 10	2	8		
1228031330 Dup	110	3.34	< 10	< 1	0.24	14	0.95	0.050	0.038	1.60	3	< 1	54	< 0.01	2	< 2	< 10	13	< 10	2	8		
1234005426 Orig																						0.33	0.32
1234005426 Dup																						0.33	0.32
1228031167 Orig																						0.29	1.15
1228031167 Dup																						0.29	1.16
1228031209 Orig	132	2.23	< 10	< 1	0.29	15	0.96	0.029	0.041	1.09	2	< 1	28	< 0.01	4	< 2	< 10	10	< 10	1	5		
1228031209 Dup	145	2.48	< 10	< 1	0.31	17	1.07	0.030	0.046	1.21	< 2	< 1	31	< 0.01	2	< 2	< 10	11	< 10	1	6		
1227010006 Orig																							
1227010006 Dup																							
1227010003 Orig																						0.29	2.10
1227010003 Dup																						0.30	2.18
1227010046 Orig	123	2.55	< 10	< 1	0.16	20	1.13	0.139	0.048	2.33	2	< 1	53	< 0.01	4	< 2	< 10	9	< 10	3	14		
1227010046 Dup	128	2.67	< 10	< 1	0.17	20	1.17	0.146	0.048	2.43	< 2	< 1	56	< 0.01	2	< 2	< 10	9	< 10	3	17		
1227010163 Orig																						0.16	1.50
1227010163 Dup																						0.15	1.46
1227011113 Orig																							
1227011113 Dup																							
1227012361 Orig																							
1227012361 Dup																							
1228031136 Orig	183	2.13	< 10	< 1	0.26	18	0.94	0.141	0.043	1.10	< 2	1	75	< 0.01	< 1	< 2	< 10	13	< 10	2	7		
1228031136 Dup	177	2.05	< 10	< 1	0.26	18	0.92	0.140	0.043	1.07	< 2	1	75	< 0.01	3	< 2	< 10	13	< 10	2	5		
1234005450 Orig																						0.18	0.49
1234005450 Dup																						0.18	0.48
1228031179 Orig																							
1228031179 Dup																							
1227011052 Orig																						0.18	2.81
1227011052 Dup																						0.18	2.86
1228031035 Orig																							
1228031035 Dup																							
1229053034 Orig																							
1229053034 Dup																							
1228031031 Orig																							
1228031031 Dup																							
v845146 Orig																						0.03	0.08
v845146 Dup																						0.03	0.08
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		



Report No.: A20-00327
Report Date: 05-Feb-20
Date Submitted: 09-Jan-20
Your Reference: 2019 December Check Assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

140 Pulp samples were submitted for analysis.

Table with 3 columns: Analytical package(s) requested, Testing Date, and details. Rows include 1A2-50-Tbay, 1E3-Tbay NewGold, QOP AA-Au (Au - Fire Assay AA), and QOP AquaGeo (Aqua Regia ICPOES).

REPORT A20-00327

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Handwritten signature of Emmanuel Esemé

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Report No.: A20-00327
Report Date: 05-Feb-20
Date Submitted: 09-Jan-20
Your Reference: 2019 December Check Assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

140 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek	Acid Base Accounting	2020-01-28 21:12:12
4F-C, S	Infrared	2020-01-28 21:15:24

REPORT A20-00327

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:



Emmanuel Esemé, Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
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E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1229051194	122	2.01	< 10	< 1	0.27	19	0.61	0.060	0.039	0.70	< 2	1	32	0.07	< 1	< 2	< 10	13	< 10	2	14	0.57	0.66
1227004047	88	2.41	< 10	< 1	0.19	18	0.66	0.181	0.045	1.06	< 2	1	159	0.02	< 1	< 2	< 10	11	< 10	3	9	0.27	1.00
1229051122	104	4.12	< 10	2	0.05	< 10	1.71	0.460	0.020	0.14	< 2	6	57	0.20	1	< 2	< 10	130	< 10	4	3	0.13	0.14
1227006045	236	2.63	< 10	< 1	0.26	13	0.77	0.069	0.040	2.22	< 2	1	28	0.06	< 1	< 2	< 10	17	< 10	3	20	0.20	2.12
1228027308	75	2.43	< 10	< 1	0.15	14	1.17	0.052	0.040	1.43	< 2	< 1	71	< 0.01	< 1	< 2	< 10	10	< 10	2	11	0.13	1.45
1227003029	262	2.32	< 10	< 1	0.26	12	0.70	0.106	0.036	1.66	< 2	1	54	0.06	< 1	< 2	< 10	17	< 10	3	17	0.23	1.62
1227004062	89	2.55	< 10	< 1	0.10	26	1.03	0.106	0.058	2.59	< 2	1	66	< 0.01	< 1	< 2	< 10	13	< 10	2	16	0.18	2.56
1234003105	149	2.43	< 10	< 1	0.22	20	0.92	0.075	0.057	0.38	< 2	3	45	0.14	< 1	< 2	< 10	41	< 10	4	10	0.26	0.36
1234003137	96	2.18	< 10	< 1	0.20	14	0.82	0.072	0.047	0.48	2	3	45	0.10	1	< 2	< 10	36	< 10	4	9	0.20	0.44
1229051224	100	4.35	< 10	< 1	0.05	< 10	1.81	0.462	0.020	0.08	< 2	7	66	0.18	< 1	< 2	< 10	130	< 10	5	3	0.11	0.09
1229051152	99	4.14	< 10	< 1	0.06	< 10	1.70	0.583	0.020	0.12	3	7	73	0.13	< 1	< 2	< 10	121	< 10	4	2	0.08	0.12
1227003023	202	2.56	< 10	< 1	0.23	14	0.74	0.177	0.041	1.85	< 2	1	80	0.03	< 1	< 2	< 10	15	< 10	3	17	0.16	1.77
1228027263	128	4.23	< 10	2	0.17	< 10	2.24	0.373	0.021	0.22	< 2	10	75	0.17	< 1	< 2	< 10	115	< 10	4	4	0.26	0.23
1227004217	76	2.38	< 10	< 1	0.20	13	0.71	0.060	0.044	2.30	< 2	< 1	38	< 0.01	1	< 2	< 10	7	< 10	2	13	0.35	2.22
1227004259	202	2.67	< 10	< 1	0.25	19	0.93	0.088	0.052	2.74	3	< 1	48	< 0.01	4	< 2	< 10	9	< 10	3	8	1.19	2.56
1228027229	127	4.64	< 10	2	0.06	< 10	2.21	0.528	0.020	0.10	< 2	9	78	0.21	< 1	2	< 10	135	< 10	5	4	0.10	0.03
1228027288	107	4.39	< 10	< 1	0.12	< 10	2.13	0.486	0.022	0.22	< 2	9	79	0.20	< 1	< 2	< 10	126	< 10	5	5	0.19	0.24
1228027150	107	2.04	< 10	< 1	0.25	15	0.92	0.058	0.045	1.02	< 2	1	44	0.02	< 1	< 2	< 10	12	< 10	2	10	0.30	0.96
1229051229	85	2.87	< 10	< 1	0.33	15	1.06	0.058	0.045	3.03	< 2	1	28	< 0.01	< 1	< 2	< 10	11	< 10	2	18	0.56	3.01
V845135	13	3.40	< 10	< 1	0.22	11	0.53	0.256	0.058	0.06	< 2	4	41	0.47	6	< 2	< 10	98	< 10	17	22	0.02	0.07
1228027044	116	2.07	< 10	< 1	0.29	17	0.86	0.118	0.044	1.59	< 2	< 1	72	< 0.01	< 1	< 2	< 10	8	< 10	3	11	0.93	1.57
1227004228	159	1.17	< 10	< 1	0.19	16	0.15	0.138	0.044	1.08	< 2	< 1	135	< 0.01	< 1	< 2	< 10	7	< 10	2	12	0.18	1.05
1229051165	93	1.53	< 10	< 1	0.26	17	0.61	0.155	0.040	0.56	< 2	< 1	71	0.05	2	< 2	< 10	13	< 10	2	10	0.41	0.56
1227004291	77	2.01	< 10	< 1	0.31	15	0.84	0.103	0.043	1.92	< 2	< 1	50	0.02	5	< 2	< 10	9	< 10	2	22	0.24	1.93
1228027116	119	4.15	< 10	2	0.09	< 10	1.75	0.506	0.022	0.16	< 2	6	66	0.20	< 1	< 2	< 10	125	< 10	4	4	0.12	0.18
1229051133	69	1.58	< 10	< 1	0.43	11	0.33	0.035	0.041	1.74	3	< 1	35	< 0.01	< 1	< 2	< 10	5	< 10	2	11	0.77	1.65
1228027035	151	2.05	< 10	< 1	0.27	17	0.85	0.189	0.043	1.32	2	1	92	< 0.01	1	< 2	< 10	12	< 10	3	12	0.77	1.33
1227004200	149	2.18	< 10	< 1	0.23	15	1.03	0.141	0.041	2.22	3	< 1	86	0.04	< 1	< 2	< 10	7	< 10	3	19	0.54	2.18
1230095040	83	2.35	< 10	< 1	0.23	14	0.91	0.075	0.041	1.42	3	1	34	0.01	< 1	< 2	< 10	16	< 10	3	18	0.07	1.38
1228027038	63	2.30	< 10	< 1	0.33	16	1.02	0.094	0.042	2.12	3	< 1	40	0.02	2	< 2	< 10	11	< 10	2	18	0.61	2.19
1228027157	114	4.23	< 10	1	0.06	< 10	1.95	0.442	0.022	0.23	< 2	7	73	0.21	1	< 2	< 10	122	< 10	4	6	0.14	0.24
1227005026	236	2.63	< 10	< 1	0.12	17	1.21	0.109	0.044	2.73	3	1	54	< 0.01	4	< 2	< 10	12	< 10	3	21	0.48	2.76
1228027240	108	2.97	< 10	< 1	0.29	19	0.86	0.028	0.055	2.85	< 2	< 1	31	< 0.01	1	< 2	< 10	8	< 10	3	12	1.02	2.84
1228027198	77	2.35	< 10	< 1	0.27	15	0.90	0.051	0.045	2.06	2	< 1	36	< 0.01	2	< 2	< 10	8	< 10	3	10	0.81	1.98
1227004271	110	2.07	< 10	< 1	0.22	13	0.66	0.042	0.042	1.98	< 2	< 1	28	< 0.01	2	2	< 10	6	< 10	2	9	0.80	1.97
1227004317	75	2.08	< 10	< 1	0.29	16	0.49	0.079	0.046	2.30	< 2	< 1	56	< 0.01	< 1	< 2	< 10	5	< 10	2	16	0.72	2.24
1227005041	146	2.39	< 10	< 1	0.18	20	1.07	0.149	0.054	2.44	< 2	1	75	< 0.01	3	< 2	< 10	12	< 10	3	21	0.40	2.45
1227005100	162	2.23	< 10	< 1	0.20	20	1.34	0.121	0.048	1.46	< 2	1	59	< 0.01	1	< 2	< 10	14	< 10	3	12	0.63	1.54

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas								0.4	< 0.5	68	1050	1	22	94	130	6.30	244	< 10	713	0.9	< 2	0.13	12
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.3	< 0.5	70	1090	1	23	103	134	6.44	228	< 10	728	0.9	< 2	0.14	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
BaSO4 Meas																							
BaSO4 Cert																							
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SGR-1b Cert																							
OREAS 98 (Aqua Regia) Meas								38.4		> 10000				255	1180						< 2		102
OREAS 98 (Aqua Regia) Cert								42.8		14700 0.0				343	1302						92.8		111
GS311-4 Meas																							
GS311-4 Cert																							
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GS311-4 Cert																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS311-4 Cert																							
NBM-1 (slight fzz) Meas		43.1				8.21																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.2				8.47																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.0																					
NBM-1 (slight fzz) Cert		46.6																					
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2100	752	< 1	31	57	264	2.60	3		85	0.8	4	0.43	17
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								1.0	< 0.5	2270	788	< 1	36	59	286	2.65	2		76	0.8	< 2	0.43	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								1.5	< 0.5	4170	862	< 1	30	81	343	2.62	8		68	0.7	14	0.43	20
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.8	< 0.5	4410	885	< 1	33	81	350	2.66	6		58	0.7	20	0.43	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 96 (Aqua Regia) Meas								10.6		> 10000				86	429							32	46
Oreas 96 (Aqua Regia) Cert								11.50		39100. 00				100	448							27.9	49.2
Oreas 96 (Aqua Regia) Meas								11.3		> 10000				92	445							25	50
Oreas 96 (Aqua Regia) Cert								11.50		39100. 00				100	448							27.9	49.2
OREAS 218 Meas								542															
OREAS 218 Cert								531															
OREAS 218 Meas								508															
OREAS 218 Cert								531															
OREAS 218 Meas								528															
OREAS 218 Cert								531															
OREAS 218 Meas								531															
OREAS 218 Cert								531															
OREAS 218 Meas								541															
OREAS 218 Cert								531															

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Oreas 621 (Aqua Regia) Meas								65.2	260	3290	514	13	22	> 5000	> 10000	1.53	73			0.6	6	1.62	28
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								67.4	276	3520	541	12	25	> 5000	> 10000	1.53	74			0.6	5	1.55	31
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 45f (Aqua Regia) Meas										329	175	< 1	223	12	28	6.77			130	1.0	< 2	0.07	37
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										358	172	< 1	228	16	28	6.65			136	1.1	< 2	0.07	38
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 238 (Fire Assay) Meas							3150																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3080																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							2960																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							2990																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3080																
OREAS 238 (Fire Assay) Cert							3030																
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
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GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
1228025003 Orig								0.5	3.0	14	663	< 1	12	15	868	1.73	9	< 10	29	< 0.5	< 2	1.83	9
1228025003 Dup								0.5	2.7	13	672	< 1	11	19	881	1.70	9	< 10	26	< 0.5	2	1.84	8
1229050184 Orig							157																

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1229050184 Dup							154																
1227002092 Orig								1.2	< 0.5	135	428	4	10	6	76	2.17	14	< 10	26	< 0.5	< 2	1.00	8
1227002092 Dup								1.0	< 0.5	134	431	3	10	7	76	2.18	9	< 10	25	< 0.5	< 2	1.01	8
1228026226 Orig							592																
1228026226 Dup							614																
V845130 Orig																							
V845130 Dup																							
1229050279 Orig								2.2	< 0.5	35	1090	2	26	30	148	1.77	74	< 10	29	< 0.5	< 2	1.51	18
1229050279 Dup								2.3	0.5	36	1090	2	28	31	148	1.82	76	< 10	29	< 0.5	< 2	1.54	16
1229050250 Orig							48																
1229050250 Dup							49																
1228026105 Orig																							
1228026105 Dup																							
1227006089 Orig																							
1227006089 Dup																							
1227006148 Orig							53	0.2	0.7	144	523	2	30	< 2	152	2.92	4	< 10	36	< 0.5	< 2	2.57	20
1227006148 Dup							46	0.3	< 0.5	144	520	2	30	< 2	157	2.91	< 2	< 10	35	< 0.5	< 2	2.56	19
1227006202 Orig	58.4	12.0	-46.4	63.1	0.190																		
1227006202 Dup	58.4	12.0	-46.4	63.1	0.190																		
1227003063 Orig																							
1227003063 Dup																							
1227003091 Orig							124																
1227003091 Dup							146																
1229050006 Orig								6.0	< 0.5	48	1170	< 1	19	37	140	1.51	69	< 10	18	< 0.5	< 2	1.83	12
1229050006 Dup								6.1	0.6	47	1200	< 1	19	37	139	1.58	69	< 10	17	< 0.5	< 2	1.78	10
1228025403 Orig																							
1228025403 Dup																							
1229050167 Orig							12																
1229050167 Dup							10																
1228025030 Orig						8.89																	
1228025030 Dup						8.77																	
1228025040 Orig								1.7	1.5	83	488	2	15	5	462	1.63	19	< 10	21	< 0.5	< 2	1.22	10
1228025040 Dup								1.7	1.5	79	489	2	16	7	473	1.61	18	< 10	18	< 0.5	3	1.22	11
1229050145 Orig							31																
1229050145 Dup							23																
1229050064 Orig																							
1229050064 Dup																							
1228023238 Orig								0.7	< 0.5	119	402	8	14	4	89	3.22	9	< 10	23	< 0.5	3	1.32	8
1228023238 Dup								0.7	< 0.5	113	408	8	13	< 2	90	3.24	6	< 10	25	< 0.5	3	1.34	10
1228023249 Orig							23																
1228023249 Dup							21																
1228025504 Orig																							
1228025504 Dup																							
1228027170 Orig	25.3	21.2	-4.10	29.7	0.714																		
1228027170 Dup	25.3	21.2	-4.08	29.7	0.714																		
1227004186 Orig							628																
1227004186 Dup							630																
1229051194 Orig								< 0.2	0.9	27	652	< 1	8	7	227	1.16	10	< 10	39	< 0.5	< 2	2.08	9
1229051194 Dup								0.2	0.8	29	654	< 1	8	7	216	1.20	12	< 10	40	< 0.5	< 2	2.10	10

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1227004047 Orig																							
1227004047 Dup																							
1228027263 Orig								18															
1228027263 Dup								22															
1228027044 Orig								1.8	< 0.5	28	1200	2	17	10	89	1.53	67	< 10	36	< 0.5	3	2.96	11
1228027044 Dup								1.8	< 0.5	29	1200	2	18	12	90	1.53	68	< 10	37	< 0.5	< 2	2.97	12
1229051165 Orig								122															
1229051165 Dup								129															
1228027240 Orig								202															
1228027240 Dup								194															
1228027198 Orig																							
1228027198 Dup																							
1227004317 Orig								1.2	< 0.5	36	625	< 1	10	16	150	1.03	24	< 10	37	< 0.5	< 2	2.12	10
1227004317 Dup								1.1	< 0.5	36	635	< 1	11	15	153	1.05	21	< 10	35	< 0.5	< 2	2.15	9
1227005041 Orig								8.98															
1227005041 Dup								8.98															
1227005100 Orig	41.8	47.5	5.69	47.2	1.01																		
1227005100 Dup	41.8	47.4	5.65	47.2	1.01																		
Method Blank								< 5															
Method Blank								< 5															
Method Blank								< 5															
Method Blank								5															
Method Blank								6															
Method Blank								< 5															
Method Blank								< 5															
Method Blank								< 5															
Method Blank								< 5															
Method Blank								< 0.2	< 0.5	1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
GXR-6 Meas	83	5.47	20	< 1	1.15	11	0.40	0.112	0.035	0.01	5	21	31	< 1	< 2	< 10	170	< 10	5	11				
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0	0.0180	2.20	1.54	186	1.90	14.0	110				
GXR-6 Meas	86	5.66	20	< 1	1.14	10	0.40	0.113	0.035	0.01	3	21	31	< 1	< 2	< 10	174	< 10	5	7				
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0	0.0180	2.20	1.54	186	1.90	14.0	110				
BaSO4 Meas																							14.1	
BaSO4 Cert																							14.0	
BaSO4 Meas																							13.8	
BaSO4 Cert																							14.0	
BaSO4 Meas																							14.1	
BaSO4 Cert																							14.0	
BaSO4 Meas																							13.8	
BaSO4 Cert																							14.0	
BaSO4 Meas																							14.0	
BaSO4 Cert																							14.0	
BaSO4 Meas																							13.9	
BaSO4 Cert																							14.0	
BaSO4 Meas																							14.0	
BaSO4 Cert																							14.0	
SGR-1b Meas																							27.6	1.56
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.7	1.51
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.9	1.51
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.6	1.52
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.8	1.54
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.7	1.56
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.9	1.55
SGR-1b Cert																							28	1.53
OREAS 98 (Aqua Regia) Meas															18									
OREAS 98 (Aqua Regia) Cert															14.7									
GS311-4 Meas																							1.10	0.52
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.12	0.57
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.11	0.55
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.11	0.55
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.11	0.55
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.10	0.55
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.10	0.55
GS311-4 Cert																							1.11	0.54
NBM-1 (slight fzz) Meas																								

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	47	4.89	< 10		0.53	39	1.31	0.031	0.061	0.36	< 2	4	16			< 2	< 10	37	< 10	22	26		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	50	5.26	< 10		0.49	40	1.41	0.031	0.064	0.39	3	4	17			< 2	< 10	37	< 10	22	19		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 923 (AQUA REGIA) Meas	44	5.69	< 10		0.45	37	1.42		0.058	0.66	4	4	15			< 2	< 10	36	< 10	20	31		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	45	6.02	< 10		0.42	37	1.50		0.062	0.70	3	4	15			< 2	< 10	36	< 10	20	29		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 96 (Aqua Regia) Meas										3.64	7												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										4.20	8												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
Oreas 621 (Aqua Regia) Meas	31	3.07	10	3	0.37	20	0.41	0.150	0.032	4.33	107	2	19			< 2	< 10	13	< 10	7	69		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	34	3.25	< 10	4	0.36	19	0.43	0.150	0.033	4.33	101	2	17			< 2	< 10	13	< 10	8	65		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1229050279 Dup	67	2.47	< 10	< 1	0.29	20	0.98	0.107	0.053	1.88	< 2	< 1	56	0.02	< 1	< 2	< 10	12	< 10	3	12		
1229050250 Orig																							
1229050250 Dup																							
1228026105 Orig																						0.46	1.48
1228026105 Dup																						0.45	1.48
1227006089 Orig																						0.10	0.85
1227006089 Dup																						0.10	0.82
1227006148 Orig	154	3.22	< 10	< 1	0.11	< 10	1.43	0.192	0.030	0.95	< 2	4	47	0.15	< 1	< 2	< 10	67	< 10	3	9		
1227006148 Dup	160	3.15	< 10	< 1	0.11	< 10	1.41	0.187	0.030	0.92	< 2	4	47	0.14	< 1	< 2	< 10	67	< 10	3	9		
1227006202 Orig																							
1227006202 Dup																							
1227003063 Orig																						0.17	1.62
1227003063 Dup																						0.17	1.58
1227003091 Orig																							
1227003091 Dup																							
1229050006 Orig	93	2.40	< 10	< 1	0.27	20	1.08	0.127	0.054	2.49	3	1	59	< 0.01	< 1	< 2	< 10	11	< 10	3	7		
1229050006 Dup	95	2.46	< 10	< 1	0.29	20	1.12	0.133	0.055	2.42	3	1	59	< 0.01	< 1	< 2	< 10	12	< 10	3	8		
1228025403 Orig																						0.95	0.08
1228025403 Dup																						0.95	0.07
1229050167 Orig																							
1229050167 Dup																							
1228025030 Orig																						0.29	0.61
1228025030 Dup																						0.29	0.59
1228025040 Orig	152	2.52	< 10	< 1	0.20	20	0.82	0.132	0.051	1.70	< 2	2	65	0.02	2	< 2	< 10	16	< 10	2	11		
1228025040 Dup	154	2.56	< 10	< 1	0.19	20	0.83	0.128	0.050	1.71	2	2	64	0.02	< 1	< 2	< 10	16	< 10	2	11		
1229050145 Orig																							
1229050145 Dup																							
1229050064 Orig																						0.36	0.64
1229050064 Dup																						0.36	0.64
1228023238 Orig	219	3.60	< 10	2	0.25	12	1.78	0.169	0.035	1.86	2	1	129	< 0.01	< 1	< 2	< 10	14	< 10	2	23		
1228023238 Dup	218	3.62	< 10	< 1	0.26	12	1.79	0.171	0.035	1.85	3	1	130	< 0.01	< 1	< 2	< 10	14	< 10	2	24		
1228023249 Orig																							
1228023249 Dup																							
1228025504 Orig																						0.18	1.04
1228025504 Dup																						0.18	1.08
1228027170 Orig																							
1228027170 Dup																							
1227004186 Orig																							
1227004186 Dup																							
1229051194 Orig	122	2.00	< 10	< 1	0.27	18	0.61	0.059	0.039	0.69	< 2	1	31	0.07	4	< 2	< 10	13	< 10	2	14		
1229051194 Dup	122	2.03	< 10	< 1	0.28	19	0.62	0.060	0.039	0.71	< 2	1	32	0.07	< 1	< 2	< 10	14	< 10	3	15		
1227004047 Orig																						0.27	1.01
1227004047 Dup																						0.27	0.99
1228027263 Orig																						0.26	0.23
1228027263 Dup																						0.26	0.23
1228027044 Orig	115	2.06	< 10	< 1	0.29	17	0.86	0.118	0.044	1.58	< 2	< 1	72	< 0.01	< 1	3	< 10	9	< 10	3	10		
1228027044 Dup	117	2.08	< 10	< 1	0.29	17	0.86	0.118	0.044	1.60	3	< 1	72	< 0.01	< 1	< 2	< 10	8	< 10	3	12		
1229051165 Orig																						0.41	0.56
1229051165 Dup																						0.41	0.56
1228027240 Orig																							
1228027240 Dup																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1228027198 Orig																						0.80	2.00
1228027198 Dup																						0.81	1.96
1227004317 Orig	73	2.07	< 10	< 1	0.29	16	0.48	0.079	0.046	2.31	< 2	< 1	56	< 0.01	< 1	< 2	< 10	5	< 10	2	16		
1227004317 Dup	77	2.09	< 10	< 1	0.29	16	0.50	0.079	0.046	2.29	3	< 1	57	< 0.01	2	3	< 10	5	< 10	2	15		
1227005041 Orig																							
1227005041 Dup																							
1227005100 Orig																							
1227005100 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		



Report No.: A20-00328
 Report Date: 13-Feb-20
 Date Submitted: 09-Jan-20
 Your Reference: 2019 December Check Assays

New Gold Inc.
 1800-Two Bentall Centre
 555 Burrard Street, Box 212
 Vancouver BC V7X 1M9
 Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

141 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek	Acid Base Accounting	2020-02-05 20:59:41
4F-C, S	Infrared	2020-01-29 21:33:23

REPORT A20-00328

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

<original signed by>

Emmanuel Esemé, Ph.D.
 Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
 41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
 TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613
 E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Report No.: A20-00328
Report Date: 13-Feb-20
Date Submitted: 09-Jan-20
Your Reference: 2019 December Check Assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

141 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2020-01-20 14:58:53
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2020-01-22 22:05:21

REPORT A20-00328

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

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Emmanuel Esemé, Ph.D.
Quality Control Coordinator

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E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A20-00328

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1227007017	48.2	11.5	-36.8	53.3	0.215	8.47	127	0.4	3.7	78	547	4	13	2	891	1.51	5	< 10	34	< 0.5	< 2	0.92	8
1227007071	39.8	16.2	-23.6	47.2	0.343	8.56	976	1.2	14.5	206	730	2	14	3	3360	1.61	5	< 10	36	< 0.5	< 2	1.22	8
1227007127	43.8	23.8	-20.1	47.5	0.501	8.55	206	0.6	0.8	104	468	4	16	2	270	1.94	10	< 10	30	< 0.5	< 2	1.79	10
1227007165	7.19	9.75	2.56	7.04	1.38	9.54	30	< 0.2	< 0.5	129	412	< 1	48	< 2	58	4.80	< 2	< 10	16	< 0.5	2	3.61	22
1230094213	210	32.7	-177	229	0.143	8.08	185	3.3	1.3	114	1010	< 1	54	< 2	357	2.19	14	< 10	< 10	< 0.5	14	1.67	37
1227007177	47.1	16.3	-30.8	51.1	0.318	8.80	254	0.8	1.9	162	438	3	16	2	554	1.09	15	< 10	36	< 0.5	3	0.90	8
V845141							751	3.2	< 0.5	33	267	14	11	15	45	1.13	4	< 10	57	< 0.5	< 2	2.05	10
1227007057	46.2	15.8	-30.5	49.6	0.318	9.20	36	0.3	< 0.5	48	524	3	14	13	100	1.56	4	< 10	35	< 0.5	< 2	1.22	8
1229052015	29.8	46.6	16.8	33.1	1.41	9.26	25	< 0.2	< 0.5	12	202	< 1	14	5	117	1.39	10	< 10	33	< 0.5	2	2.47	8
1229052309	37.0	9.73	-27.2	40.1	0.243	9.25	72	< 0.2	< 0.5	31	224	2	26	7	52	1.47	7	< 10	27	< 0.5	< 2	0.75	7
1227005007	74.0	24.0	-50.1	81.5	0.294	8.98	68	0.7	1.4	42	507	< 1	10	4	352	1.31	11	< 10	26	< 0.5	< 2	1.32	9
1227005056	63.7	28.3	-35.4	69.5	0.407	8.83	66	0.6	1.1	46	502	1	14	5	295	1.42	9	< 10	30	< 0.5	2	1.50	8
1230094240	26.5	18.2	-8.22	29.7	0.614	9.12	71	0.8	< 0.5	32	624	1	15	9	105	2.40	23	< 10	53	< 0.5	2	1.51	8
1227005040	70.6	24.4	-46.2	75.9	0.321	8.80	105	0.6	0.9	38	620	11	37	7	225	1.40	9	< 10	30	< 0.5	3	1.44	9
1227007154	42.1	29.8	-12.3	45.6	0.652	9.09	102	0.6	< 0.5	71	417	3	16	13	153	0.95	8	< 10	30	< 0.5	< 2	1.38	8
1230093408	25.3	18.0	-7.30	24.8	0.726	9.19	106	0.3	< 0.5	23	643	< 1	15	2	88	2.32	9	< 10	48	< 0.5	< 2	1.62	7
1227007013	52.9	10.0	-42.9	57.3	0.175	8.67	162	0.4	3.0	91	674	1	18	< 2	785	1.50	9	< 10	28	< 0.5	3	0.78	10
1227007076	49.1	23.3	-25.7	53.6	0.435	8.73	259	0.4	0.8	130	430	3	12	< 2	241	1.04	17	< 10	30	< 0.5	2	1.07	8
1227007186	57.8	15.2	-42.6	63.1	0.242	8.72	126	0.8	< 0.5	163	334	6	14	3	70	0.99	16	< 10	27	< 0.5	3	0.84	8
1227007040	46.6	11.0	-35.6	50.5	0.217	8.61	167	0.3	3.0	80	532	2	17	3	772	1.27	7	< 10	35	< 0.5	< 2	0.69	8
1227007219	82.3	11.6	-70.7	86.7	0.134	8.53	418	1.2	< 0.5	277	264	5	14	4	68	1.17	19	< 10	23	< 0.5	6	0.66	9
1230093419	13.8	10.7	-3.04	13.5	0.795	8.47	54	0.2	< 0.5	21	762	< 1	14	5	109	1.82	10	< 10	47	< 0.5	< 2	0.74	9
1229052319	19.4	42.5	23.1	19.0	2.24	8.91	104	0.8	< 0.5	15	607	< 1	8	2	150	2.06	7	12	41	< 0.5	< 2	2.10	7
1229052341	51.2	19.5	-31.8	55.1	0.353	8.76	96	1.0	< 0.5	22	350	1	29	4	188	1.18	14	< 10	26	< 0.5	< 2	1.00	8
1227010012	64.1	14.0	-50.1	68.9	0.203	8.77	88	0.5	< 0.5	65	365	3	11	4	99	1.45	14	< 10	20	< 0.5	3	0.96	9
V845142							119	1.8	< 0.5	58	364	4	12	8	66	1.47	5	< 10	83	< 0.5	5	1.23	17
1227011143	81.1	-4.72	-85.9	85.1	-0.0555	8.43	598	0.7	< 0.5	70	338	2	10	3	118	1.60	13	< 10	19	< 0.5	9	0.85	7
1234005466	8.75	15.4	6.63	8.57	1.79	9.33	11	0.2	0.6	12	537	< 1	15	< 2	185	1.73	5	< 10	58	< 0.5	< 2	1.19	8
1227012406	43.6	-0.498	-44.1	49.0	-0.0102	8.65	604	2.1	9.4	123	924	< 1	13	134	2240	1.82	68	< 10	22	< 0.5	< 2	1.04	9
1227012365	31.5	9.49	-22.0	34.6	0.274	8.63	339	0.6	3.2	37	816	< 1	12	46	749	1.84	63	< 10	27	< 0.5	< 2	0.70	9
1227011230	46.2	16.1	-30.1	51.5	0.313	8.64	640	2.8	< 0.5	1240	477	2	13	3	76	1.53	8	< 10	28	< 0.5	4	1.02	8
1227012325	57.0	37.6	-19.3	63.7	0.591	8.63	445	3.2	10.5	82	726	< 1	10	22	2570	0.91	72	< 10	21	< 0.5	2	1.63	8
1227011249	70.5	11.0	-59.5	77.8	0.141	8.69	260	1.3	1.9	46	1360	1	29	14	742	3.09	36	< 10	25	< 0.5	< 2	1.52	19
1227011281	38.8	48.8	9.91	42.9	1.14	8.89	81	0.9	< 0.5	137	631	2	15	6	152	1.13	20	< 10	34	< 0.5	< 2	2.01	8
1227011266	35.4	9.72	-25.7	38.6	0.252	8.86	69	0.5	< 0.5	83	491	< 1	17	3	128	1.42	10	< 10	27	< 0.5	3	0.85	8
1227011291	46.3	5.47	-40.9	53.0	0.103	8.71	235	1.6	5.9	112	995	1	32	253	1640	2.52	55	< 10	28	< 0.5	5	1.29	17
1227011177	36.1	32.2	-3.89	39.8	0.810	8.70	259	0.9	0.6	116	640	< 1	13	6	174	2.07	15	< 10	25	< 0.5	3	1.45	7
1227012308	54.5	3.24	-51.2	59.1	0.0548	8.52	231	1.1	2.5	58	880	1	13	57	593	1.77	82	< 10	23	< 0.5	< 2	1.64	8
1227012285	36.1	39.1	2.95	39.2	0.997	8.54	63	0.4	0.7	14	750	< 1	9	6	195	0.67	26	< 10	31	< 0.5	< 2	1.70	7
1234005268	15.0	36.3	21.3	18.7	1.94	9.47	51	0.6	2.7	13	564	< 1	14	3	659	1.33	10	< 10	65	< 0.5	< 2	1.68	7
1227011304	38.5	19.7	-18.8	42.0	0.470	8.81	82	0.8	< 0.5	83	550	1	11	5	61	1.86	14	< 10	31	< 0.5	< 2	1.47	7
1227011309	32.7	19.1	-13.6	37.1	0.516	9.09	257	0.5	< 0.5	90	434	2	20	2	158	1.16	8	< 10	32	< 0.5	4	0.96	7
1234005465	9.47	24.3	14.9	13.2	1.85	9.36	28	0.3	< 0.5	8	569	< 1	16	3	168	1.68	5	< 10	52	< 0.5	< 2	1.73	8

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1230094213	165	7.82	< 10	< 1	0.31	< 10	1.72	0.131	0.072	7.62	3	9	65	0.05	2	< 2	< 10	132	< 10	7	11	0.43	7.48
1227007177	321	2.67	< 10	< 1	0.30	13	0.82	0.057	0.041	1.80	< 2	1	26	0.04	< 1	< 2	< 10	18	< 10	3	20	0.28	1.67
V845141	11	3.14	< 10	< 1	0.25	15	0.44	0.155	0.048	0.04	< 2	2	48	0.30	5	< 2	< 10	61	< 10	15	16	0.39	0.05
1227007057	179	2.31	< 10	< 1	0.15	12	0.92	0.132	0.040	1.61	< 2	1	62	0.03	< 1	< 2	< 10	15	< 10	2	13	0.25	1.62
1229052015	178	1.56	< 10	< 1	0.16	11	0.67	0.137	0.037	1.10	< 2	< 1	100	< 0.01	< 1	< 2	< 10	9	< 10	1	7	0.65	1.08
1229052309	264	2.43	< 10	< 1	0.13	14	0.88	0.109	0.038	1.34	< 2	1	49	0.01	< 1	< 2	< 10	16	< 10	2	16	0.16	1.31
1227005007	93	2.53	< 10	< 1	0.14	20	0.95	0.113	0.056	2.77	< 2	< 1	42	< 0.01	< 1	< 2	< 10	8	< 10	2	19	0.29	2.66
1227005056	158	2.27	< 10	< 1	0.16	17	0.93	0.147	0.050	2.36	2	< 1	76	< 0.01	< 1	< 2	< 10	9	< 10	2	16	0.39	2.27
1230094240	122	2.33	< 10	< 1	0.39	11	1.40	0.187	0.038	1.04	< 2	1	138	0.04	2	< 2	< 10	19	< 10	2	9	0.27	0.97
1227005040	186	3.09	< 10	< 1	0.17	19	0.89	0.134	0.051	2.60	< 2	< 1	62	< 0.01	6	< 2	< 10	9	< 10	3	19	0.37	2.48
1227007154	239	2.34	< 10	< 1	0.14	12	0.70	0.062	0.038	1.57	3	1	34	0.01	< 1	< 2	< 10	14	< 10	2	16	0.36	1.49
1230093408	182	2.28	< 10	< 1	0.30	12	1.00	0.248	0.045	0.86	< 2	1	143	0.06	< 1	< 2	< 10	19	< 10	2	7	0.23	0.81
1227007013	136	2.98	< 10	< 1	0.14	17	0.86	0.100	0.046	1.96	< 2	1	41	0.02	< 1	< 2	< 10	18	< 10	3	16	0.09	1.87
1227007076	148	2.37	< 10	< 1	0.17	12	0.70	0.075	0.039	1.79	< 2	1	35	< 0.01	< 1	< 2	< 10	14	< 10	2	16	0.25	1.75
1227007186	219	2.76	< 10	< 1	0.20	12	0.75	0.054	0.038	2.11	< 2	1	21	0.02	< 1	< 2	< 10	18	< 10	3	19	0.19	2.06
1227007040	192	2.41	< 10	< 1	0.15	13	0.75	0.092	0.040	1.66	< 2	1	35	< 0.01	< 1	< 2	< 10	12	< 10	2	17	0.17	1.65
1227007219	160	3.34	< 10	< 1	0.18	12	0.82	0.076	0.040	2.91	< 2	< 1	41	0.02	< 1	< 2	< 10	11	< 10	3	22	0.32	2.83
1230093419	117	2.22	< 10	< 1	0.18	14	1.03	0.109	0.044	0.50	< 2	< 1	48	0.03	< 1	< 2	< 10	13	< 10	2	5	0.15	0.44
1229052319	97	2.02	< 10	< 1	0.20	19	1.17	0.089	0.049	0.68	< 2	< 1	58	< 0.01	1	< 2	< 10	11	< 10	1	6	0.47	0.62
1229052341	213	2.29	< 10	< 1	0.23	16	0.90	0.056	0.056	1.86	< 2	1	31	0.01	1	< 2	< 10	12	< 10	2	14	0.26	1.80
1227010012	103	2.38	< 10	< 1	0.17	13	1.02	0.082	0.043	2.42	< 2	< 1	37	< 0.01	< 1	< 2	< 10	10	< 10	2	16	0.15	2.25
V845142	12	3.34	< 10	< 1	0.24	< 10	0.57	0.244	0.058	0.06	< 2	4	40	0.46	7	< 2	< 10	101	< 10	15	11	0.02	0.07
1227011143	78	3.24	< 10	< 1	0.20	13	0.93	0.117	0.040	2.89	< 2	< 1	43	< 0.01	< 1	< 2	< 10	7	< 10	2	16	0.18	2.78
1234005466	111	2.05	< 10	< 1	0.29	13	0.78	0.122	0.039	0.31	< 2	2	56	0.08	< 1	< 2	< 10	22	< 10	2	7	0.15	0.28
1227012406	80	2.62	< 10	< 1	0.24	14	1.30	0.030	0.048	1.73	< 2	< 1	30	0.04	< 1	< 2	< 10	10	< 10	1	10	0.18	1.60
1227012365	76	2.42	< 10	< 1	0.26	15	1.28	0.033	0.047	1.27	< 2	< 1	26	0.02	< 1	< 2	< 10	9	< 10	1	10	0.12	1.13
1227011230	144	2.75	< 10	< 1	0.22	10	0.84	0.095	0.036	1.82	< 2	< 1	44	0.02	< 1	< 2	< 10	11	< 10	1	16	0.22	1.68
1227012325	86	2.15	< 10	< 1	0.28	12	0.66	0.022	0.040	2.24	7	< 1	19	< 0.01	< 1	< 2	< 10	5	< 10	2	11	0.45	2.08
1227011249	94	5.15	< 10	< 1	0.37	13	2.10	0.080	0.058	2.58	< 2	3	52	0.18	7	< 2	< 10	64	< 10	5	19	0.17	2.54
1227011281	227	2.36	< 10	< 1	0.34	12	0.98	0.040	0.042	1.50	< 2	< 1	50	0.02	< 1	< 2	< 10	13	< 10	2	10	0.90	1.40
1227011266	250	2.27	< 10	< 1	0.16	11	0.85	0.095	0.037	1.40	3	1	45	0.01	< 1	< 2	< 10	16	< 10	2	13	0.19	1.26
1227011291	121	3.91	< 10	< 1	0.31	19	1.98	0.077	0.067	1.80	3	3	68	0.05	6	< 2	< 10	43	< 10	4	9	0.27	1.73
1227011177	164	2.38	< 10	< 1	0.20	11	1.27	0.097	0.038	1.47	< 2	< 1	45	0.02	< 1	< 2	< 10	11	< 10	1	9	0.45	1.30
1227012308	68	2.25	< 10	< 1	0.28	11	0.93	0.080	0.039	2.10	3	< 1	36	0.01	< 1	< 2	< 10	8	< 10	1	17	0.33	1.93
1227012285	89	1.45	< 10	< 1	0.22	< 10	0.55	0.026	0.046	1.43	< 2	< 1	28	< 0.01	< 1	< 2	< 10	4	< 10	1	8	0.68	1.28
1234005268	142	2.00	< 10	< 1	0.35	13	0.87	0.061	0.045	0.60	< 2	2	28	0.07	< 1	< 2	< 10	21	< 10	3	10	0.41	0.61
1227011304	118	2.29	< 10	< 1	0.27	12	0.94	0.116	0.044	1.49	< 2	1	75	0.02	2	< 2	< 10	16	< 10	2	9	0.26	1.37
1227011309	267	2.28	< 10	< 1	0.22	11	0.86	0.064	0.037	1.36	< 2	1	28	0.02	< 1	< 2	< 10	17	< 10	2	14	0.24	1.21
1234005465	149	2.11	< 10	< 1	0.27	13	0.87	0.077	0.042	0.48	2	2	40	0.08	2	< 2	< 10	23	< 10	2	7	0.30	0.43

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
NBM-1 (slight fzz) Meas		43.1				8.12																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		44.3				7.98																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		44.4																					
NBM-1 (slight fzz) Cert		46.6																					
OREAS 922 (AQUA REGIA) Meas								1.3	< 0.5	2210	772	< 1	37	60	261	2.70	11		79	0.8	10	0.43	20
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2070	759	< 1	34	56	253	2.56	7		76	0.7	6	0.42	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2190	766	< 1	36	60	260	2.72	4		82	0.8	9	0.44	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								1.6	< 0.5	4390	876	< 1	35	90	342	2.70	8		64	0.7	19	0.43	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.8	< 0.5	4310	864	< 1	33	81	342	2.65	6		56	0.7	17	0.43	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								2.0	< 0.5	4220	855	< 1	34	72	328	2.67	8		63	0.7	16	0.43	22
OREAS 923								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
(AQUA REGIA) Cert																							
Oreas 96 (Aqua Regia) Meas								11.7		> 10000				93	439						< 2		46
Oreas 96 (Aqua Regia) Cert								11.50		39100. 00				100	448						27.9		49.2
Oreas 96 (Aqua Regia) Meas								11.3		> 10000				88	430						8		45
Oreas 96 (Aqua Regia) Cert								11.50		39100. 00				100	448						27.9		49.2
Oreas 96 (Aqua Regia) Meas								11.5		> 10000				92	433						< 2		45
Oreas 96 (Aqua Regia) Cert								11.50		39100. 00				100	448						27.9		49.2
OREAS 218 Meas								534															
OREAS 218 Cert								531															
OREAS 218 Meas								531															
OREAS 218 Cert								531															
OREAS 218 Meas								498															
OREAS 218 Cert								531															
Oreas 621 (Aqua Regia) Meas								73.4	308	3700	557	14	26	> 5000	> 10000	1.71	78			0.6	3	1.65	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								73.7	295	3710	557	14	26	> 5000	> 10000	1.70	79			0.6	7	1.66	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								68.6	279	3450	539	12	27	> 5000	> 10000	1.59	73			0.6	5	1.74	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 45f (Aqua Regia) Meas										371	181	2	273	6	28	7.30			135	1.0	< 2	0.07	39
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										358	175	2	254	5	27	6.94			130	1.0	< 2	0.07	39
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										351	169	< 1	251	3	23	6.69			131	1.0	< 2	0.07	37
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 238 (Fire Assay) Meas								3050															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3140															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3100															
OREAS 238 (Fire Assay) Cert								3030															

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Assay) Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
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GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
1227003170 Orig								0.5	< 0.5	171	431	3	12	3	54	1.24	10	< 10	28	< 0.5	4	0.65	9
1227003170 Dup								0.6	< 0.5	173	429	3	13	4	56	1.28	7	< 10	31	< 0.5	4	0.66	9
1227003212 Orig							139																
1227003212 Dup							154																
V845137 Orig																							
V845137 Dup																							
1227004122 Orig							212																
1227004122 Dup							218																
1227003049 Orig								0.6	0.6	60	446	1	12	4	186	2.20	9	< 10	24	< 0.5	4	1.30	9
1227003049 Dup								0.6	0.6	61	448	2	12	4	175	2.22	9	< 10	23	< 0.5	5	1.31	9
1227004149 Orig							125																
1227004149 Dup							123																
1227004093 Orig																							
1227004093 Dup																							
1229051045 Orig								0.9	9.3	29	1160	< 1	11	44	2440	0.86	72	< 10	27	< 0.5	< 2	1.87	8
1229051045 Dup								0.9	9.3	31	1160	< 1	10	42	2420	0.86	62	< 10	25	< 0.5	< 2	1.87	9
1227004184 Orig																							
1227004184 Dup																							
1230095131 Orig							349																
1230095131 Dup							270																
1227008003 Orig	18.4	6.35	-12.1	18.1	0.352																		
1227008003 Dup	18.4	6.37	-12.1	18.1	0.352																		
1227008037 Orig								0.7	< 0.5	129	280	3	13	7	49	1.71	10	< 10	27	< 0.5	5	1.16	9
1227008037 Dup								0.6	< 0.5	123	279	3	15	8	51	1.74	8	< 10	29	< 0.5	7	1.15	9
1229052129 Orig							153																
1229052129 Dup							144																
1230095024 Orig																							
1230095024 Dup																							
1227005032 Orig							182																
1227005032 Dup							185																
1227005165 Orig								2.5	0.7	32	1080	< 1	12	61	215	1.32	40	< 10	29	< 0.5	< 2	2.34	8
1227005165 Dup								2.3	0.7	31	1070	< 1	12	55	218	1.33	45	< 10	28	< 0.5	< 2	2.37	8

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1227008254 Orig																							
1227008254 Dup																							
1227008082 Orig						8.74																	
1227008082 Dup						8.79																	
1227008166 Orig							60																
1227008166 Dup							55																
1229052024 Orig																							
1229052024 Dup																							
1230095004 Orig								0.4	2.6	28	660	< 1	14	6	762	1.65	9	< 10	37	< 0.5	< 2	1.00	8
1230095004 Dup								0.4	2.7	30	659	< 1	14	12	756	1.65	8	< 10	37	< 0.5	< 2	0.99	9
1227008219 Orig							13																
1227008219 Dup							14																
1227008245 Orig																							
1227008245 Dup																							
1227008256 Orig								< 0.2	< 0.5	18	432	< 1	12	7	72	2.42	7	16	57	< 0.5	< 2	1.39	9
1227008256 Dup								< 0.2	< 0.5	18	426	< 1	12	4	70	2.39	6	16	65	< 0.5	2	1.38	8
1227008273 Orig	92.1	7.37	-84.7	98.9	0.0745																		
1227008273 Dup	92.1	7.36	-84.7	98.9	0.0744																		
1227007071 Orig							952																
1227007071 Dup							1000																
1227007177 Orig																							
1227007177 Dup																							
1227007013 Orig							152																
1227007013 Dup							172																
1227007076 Orig								0.5	0.7	134	440	3	11	3	245	1.07	17	< 10	28	< 0.5	2	1.08	8
1227007076 Dup								0.4	0.8	126	420	3	13	< 2	238	1.00	16	< 10	31	< 0.5	2	1.05	8
1227011143 Orig							584																
1227011143 Dup							612																
1227011281 Orig								1.0	0.5	137	632	2	13	6	152	1.13	19	< 10	35	< 0.5	2	2.01	7
1227011281 Dup								0.8	< 0.5	137	630	2	16	5	152	1.13	20	< 10	33	< 0.5	< 2	2.01	8
1227012308 Orig																							
1227012308 Dup																							
1227011309 Orig						9.08																	
1227011309 Dup						9.09																	
1234005465 Orig	9.47	24.4	14.9	13.2	1.85																		
1234005465 Dup	9.47	24.3	14.8	13.2	1.85																		
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
BaSO4 Meas																							14.1	
BaSO4 Cert																								14.0
BaSO4 Meas																								14.1
BaSO4 Cert																								14.0
BaSO4 Meas																								14.1
BaSO4 Cert																								14.0
BaSO4 Meas																								14.2
BaSO4 Cert																								14.0
BaSO4 Meas																								13.8
BaSO4 Cert																								14.0
BaSO4 Meas																								14.1
BaSO4 Cert																								14.0
BaSO4 Meas																								14.0
BaSO4 Cert																								14.0
BaSO4 Meas																								13.9
BaSO4 Cert																								14.0
SGR-1b Meas																							27.6	1.60
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.6	1.55
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.5	1.52
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.3	1.53
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.3	1.51
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.3	1.53
SGR-1b Cert																							28	1.53
SGR-1b Meas																							28.1	1.55
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.7	1.52
SGR-1b Cert																							28	1.53
OREAS 98 (Aqua Regia) Meas														19										
OREAS 98 (Aqua Regia) Cert														14.7										
OREAS 98 (Aqua Regia) Meas														19										
OREAS 98 (Aqua Regia) Cert														14.7										
OREAS 98 (Aqua Regia) Meas														20										
OREAS 98 (Aqua Regia) Cert														14.7										
GS311-4 Meas																							1.08	0.45
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.12	0.55
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.10	0.53
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.10	0.52
GS311-4 Cert																							1.11	0.54

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
GS311-4 Meas																						1.10	0.52	
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.09	0.53
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.11	0.54
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.11	0.54
GS311-4 Cert																							1.11	0.54
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
OREAS 922 (AQUA REGIA) Meas	44	5.26	< 10		0.52	33	1.35	0.027	0.064	0.39	< 2	4	17			< 2	< 10	38	< 10	18	20			
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3			
OREAS 922 (AQUA REGIA) Meas	43	5.02	< 10		0.49	33	1.33	0.027	0.061	0.36	< 2	3	16			< 2	< 10	36	< 10	17	18			
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3			
OREAS 922 (AQUA REGIA) Meas	45	5.26	< 10		0.54	34	1.35	0.027	0.064	0.38	3	4	17			< 2	< 10	38	< 10	18	23			
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3			
OREAS 923 (AQUA REGIA) Meas	41	6.04	< 10		0.45	31	1.45		0.061	0.69	3	3	15			< 2	< 10	37	< 10	17	28			
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5			
OREAS 923 (AQUA REGIA) Meas	41	6.00	< 10		0.43	30	1.43		0.061	0.69	3	3	15			< 2	< 10	37	< 10	16	29			
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5			
OREAS 923 (AQUA REGIA) Meas	41	5.91	< 10		0.45	31	1.42		0.059	0.67	3	3	15			< 2	< 10	37	< 10	17	25			
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5			
Oreas 96 (Aqua Regia) Meas										3.99	5													
Oreas 96 (Aqua										4.38	4.53													

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Regia) Cert																							
Oreas 96 (Aqua Regia) Meas										3.87	6												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										4.32	4												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
Oreas 621 (Aqua Regia) Meas	33	3.58	10	4	0.42	18	0.46	0.167	0.035	4.92	132	2	19			< 2	< 10	14	< 10	7	82		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	33	3.58	10	4	0.42	17	0.46	0.169	0.034	4.87	118	2	18			< 2	< 10	14	< 10	7	78		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	31	3.42	< 10	3	0.39	17	0.44	0.157	0.033	4.54	97	2	18			< 2	< 10	13	< 10	7	62		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 45f (Aqua Regia) Meas	349	15.4	20	< 1	0.13	< 10	0.20	0.041	0.022	0.03		21	14	0.14		< 2	< 10	218		4	18		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 45f (Aqua Regia) Meas	339	14.6	20	2	0.12	< 10	0.19	0.039	0.021	0.02		21	13	0.12		< 2	< 10	211		3	15		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 45f (Aqua Regia) Meas	343	14.5	20	6	0.12	< 10	0.19	0.039	0.021	0.02		21	13	0.11		< 2	< 10	206		4	13		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.04	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.31
GS316-3 Cert																						0.0600	0.340

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GS316-3 Meas																						0.05	0.31
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.30
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.31
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.04	0.32
GS316-3 Cert																						0.0600	0.340
1227003170 Orig	149	2.76	< 10	< 1	0.11	12	0.77	0.102	0.038	2.09	2	< 1	41	< 0.01	1	< 2	< 10	12	< 10	2	15		
1227003170 Dup	147	2.73	< 10	< 1	0.11	12	0.76	0.104	0.038	2.09	< 2	< 1	42	< 0.01	3	< 2	< 10	12	< 10	2	15		
1227003212 Orig																						0.19	1.88
1227003212 Dup																						0.19	1.84
V845137 Orig																						0.03	0.08
V845137 Dup																						0.04	0.08
1227004122 Orig																							
1227004122 Dup																							
1227003049 Orig	86	2.86	< 10	< 1	0.13	15	1.16	0.185	0.046	2.88	< 2	< 1	89	< 0.01	< 1	< 2	< 10	9	< 10	2	17		
1227003049 Dup	86	2.84	< 10	< 1	0.13	15	1.18	0.189	0.046	2.94	< 2	< 1	90	< 0.01	< 1	< 2	< 10	9	< 10	2	16		
1227004149 Orig																							
1227004149 Dup																							
1227004093 Orig																						0.29	0.43
1227004093 Dup																						0.28	0.42
1229051045 Orig	68	2.52	< 10	< 1	0.32	16	0.68	0.021	0.051	2.46	4	< 1	30	< 0.01	< 1	< 2	< 10	6	< 10	2	14		
1229051045 Dup	67	2.53	< 10	< 1	0.32	17	0.68	0.022	0.051	2.45	3	< 1	31	< 0.01	< 1	< 2	< 10	6	< 10	2	14		
1227004184 Orig																						0.68	2.29
1227004184 Dup																						0.66	2.26
1230095131 Orig																							
1230095131 Dup																							
1227008003 Orig																							
1227008003 Dup																							
1227008037 Orig	142	3.46	< 10	< 1	0.18	14	1.01	0.129	0.040	2.84	< 2	< 1	102	0.02	1	< 2	< 10	14	< 10	2	16	0.26	2.76
1227008037 Dup	142	3.52	< 10	< 1	0.18	14	1.01	0.132	0.041	2.95	2	< 1	103	0.02	< 1	< 2	< 10	14	< 10	2	16	0.25	2.75
1229052129 Orig																							
1229052129 Dup																							
1230095024 Orig																						0.34	1.72
1230095024 Dup																						0.34	1.79
1227005032 Orig																							
1227005032 Dup																							
1227005165 Orig	83	2.28	< 10	< 1	0.22	14	1.09	0.074	0.046	2.22	< 2	< 1	41	< 0.01	< 1	< 2	< 10	8	< 10	2	13		
1227005165 Dup	83	2.28	< 10	< 1	0.22	14	1.10	0.074	0.047	2.14	< 2	< 1	40	< 0.01	< 1	< 2	< 10	8	< 10	2	11		
1227008254 Orig																						0.23	0.57
1227008254 Dup																						0.22	0.54
1227008082 Orig																							
1227008082 Dup																							
1227008166 Orig																							
1227008166 Dup																							
1229052024 Orig																						0.17	0.96
1229052024 Dup																						0.17	0.99
1230095004 Orig	120	2.12	< 10	< 1	0.17	11	0.90	0.112	0.038	1.13	< 2	1	47	< 0.01	< 1	< 2	< 10	13	< 10	2	16		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1230095004 Dup	129	2.15	< 10	< 1	0.17	10	0.90	0.112	0.039	1.16	< 2	1	46	< 0.01	< 1	< 2	< 10	13	< 10	2	14		
1227008219 Orig																							
1227008219 Dup																							
1227008245 Orig																						0.18	0.09
1227008245 Dup																						0.17	0.09
1227008256 Orig	140	2.39	< 10	< 1	0.38	14	1.18	0.071	0.049	0.93	2	1	67	0.01	< 1	< 2	< 10	16	< 10	2	6		
1227008256 Dup	139	2.35	< 10	< 1	0.37	13	1.16	0.071	0.048	0.89	< 2	1	65	0.01	< 1	< 2	< 10	16	< 10	2	6		
1227008273 Orig																							
1227008273 Dup																							
1227007071 Orig																							
1227007071 Dup																							
1227007177 Orig																						0.28	1.67
1227007177 Dup																						0.28	1.67
1227007013 Orig																						0.09	1.89
1227007013 Dup																						0.09	1.86
1227007076 Orig	153	2.42	< 10	< 1	0.17	12	0.71	0.077	0.039	1.83	< 2	1	35	< 0.01	< 1	< 2	< 10	14	< 10	2	15		
1227007076 Dup	142	2.32	< 10	< 1	0.16	12	0.68	0.073	0.038	1.75	< 2	1	34	< 0.01	< 1	< 2	< 10	13	< 10	2	16		
1227011143 Orig																						0.18	2.82
1227011143 Dup																						0.18	2.74
1227011281 Orig	230	2.33	< 10	< 1	0.35	13	0.98	0.041	0.042	1.46	3	< 1	50	0.02	< 1	< 2	< 10	13	< 10	2	10		
1227011281 Dup	225	2.39	< 10	< 1	0.34	12	0.98	0.040	0.042	1.54	< 2	< 1	50	0.02	< 1	< 2	< 10	13	< 10	2	10		
1227012308 Orig																						0.33	1.94
1227012308 Dup																						0.32	1.92
1227011309 Orig																							
1227011309 Dup																							
1234005465 Orig																							
1234005465 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		



Report No.: A20-01686
Report Date: 28-Feb-20
Date Submitted: 11-Feb-20
Your Reference: 2020 January Check Assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

140 Pulp samples were submitted for analysis.

Table with 3 columns: Analytical package(s) requested, Test Name, Testing Date. Rows include 11 ABA Modified Sobek, 4F-C, S, Acid Base Accounting, and Infrared.

REPORT A20-01686

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

<original signed by>

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613
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**New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada**

**Report No.: A20-01686
Report Date: 28-Feb-20
Date Submitted: 11-Feb-20
Your Reference: 2020 January Check Assays**

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

140 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2020-02-14 15:27:35
1A3-50-Tbay	QOP AA-Au (Au - Fire Assay Gravimetric)	2020-02-20 12:26:38
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2020-02-21 14:44:28

REPORT **A20-01686**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

<original signed by>



Emmanuel Esemé , Ph.D.
Quality Control Coordinator

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Results

Activation Laboratories Ltd.

Report: A20-01686

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1229054001	245	5.23	< 10	2	0.18	11	1.58	0.056	0.052	3.85	< 2	4	28	0.02	3	< 2	< 10	55	< 10	6	16	0.61	3.64
1229054063	228	2.71	< 10	< 1	0.60	14	1.11	0.078	0.045	1.24	< 2	2	30	0.09	< 1	< 2	< 10	29	< 10	3	21	0.44	1.18
1227012251	80	2.31	< 10	< 1	0.19	15	0.72	0.050	0.047	1.70	3	< 1	37	< 0.01	2	< 2	< 10	9	< 10	1	12	0.10	1.55
1227012269	78	2.58	< 10	< 1	0.21	13	0.97	0.028	0.052	2.20	< 2	< 1	32	0.02	1	< 2	< 10	8	< 10	2	10	0.10	2.02
1229054167	111	2.09	< 10	< 1	0.25	13	0.91	0.108	0.037	1.03	< 2	1	43	0.01	3	< 2	< 10	12	< 10	2	14	0.40	0.95
1229054108	189	2.23	< 10	< 1	0.23	18	0.64	0.146	0.049	1.41	< 2	1	115	0.05	1	< 2	< 10	14	< 10	3	16	0.61	1.30
1227012301	71	2.24	< 10	< 1	0.24	13	1.09	0.047	0.041	1.76	< 2	< 1	33	0.03	3	< 2	< 10	9	< 10	2	16	0.22	1.66
1229054104	135	2.35	< 10	< 1	0.20	15	0.55	0.091	0.048	2.11	< 2	< 1	59	0.03	1	< 2	< 10	11	< 10	2	24	0.25	1.99
1234005378	167	2.66	< 10	< 1	0.31	27	1.26	0.161	0.064	0.14	< 2	3	130	0.13	4	< 2	< 10	35	< 10	4	16	0.27	0.11
1229054176	135	2.91	< 10	< 1	0.23	14	1.15	0.100	0.044	1.45	< 2	1	39	< 0.01	2	< 2	< 10	14	< 10	3	14	0.24	1.38
1227020184	126	3.40	< 10	< 1	0.16	14	1.11	0.182	0.044	2.02	< 2	2	126	< 0.01	< 1	< 2	< 10	21	< 10	3	12	0.20	1.96
1227020001	111	3.83	< 10	< 1	0.19	16	1.47	0.081	0.045	2.58	< 2	1	43	0.01	3	< 2	< 10	17	< 10	3	25	0.11	2.57
1227020179	98	2.44	< 10	< 1	0.20	14	1.39	0.147	0.039	1.58	< 2	< 1	74	< 0.01	< 1	< 2	< 10	10	< 10	2	21	0.18	1.59
V860606	14	3.52	< 10	< 1	0.23	11	0.54	0.262	0.060	0.06	< 2	4	41	0.49	5	< 2	< 10	101	< 10	17	26		
1227012221	57	2.31	< 10	< 1	0.17	14	0.88	0.044	0.046	1.84	< 2	< 1	32	< 0.01	2	< 2	< 10	9	< 10	1	12	0.07	1.72
1227020048	167	2.36	< 10	< 1	0.30	16	1.43	0.127	0.045	1.24	< 2	1	109	0.07	2	< 2	< 10	20	< 10	3	19	0.27	1.23
1228028050	165	2.02	< 10	< 1	0.18	11	1.11	0.113	0.036	0.69	< 2	2	76	< 0.01	3	< 2	< 10	17	< 10	2	4	0.56	0.61
1228028027	90	2.11	< 10	< 1	0.36	17	1.00	0.168	0.046	1.74	< 2	1	64	0.04	1	< 2	< 10	15	< 10	3	12	0.60	1.66
1227012246	117	2.56	< 10	< 1	0.22	19	1.40	0.032	0.079	1.24	2	3	49	0.04	1	< 2	< 10	32	< 10	3	11	0.07	1.17
1228028054	212	1.84	< 10	< 1	0.17	11	0.61	0.203	0.034	0.57	< 2	1	104	0.03	< 1	< 2	< 10	12	< 10	2	10	0.33	0.55
1228028153	109	2.59	< 10	< 1	0.28	18	1.06	0.110	0.057	2.83	6	1	42	0.02	10	< 2	< 10	11	< 10	3	20	0.61	2.68
1228028122	88	3.87	< 10	2	0.36	15	0.77	0.153	0.041	4.80	49	< 1	51	0.02	< 1	< 2	< 10	10	< 10	2	15	0.33	4.59
1228028074	177	2.03	< 10	< 1	0.23	16	0.94	0.111	0.041	1.27	< 2	1	59	0.02	2	< 2	< 10	13	< 10	3	12	0.77	1.26
1227012113	36	2.05	< 10	< 1	0.20	16	0.43	0.067	0.046	2.44	4	< 1	57	< 0.01	5	< 2	< 10	5	< 10	2	21	0.47	2.40
1227020032	67	4.83	< 10	3	0.23	13	2.37	0.026	0.047	4.43	9	2	16	< 0.01	2	< 2	< 10	29	< 10	3	18	0.14	4.36
1227020015	106	1.72	< 10	< 1	0.26	38	0.78	0.081	0.065	0.91	< 2	< 1	81	0.03	1	< 2	< 10	10	< 10	3	13	0.55	0.86
1227012208	92	2.40	< 10	< 1	0.24	17	0.73	0.029	0.047	2.73	< 2	< 1	15	< 0.01	5	< 2	< 10	6	< 10	2	17	0.14	2.51
1227012167	94	2.14	< 10	< 1	0.17	14	0.95	0.082	0.041	2.32	< 2	< 1	48	< 0.01	1	< 2	< 10	7	< 10	2	22	0.29	2.26
1228028068	125	2.13	< 10	< 1	0.34	14	0.99	0.161	0.039	1.73	< 2	1	57	0.04	< 1	< 2	< 10	15	< 10	2	7	0.75	1.60
1228028160	102	2.20	< 10	< 1	0.27	17	0.76	0.057	0.048	2.45	< 2	< 1	25	< 0.01	2	< 2	< 10	6	< 10	2	13	0.67	2.34
1228028003	94	1.75	< 10	< 1	0.14	13	0.85	0.068	0.037	1.00	< 2	< 1	56	< 0.01	2	< 2	< 10	9	< 10	1	7	0.24	0.94
1228029018	128	1.18	< 10	< 1	0.24	15	0.75	0.068	0.037	0.68	< 2	< 1	55	< 0.01	< 1	< 2	< 10	8	< 10	1	8	0.19	0.64
1228029048	113	2.54	< 10	< 1	0.23	16	1.03	0.079	0.042	1.28	< 2	< 1	66	< 0.01	< 1	< 2	< 10	11	< 10	1	11	0.26	1.18
1228029129	253	1.95	< 10	< 1	0.14	20	0.79	0.243	0.048	1.23	< 2	2	163	< 0.01	< 1	< 2	< 10	14	< 10	2	13	0.36	1.13
V860607	12	3.70	< 10	< 1	0.30	11	0.67	0.171	0.070	0.07	< 2	5	30	0.41	5	< 2	< 10	112	< 10	16	14		
1228032229	172	3.45	< 10	< 1	0.25	23	1.97	0.030	0.079	1.28	< 2	2	48	0.03	3	< 2	< 10	27	< 10	3	14	0.25	1.25
1228032098	130	2.32	< 10	< 1	0.24	13	1.58	0.040	0.040	0.99	< 2	< 1	29	< 0.01	2	< 2	< 10	11	< 10	2	13	0.39	0.93
1228030149	147	2.33	< 10	< 1	0.35	21	1.20	0.093	0.051	1.49	< 2	2	44	0.04	2	< 2	< 10	17	< 10	3	20	0.35	1.39

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
1228030120	
1228028190	
1334004017	
1228029244	
1227009102	
1228030101	
1228029192	
1228030022	
1334004045	
1227009023	
1228030200	
1227009097	
1229055042	
1227009132	
1228029185	
1228029075	
1227009077	
1228030235	
1227009116	
V860601	
1228029207	
1227012117	
1228028182	
1228028131	
1228029001	
1228029158	
1334004073	
1228028197	
1228029077	
1228029199	
1228029155	
1227012068	
1228029106	
1228030037	
1228029071	
1228030039	
V860602	
1227019048	
1227012197	
1227019090	
1227012090	
1227012149	
1229056034	
1227012131	363
1227019118	
1227019142	
1229055044	
1227019040	
1229056128	
1227019096	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
1227012050	
1227019226	
1227019189	
1229056044	
1229056026	
V860603	
1227020135	
1227020140	
1227020145	
1234005424	
1234005115	
1229053032	
1234005132	
1234005013	
1229053165	
1229053079	
1234005291	
1229053058	
1229053182	
1229053125	
1229053150	
1234005177	
V860604	
1228030238	
1229055021	
1229055094	
1227009046	
1227009227	
1229055067	
1229055109	
1227009063	
1227009201	
1229056002	
1227009001	
1227019092	
1229055064	
1227009191	
1227019066	
1227019028	
1227019145	
1227019195	
1227019083	
V860605	
1229053104	
1229053191	
1229053100	
1229054071	
1234005270	
1229054106	
1229054081	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
1229054053	
1229054123	
1229054001	
1229054063	
1227012251	
1227012269	
1229054167	
1229054108	
1227012301	
1229054104	
1234005378	
1229054176	
1227020184	
1227020001	
1227020179	
V860606	
1227012221	
1227020048	
1228028050	
1228028027	
1227012246	
1228028054	
1228028153	
1228028122	
1228028074	
1227012113	
1227020032	
1227020015	
1227012208	
1227012167	
1228028068	
1228028160	
1228028003	
1228029018	
1228029048	
1228029129	
V860607	
1228032229	
1228032098	
1228030149	

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas								0.3	< 0.5	68	972	1	22	85	120	6.05	241	< 10	701	0.9	3	0.13	12
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.4	< 0.5	71	1000	1	23	89	123	6.30	224	< 10	781	0.9	3	0.15	12
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.4	< 0.5	75	1010	2	22	88	122	6.62	242	< 10	775	0.9	3	0.15	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
BaSO4 Cert																							
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BaSO4 Meas																							
BaSO4 Cert																							
SGR-1b Meas																							
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SGR-1b Cert																							
GS311-4 Meas																							
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GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
NBM-1 (slight fzz)		42.6				8.59																	

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Meas																							
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		42.3				7.99																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.6																					
NBM-1 (slight fzz) Cert		46.6																					
OREAS 922 (AQUA REGIA) Meas								1.0	< 0.5	2250	747	< 1	33	55	252	2.59	4		79	0.8	9	0.42	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2230	748	< 1	34	55	259	2.59	3		79	0.8	8	0.42	18
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								1.2	< 0.5	2320	745	< 1	33	54	259	2.72	6		84	0.8	8	0.44	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								2.2	< 0.5	4530	832	< 1	32	71	331	2.62	5		67	0.7	22	0.43	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 96 (Aqua Regia) Meas								10.7		> 10000				82	412						51		47
Oreas 96 (Aqua Regia) Cert								11.50		39100. 00				100	448						27.9		49.2
Oreas 96 (Aqua Regia) Meas								11.2		> 10000				83	412						72		47
Oreas 96 (Aqua Regia) Cert								11.50		39100. 00				100	448						27.9		49.2
OREAS 218 Meas								531															
OREAS 218 Cert								531															
OREAS 218 Meas								542															
OREAS 218 Cert								531															
OREAS 218 Meas								516															
OREAS 218 Cert								531															
OREAS 218 Meas								543															
OREAS 218 Cert								531															
OREAS 218 Meas								540															
OREAS 218 Cert								531															
OREAS 218 Meas								542															
OREAS 218 Cert								531															

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Oreas 621 (Aqua Regia) Meas								69.3	272	3690	511	13	22	> 5000	> 10000	1.60	79			0.6	6	1.37	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								71.1	270	3590	508	14	22	> 5000	> 10000	1.59	76			0.6	4	1.69	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								71.8	271	3730	515	14	24	> 5000	> 10000	1.65	81			0.6	6	1.50	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 45f (Aqua Regia) Meas										356	168	1	222	8	27	6.64			133	1.0	< 2	0.07	38
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										355	164	1	224	11	27	6.62			137	1.0	4	0.07	37
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										373	172	1	225	10	27	7.04			136	1.1	7	0.07	39
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 238 (Fire Assay) Meas							3080																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3100																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3100																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3100																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3110																
OREAS 238 (Fire Assay) Cert							3030																
GS316-3 Meas																							
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Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS316-3 Meas																							
GS316-3 Cert																							
1227009023 Orig							131																
1227009023 Dup							136																
1229055042 Orig								1.1	2.4	70	529	1	13	6	752	1.65	21	< 10	54	< 0.5	8	1.05	11
1229055042 Dup								1.1	2.6	73	542	1	14	5	780	1.68	20	< 10	54	< 0.5	5	1.07	9
1227009116 Orig							18																
1227009116 Dup							20																
1228029207 Orig																							
1228029207 Dup																							
1334004073 Orig								< 0.2	< 0.5	102	1200	< 1	69	< 2	96	3.86	3	< 10	16	< 0.5	2	5.25	35
1334004073 Dup								0.2	< 0.5	102	1180	< 1	69	< 2	94	3.80	5	< 10	16	< 0.5	< 2	5.16	33
1228029199 Orig							65																
1228029199 Dup							78																
1227012068 Orig																							
1227012068 Dup																							
1227019090 Orig								0.5	< 0.5	28	426	< 1	13	5	51	2.34	32	< 10	52	< 0.5	4	1.50	9
1227019090 Dup								0.5	< 0.5	27	418	< 1	12	6	51	2.28	34	< 10	55	< 0.5	5	1.48	9
1229056034 Orig																							
1229056034 Dup																							
1227012131 Orig							> 5000																
1227012131 Dup							> 5000																
1227019118 Orig							1260																
1227019118 Dup							1390																
1227019040 Orig	19.2	28.1	8.95	23.6	1.19																		
1227019040 Dup	19.2	28.0	8.84	23.6	1.19																		
1229056044 Orig								0.7	< 0.5	32	655	1	16	8	104	2.08	16	< 10	45	< 0.5	3	1.21	13
1229056044 Dup								0.6	< 0.5	30	632	1	16	7	99	1.98	14	< 10	49	< 0.5	3	1.15	12
1229056026 Orig							215																
1229056026 Dup							244																
1229053165 Orig							148																
1229053165 Dup							195																
1228030238 Orig						9.12																	
1228030238 Dup						9.05																	
1227009046 Orig								0.6	< 0.5	133	370	2	12	5	62	2.11	20	< 10	37	< 0.5	5	0.44	14
1227009046 Dup								0.7	< 0.5	138	378	2	12	5	63	2.15	24	< 10	32	< 0.5	5	0.45	14
1229055109 Orig							174																
1229055109 Dup							192																
1227009191 Orig																							
1227009191 Dup																							
1227019145 Orig							69																
1227019145 Dup							68																
1227019195 Orig								1.3	< 0.5	98	256	1	12	13	31	1.87	24	< 10	37	< 0.5	5	0.69	10
1227019195 Dup								1.2	< 0.5	95	255	1	12	11	31	1.86	22	< 10	36	< 0.5	5	0.69	10
1229054071 Orig	56.2	13.1	-43.2	61.6	0.212																		
1229054071 Dup	56.2	13.0	-43.2	61.6	0.212																		
1229054106 Orig																							
1229054106 Dup																							
1229054063 Orig								0.8	1.9	57	800	2	14	3	439	1.41	13	< 10	79	< 0.5	< 2	1.08	12

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1229054063 Dup								0.8	2.0	58	804	2	15	2	454	1.42	14	< 10	59	< 0.5	< 2	1.09	12
1227012301 Orig																							
1227012301 Dup																							
1227020179 Orig							258																
1227020179 Dup							201																
1227020048 Orig								0.5	0.7	55	552	2	12	< 2	151	2.28	10	< 10	53	< 0.5	4	1.51	9
1227020048 Dup								0.4	0.7	58	551	2	12	< 2	148	2.35	10	< 10	56	< 0.5	4	1.52	10
1227012246 Orig																							
1227012246 Dup																							
1228028074 Orig							51																
1228028074 Dup							55																
1228028068 Orig																							
1228028068 Dup																							
1228029018 Orig								0.4	< 0.5	34	343	1	10	20	105	1.50	8	< 10	40	< 0.5	< 2	0.95	6
1228029018 Dup								0.4	< 0.5	31	349	1	10	23	113	1.51	9	< 10	42	< 0.5	< 2	0.95	6
1228029048 Orig							246																
1228029048 Dup							214																
1228032098 Orig						8.96																	
1228032098 Dup						8.96																	
1228030149 Orig	38.5	29.6	-8.90	42.6	0.696																		
1228030149 Dup	38.5	29.8	-8.73	42.6	0.700																		
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank							< 5																
Method Blank																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
GXR-6 Meas	80	5.42	20	2	1.11	< 10	0.38	0.112	0.033	0.01	4	19	28		< 1	< 2	< 10	168	< 10	5	12			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
GXR-6 Meas	83	5.57	20	1	1.13	< 10	0.40	0.133	0.034	0.01	4	20	33		< 1	< 2	< 10	169	< 10	5	7			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
GXR-6 Meas	86	5.53	20	2	1.21	10	0.42	0.140	0.035	0.01	4	21	34		< 1	< 2	< 10	177	< 10	5	10			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
BaSO4 Meas																							14.1	
BaSO4 Cert																								14.0
BaSO4 Meas																								13.8
BaSO4 Cert																								14.0
BaSO4 Meas																								14.2
BaSO4 Cert																								14.0
BaSO4 Meas																								14.3
BaSO4 Cert																								14.0
BaSO4 Meas																								14.3
BaSO4 Cert																								14.0
BaSO4 Meas																								14.3
BaSO4 Cert																								14.0
BaSO4 Meas																								14.4
BaSO4 Cert																								14.0
SGR-1b Meas																							27.4	1.54
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.3	1.56
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.4	1.56
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.4	1.50
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.1	1.50
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.6	1.52
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.4	1.52
SGR-1b Cert																							28	1.53
GS311-4 Meas																							1.10	0.53
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.10	0.53
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.10	0.53
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.12	0.52
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.11	0.53
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.11	0.54
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.11	0.52
GS311-4 Cert																							1.11	0.54
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz)																								

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	49	5.04	< 10		0.50	39	1.34	0.032	0.062	0.37	2	4	16			< 2	< 10	37	< 10	22	22		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	50	5.06	< 10		0.49	39	1.35	0.033	0.061	0.37	3	4	17			< 2	< 10	36	< 10	21	11		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	50	5.19	< 10		0.54	41	1.40	0.035	0.064	0.38	2	4	17			< 2	< 10	38	< 10	23	23		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 923 (AQUA REGIA) Meas	45	5.85	< 10		0.44	37	1.44		0.060	0.68	3	4	15			< 2	< 10	36	< 10	20	31		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 96 (Aqua Regia) Meas										3.88	6												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										3.74	6												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
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OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
Oreas 621 (Aqua Regia) Meas	30	3.25	10	4	0.39	19	0.44	0.154	0.034	4.25	106	2	17			< 2	< 10	13	< 10	8	66		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua	31	3.24	10	4	0.39	20	0.44	0.158	0.033	4.64	112	2	18			< 2	< 10	13	< 10	8	66		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Regia) Meas																							
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	38	3.30	10	4	0.41	20	0.45	0.164	0.034	4.56	115	3	18			< 2	< 10	14	< 10	8	68		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 45f (Aqua Regia) Meas	365	14.2	20	< 1	0.11	11	0.18	0.046	0.021	0.02		27	14	0.13		< 2	< 10	204		5	19		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 45f (Aqua Regia) Meas	364	14.4	20	< 1	0.11	11	0.18	0.049	0.021	0.02		27	15	0.10		< 2	< 10	205		5	15		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 45f (Aqua Regia) Meas	376	14.5	20	< 1	0.12	11	0.19	0.051	0.022	0.02		28	15	0.14		< 2	< 10	213		5	20		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
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OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.05	0.32
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.32
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.32
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.32
GS316-3 Cert																						0.0600	0.340
1227009023 Orig																						0.12	2.70
1227009023 Dup																						0.13	2.71
1229055042 Orig	184	2.51	< 10	< 1	0.27	16	0.81	0.141	0.043	1.84	< 2	1	55	0.01	2	< 2	< 10	13	< 10	2	19		
1229055042 Dup	194	2.54	< 10	< 1	0.28	16	0.83	0.146	0.044	1.86	< 2	1	56	0.01	5	< 2	< 10	13	< 10	2	19		
1227009116 Orig																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
1227009116 Dup																								
1228029207 Orig																							0.53	1.13
1228029207 Dup																							0.53	1.13
1334004073 Orig	169	9.48	10	1	0.05	< 10	2.68	0.245	0.047	0.17	3	20	70	0.13	2	< 2	< 10	260	< 10	10	5			
1334004073 Dup	166	9.44	10	< 1	0.05	< 10	2.64	0.243	0.046	0.16	3	19	69	0.13	< 1	< 2	< 10	254	< 10	10	5			
1228029199 Orig																								
1228029199 Dup																								
1227012068 Orig																							0.42	1.62
1227012068 Dup																							0.43	1.67
1227019090 Orig	216	2.92	< 10	< 1	0.36	16	1.20	0.177	0.042	2.05	< 2	1	80	0.01	1	< 2	< 10	11	< 10	3	25			
1227019090 Dup	218	2.88	< 10	< 1	0.34	15	1.17	0.172	0.041	1.98	< 2	1	79	0.01	< 1	< 2	< 10	11	< 10	3	25			
1229056034 Orig																							0.50	1.24
1229056034 Dup																							0.51	1.27
1227012131 Orig																								
1227012131 Dup																								
1227019118 Orig																								
1227019118 Dup																								
1227019040 Orig																								
1227019040 Dup																								
1229056044 Orig	111	3.33	< 10	< 1	0.31	13	1.68	0.093	0.046	1.90	< 2	2	54	0.02	< 1	< 2	< 10	31	< 10	5	18	0.34	1.83	
1229056044 Dup	108	3.24	< 10	< 1	0.30	13	1.59	0.090	0.044	1.81	< 2	2	52	0.02	< 1	< 2	< 10	29	< 10	4	18	0.33	1.87	
1229056026 Orig																								
1229056026 Dup																								
1229053165 Orig																							0.30	1.17
1229053165 Dup																							0.31	1.00
1228030238 Orig																								
1228030238 Dup																								
1227009046 Orig	125	3.48	< 10	< 1	0.28	17	1.69	0.064	0.043	2.24	< 2	1	34	< 0.01	< 1	< 2	< 10	12	< 10	3	24	0.10	2.24	
1227009046 Dup	128	3.59	< 10	< 1	0.27	18	1.68	0.063	0.044	2.35	< 2	1	34	< 0.01	< 1	< 2	< 10	12	< 10	3	24	0.10	2.26	
1229055109 Orig																								
1229055109 Dup																								
1227009191 Orig																							0.31	2.41
1227009191 Dup																							0.33	2.44
1227019145 Orig																								
1227019145 Dup																								
1227019195 Orig	147	3.63	< 10	< 1	0.30	15	0.77	0.060	0.038	2.46	< 2	1	53	0.02	1	< 2	< 10	9	< 10	2	21			
1227019195 Dup	150	3.62	< 10	< 1	0.29	15	0.78	0.059	0.037	2.47	< 2	1	53	0.02	1	< 2	< 10	9	< 10	2	21			
1229054071 Orig																								
1229054071 Dup																								
1229054106 Orig																							0.28	1.93
1229054106 Dup																							0.26	1.88
1229054063 Orig	227	2.68	< 10	< 1	0.60	14	1.10	0.080	0.045	1.21	< 2	2	30	0.09	3	< 2	< 10	28	< 10	3	21			
1229054063 Dup	229	2.73	< 10	< 1	0.61	14	1.12	0.077	0.045	1.26	< 2	2	29	0.09	< 1	< 2	< 10	29	< 10	3	21			
1227012301 Orig																							0.21	1.65
1227012301 Dup																							0.22	1.67
1227020179 Orig																								
1227020179 Dup																								
1227020048 Orig	167	2.37	< 10	< 1	0.29	17	1.42	0.125	0.045	1.24	< 2	1	107	0.07	1	< 2	< 10	20	< 10	3	19			
1227020048 Dup	166	2.35	< 10	< 1	0.31	15	1.44	0.130	0.045	1.24	< 2	2	111	0.08	2	< 2	< 10	21	< 10	3	19			
1227012246 Orig																							0.07	1.18
1227012246 Dup																							0.07	1.16

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1228028074 Orig																							
1228028074 Dup																							
1228028068 Orig																						0.75	1.56
1228028068 Dup																						0.75	1.65
1228029018 Orig	125	1.17	< 10	< 1	0.23	15	0.75	0.068	0.038	0.68	< 2	< 1	54	< 0.01	< 1	< 2	< 10	8	< 10	1	8		
1228029018 Dup	131	1.19	< 10	< 1	0.24	15	0.75	0.069	0.036	0.68	< 2	< 1	55	< 0.01	< 1	< 2	< 10	8	< 10	1	8		
1228029048 Orig																							
1228029048 Dup																							
1228032098 Orig																							
1228032098 Dup																							
1228030149 Orig																						0.35	1.41
1228030149 Dup																						0.35	1.37
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.009	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank																							
Method Blank																							

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
NBM-1 (slight fzz) Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 923 (AQUA REGIA) Meas	
OREAS 923 (AQUA REGIA) Cert	
Oreas 96 (Aqua Regia) Meas	
Oreas 96 (Aqua Regia) Cert	
Oreas 96 (Aqua Regia) Meas	
Oreas 96 (Aqua Regia) Cert	
OREAS 218 Meas	0.56
OREAS 218 Cert	0.53
OREAS 218 Meas	
OREAS 218 Cert	
OREAS 218 Meas	
OREAS 218 Cert	
OREAS 218 Meas	
OREAS 218 Cert	
OREAS 218 Meas	
OREAS 218 Cert	
OREAS 218 Meas	
OREAS 218 Cert	
Oreas 621 (Aqua Regia) Meas	
Oreas 621 (Aqua	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
Regia) Cert	
Oreas 621 (Aqua Regia) Meas	
Oreas 621 (Aqua Regia) Cert	
Oreas 621 (Aqua Regia) Meas	
Oreas 621 (Aqua Regia) Cert	
OREAS 45f (Aqua Regia) Meas	
OREAS 45f (Aqua Regia) Cert	
OREAS 45f (Aqua Regia) Meas	
OREAS 45f (Aqua Regia) Cert	
OREAS 45f (Aqua Regia) Meas	
OREAS 45f (Aqua Regia) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
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OREAS 238 (Fire Assay) Cert	
GS316-3 Meas	
GS316-3 Cert	
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GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
1227009023 Orig	
1227009023 Dup	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
1229055042 Orig	
1229055042 Dup	
1227009116 Orig	
1227009116 Dup	
1228029207 Orig	
1228029207 Dup	
1334004073 Orig	
1334004073 Dup	
1228029199 Orig	
1228029199 Dup	
1227012068 Orig	
1227012068 Dup	
1227019090 Orig	
1227019090 Dup	
1229056034 Orig	
1229056034 Dup	
1227012131 Orig	373
1227012131 Dup	354
1227019118 Orig	
1227019118 Dup	
1227019040 Orig	
1227019040 Dup	
1229056044 Orig	
1229056044 Dup	
1229056026 Orig	
1229056026 Dup	
1229053165 Orig	
1229053165 Dup	
1228030238 Orig	
1228030238 Dup	
1227009046 Orig	
1227009046 Dup	
1229055109 Orig	
1229055109 Dup	
1227009191 Orig	
1227009191 Dup	
1227019145 Orig	
1227019145 Dup	
1227019195 Orig	
1227019195 Dup	
1229054071 Orig	
1229054071 Dup	
1229054106 Orig	
1229054106 Dup	
1229054063 Orig	
1229054063 Dup	
1227012301 Orig	
1227012301 Dup	
1227020179 Orig	
1227020179 Dup	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
1227020048 Orig	
1227020048 Dup	
1227012246 Orig	
1227012246 Dup	
1228028074 Orig	
1228028074 Dup	
1228028068 Orig	
1228028068 Dup	
1228029018 Orig	
1228029018 Dup	
1228029048 Orig	
1228029048 Dup	
1228032098 Orig	
1228032098 Dup	
1228030149 Orig	
1228030149 Dup	
Method Blank	
Method Blank	
Method Blank	
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Method Blank	
Method Blank	
Method Blank	
Method Blank	< 0.02



Report No.: A20-01688
Report Date: 12-Mar-20
Date Submitted: 11-Feb-20
Your Reference: 2020 January Check Assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

141 Pulp samples were submitted for analysis.

Table with 3 columns: The following analytical package(s) were requested, Testing Date, and sample details.

REPORT A20-01688

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

<original signed by>

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Report No.: A20-01688
Report Date: 12-Mar-20
Date Submitted: 11-Feb-20
Your Reference: 2020 January Check Assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

141 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek	Acid Base Accounting	2020-02-28 21:49:40
4F-C, S	Infrared	2020-02-24 21:28:10

REPORT A20-01688

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:
<original signed by>



Emmanuel Esemé, Ph.D.
Quality Control Coordinator

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E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A20-01688

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1226001197	73.7	21.9	-51.9	80.2	0.273	9.01	94	1.1	3.4	65	645	1	22	20	809	2.24	17	< 10	35	< 0.5	5	1.65	12
1228033122	83.0	27.4	-55.6	91.3	0.301	8.86	110	1.4	3.1	78	927	1	29	9	848	2.54	27	< 10	44	< 0.5	3	1.54	19
1228035022	24.5	7.74	-16.7	27.6	0.281	9.09	121	0.5	3.3	24	809	1	14	2	839	1.89	12	< 10	75	< 0.5	5	0.44	9
1228035150	25.4	29.2	3.81	28.2	1.04	9.10	79	0.3	0.8	25	600	< 1	13	5	214	1.59	9	< 10	56	< 0.5	2	1.50	10
1227032055	50.5	23.1	-27.4	55.7	0.415	9.09	196	0.5	< 0.5	147	490	4	15	< 2	73	1.20	8	< 10	47	< 0.5	< 2	1.06	9
1228033128	44.6	33.0	-11.6	50.2	0.657	9.07	126	1.6	3.0	85	547	1	25	4	804	1.58	18	< 10	48	< 0.5	3	1.50	18
1228035179	18.4	44.3	25.9	22.0	2.01	9.36	61	0.4	< 0.5	22	621	2	23	2	108	1.33	11	< 10	96	< 0.5	4	1.71	10
1228035049	44.8	10.2	-34.6	49.0	0.209	8.98	521	2.3	< 0.5	419	630	2	13	2	86	1.55	11	< 10	51	< 0.5	6	0.71	10
1228033173	117	23.2	-93.7	126	0.184	8.80	86	1.3	0.6	24	669	< 1	43	24	264	1.92	29	< 10	20	< 0.5	4	1.12	33
1233001034	5.31	23.6	18.3	5.21	4.54	9.43	26	0.4	< 0.5	10	580	< 1	18	< 2	116	1.44	< 2	< 10	76	< 0.5	< 2	1.25	9
1228033172	133	24.0	-109	150	0.159	8.57	126	2.0	2.0	36	652	< 1	41	8	706	1.83	26	< 10	20	< 0.5	8	1.02	31
1227032051	50.7	15.8	-34.9	54.5	0.290	8.94	126	0.5	< 0.5	136	487	4	18	4	101	1.04	14	< 10	43	< 0.5	< 2	0.86	10
1233001114	12.6	25.6	13.0	15.6	1.64	9.05	32	0.5	1.1	19	597	< 1	23	4	291	1.79	11	< 10	63	< 0.5	< 2	1.65	10
V860613							751	3.4	< 0.5	33	248	14	10	15	42	1.05	< 2	< 10	57	< 0.5	< 2	1.98	10
1227013168	12.1	27.2	15.1	15.0	1.81	9.40	49	< 0.2	< 0.5	18	490	1	12	4	115	1.43	7	< 10	48	< 0.5	5	1.11	9
1227013171	24.4	27.2	2.80	27.9	0.975	9.31	72	0.5	0.6	36	500	1	13	8	188	1.31	14	< 10	45	< 0.5	4	1.21	9
1227013224	33.5	34.6	1.11	37.4	0.927	9.07	58	0.5	< 0.5	59	515	2	12	12	127	1.47	10	< 10	57	< 0.5	4	1.68	11
1227013116	24.4	18.1	-6.25	27.6	0.657	9.24	164	0.4	< 0.5	93	489	3	17	2	66	2.27	4	< 10	66	< 0.5	3	1.64	9
1227013009	58.3	14.9	-43.5	64.0	0.232	8.92	89	0.4	< 0.5	36	307	< 1	12	6	92	2.65	15	< 10	46	< 0.5	6	1.60	8
1227013079	23.4	18.3	-5.18	26.3	0.693	9.03	84	< 0.2	< 0.5	23	404	2	12	3	67	1.29	7	< 10	56	< 0.5	3	0.87	10
1227013282	50.8	16.9	-34.0	55.7	0.302	8.79	786	0.9	< 0.5	136	517	1	11	8	87	2.25	31	< 10	56	< 0.5	5	1.57	7
1227013214	42.2	27.2	-15.0	46.2	0.587	9.15	62	0.6	< 0.5	103	411	3	13	5	166	1.25	11	< 10	47	< 0.5	5	1.17	10
1227013262	37.8	30.9	-6.95	42.0	0.735	9.24	36	0.5	0.5	102	414	3	13	12	96	1.12	9	< 10	48	< 0.5	3	1.47	8
1227032022	69.9	46.0	-23.9	80.5	0.571	9.47	138	1.2	2.0	44	671	< 1	17	5	469	2.21	9	< 10	40	< 0.5	7	1.87	13
1227013285	57.2	18.2	-39.0	62.2	0.292	8.85	130	0.7	0.9	109	519	1	12	8	330	2.05	22	< 10	43	< 0.5	5	1.42	9
1227013302	32.8	12.2	-20.6	36.1	0.338	8.81	788	0.9	< 0.5	247	533	2	10	4	74	2.65	8	< 10	56	< 0.5	3	1.73	8
1227013187	100	13.8	-86.4	106	0.131	8.42	1010	0.5	< 0.5	129	311	1	13	4	52	1.36	15	< 10	31	< 0.5	8	0.82	9
1227013018	38.8	6.99	-31.9	41.3	0.169	8.89	69	0.8	< 0.5	82	426	< 1	11	8	150	3.00	10	< 10	55	< 0.5	5	1.29	10
1227013380	25.3	9.40	-15.9	28.5	0.330	9.10	400	0.6	1.0	68	598	2	12	5	505	2.92	9	< 10	64	< 0.5	5	1.90	10
1227013055	35.0	9.11	-25.9	37.4	0.244	8.95	214	0.7	< 0.5	131	427	< 1	10	8	169	2.83	6	< 10	42	< 0.5	3	1.26	9
1227013310	42.4	28.5	-13.9	45.9	0.620	8.84	128	0.5	1.3	77	576	3	17	6	384	1.68	11	< 10	45	< 0.5	5	1.65	11
1227013188	88.2	21.5	-66.7	94.9	0.226	9.69	96	0.3	< 0.5	49	392	1	14	4	81	1.66	10	< 10	35	< 0.5	2	1.10	10
1227032026	74.9	6.50	-68.4	80.8	0.0803	9.04	78	0.7	0.9	32	396	< 1	12	5	222	1.57	5	< 10	34	< 0.5	6	0.57	11
V860614							1150	4.4	< 0.5	23	135	7	6	2	25	0.57	< 2	< 10	25	< 0.5	4	0.61	4
1228033044	47.2	8.31	-38.9	50.5	0.164	9.00	155	3.6	1.0	23	429	< 1	12	9	304	1.79	15	< 10	52	< 0.5	6	0.53	8
1228033062	42.6	19.6	-22.9	46.5	0.422	9.29	163	3.9	1.0	33	454	< 1	9	17	278	1.59	18	< 10	63	< 0.5	6	0.84	8
1227013266	13.4	24.5	11.0	13.2	1.86	9.45	48	< 0.2	< 0.5	10	440	< 1	16	3	78	1.26	8	< 10	49	< 0.5	< 2	1.06	7
1220713362	41.8	33.6	-8.19	47.8	0.703	8.84	44	0.9	3.3	235	535	3	18	7	1010	1.54	8	< 10	49	< 0.5	< 2	1.88	9
1228033001	60.4	24.0	-36.4	65.8	0.364	9.19	207	2.3	0.8	84	426	< 1	41	27	277	1.74	17	< 10	46	< 0.5	5	1.13	15
1227013059	30.9	-6.36	-37.3	30.3	-0.210	8.70	60	0.4	< 0.5	64	404	< 1	11	3	125	3.06	6	< 10	46	< 0.5	6	1.10	9
1227013418	34.5	19.3	-15.2	37.7	0.513	8.76	106	0.4	0.5	39	497	2	11	5	86	1.92	9	< 10	54	< 0.5	3	1.51	8
1228033070	53.9	34.2	-19.7	62.5	0.548	8.95	848	2.0	2.9	93	811	< 1	27	10	768	1.91	46	< 10	36	< 0.5	< 2	1.50	23
1227032060	114	6.64	-107	119	0.0558	8.68	26	0.8	< 0.5	8	239	1	13	15	39	1.30	4	< 10	18	< 0.5	13	0.51	10

Results

Activation Laboratories Ltd.

Report: A20-01688

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1227032055	351	2.48	< 10	< 1	0.16	13	0.73	0.098	0.038	1.80	< 2	1	40	0.02	2	< 2	< 10	15	< 10	3	16	0.33	1.82
1228033128	171	3.08	< 10	< 1	0.33	13	1.07	0.060	0.053	1.67	< 2	4	27	0.05	1	< 2	< 10	51	< 10	5	12	0.43	1.64
1228035179	449	2.50	< 10	< 1	0.50	15	0.95	0.081	0.045	0.75	2	2	32	0.07	4	< 2	< 10	24	< 10	4	19	0.58	0.72
1228035049	228	2.86	< 10	< 1	0.43	15	1.20	0.088	0.044	1.65	< 2	2	51	0.06	< 1	< 2	< 10	19	< 10	3	17	0.17	1.60
1228033173	249	5.28	< 10	2	0.29	< 10	1.50	0.079	0.064	4.22	< 2	5	35	0.03	2	< 2	< 10	71	< 10	8	10	0.33	4.11
1233001034	276	2.24	< 10	< 1	0.40	18	1.05	0.068	0.050	0.18	< 2	2	36	0.11	1	< 2	< 10	31	< 10	3	13	0.26	0.17
1228033172	213	6.10	< 10	2	0.23	< 10	1.58	0.051	0.061	4.76	< 2	5	22	0.04	2	< 2	< 10	73	< 10	8	10	0.28	4.91
1227032051	455	2.68	< 10	< 1	0.15	14	0.77	0.067	0.038	1.87	2	1	26	0.04	< 1	< 2	< 10	18	< 10	3	17	0.32	1.78
1233001114	282	2.14	< 10	< 1	0.36	17	0.94	0.130	0.047	0.53	< 2	2	68	0.08	3	< 2	< 10	27	< 10	3	10	0.32	0.51
V860613	12	2.95	< 10	< 1	0.24	16	0.43	0.158	0.045	0.04	< 2	3	47	0.28	2	< 2	< 10	57	< 10	17	11		
1227013168	203	1.94	< 10	< 1	0.31	13	1.20	0.055	0.038	0.50	< 2	2	25	0.01	< 1	< 2	< 10	17	< 10	2	10	0.37	0.49
1227013171	254	2.08	< 10	< 1	0.22	12	1.06	0.061	0.039	0.93	< 2	1	29	0.02	3	< 2	< 10	16	< 10	2	12	0.34	0.91
1227013224	176	2.13	< 10	< 1	0.26	15	0.76	0.106	0.043	1.27	< 2	1	71	0.01	1	< 2	< 10	14	< 10	2	13	0.46	1.22
1227013116	340	2.44	< 10	< 1	0.28	15	0.82	0.237	0.043	0.93	< 2	1	126	0.06	2	< 2	< 10	18	< 10	2	15	0.38	0.90
1227013009	155	2.48	< 10	< 1	0.27	14	1.13	0.116	0.043	2.07	< 2	1	115	< 0.01	< 1	< 2	< 10	10	< 10	2	19	0.29	2.09
1227013079	219	2.05	< 10	< 1	0.33	14	0.87	0.048	0.042	0.93	< 2	1	23	0.01	< 1	< 2	< 10	14	< 10	2	11	0.28	0.86
1227013282	239	2.80	< 10	< 1	0.28	14	0.84	0.123	0.039	1.97	< 2	< 1	114	0.01	< 1	< 2	< 10	10	< 10	2	15	0.40	1.82
1227013214	231	2.40	< 10	< 1	0.29	13	0.82	0.077	0.041	1.65	< 2	2	41	0.02	< 1	< 2	< 10	17	< 10	2	13	0.30	1.51
1227013262	222	2.21	< 10	< 1	0.22	11	0.75	0.062	0.039	1.45	< 2	1	29	0.02	2	< 2	< 10	14	< 10	3	13	0.41	1.37
1227032022	140	2.94	< 10	< 1	0.18	25	1.65	0.172	0.068	2.76	< 2	3	66	< 0.01	3	< 2	< 10	23	< 10	4	25	0.51	2.63
1227013285	159	2.61	< 10	< 1	0.30	13	1.04	0.087	0.037	2.13	< 2	1	77	0.01	1	< 2	< 10	9	< 10	2	21	0.33	2.03
1227013302	128	2.39	< 10	< 1	0.28	14	0.73	0.171	0.040	1.24	< 2	1	118	0.05	2	< 2	< 10	11	< 10	2	17	0.20	1.18
1227013187	175	3.78	< 10	< 1	0.28	14	0.84	0.038	0.040	3.77	< 2	< 1	30	< 0.01	5	< 2	< 10	7	< 10	2	21	0.29	3.46
1227013018	132	2.80	< 10	< 1	0.21	17	0.95	0.107	0.050	1.40	< 2	1	175	< 0.01	2	< 2	< 10	13	< 10	2	17	0.11	1.35
1227013380	167	2.36	< 10	< 1	0.32	16	0.70	0.166	0.042	1.00	< 2	1	117	0.07	< 1	< 2	< 10	15	< 10	2	19	0.20	0.93
1227013055	101	2.85	< 10	< 1	0.16	13	0.93	0.086	0.042	1.30	< 2	1	155	< 0.01	2	< 2	< 10	12	< 10	2	18	0.13	1.22
1227013310	276	2.66	< 10	< 1	0.25	14	0.88	0.124	0.042	1.60	< 2	1	92	0.02	< 1	< 2	< 10	15	< 10	2	14	0.53	1.50
1227013188	199	3.55	< 10	< 1	0.28	18	1.13	0.047	0.041	3.22	< 2	< 1	42	< 0.01	2	< 2	< 10	8	< 10	2	16	0.28	3.10
1227032026	194	2.57	< 10	< 1	0.15	26	1.12	0.098	0.059	2.73	< 2	2	41	< 0.01	2	< 2	< 10	13	< 10	3	29	0.08	2.64
V860614	9	1.49	< 10	< 1	0.07	< 10	0.12	0.140	0.029	0.02	< 2	1	21	0.27	3	< 2	< 10	35	< 10	8	14		
1228033044	175	2.66	< 10	< 1	0.26	12	1.29	0.052	0.038	1.72	< 2	< 1	35	< 0.01	5	< 2	< 10	9	< 10	1	11	0.14	1.65
1228033062	95	2.36	< 10	< 1	0.38	11	1.23	0.046	0.039	1.60	< 2	< 1	22	< 0.01	2	< 2	< 10	11	< 10	2	13	0.24	1.52
1227013266	404	1.97	< 10	< 1	0.20	12	1.06	0.060	0.040	0.45	< 2	2	19	0.02	3	< 2	< 10	19	< 10	2	12	0.38	0.43
1220713362	441	2.42	< 10	< 1	0.21	14	0.76	0.130	0.041	1.70	< 2	1	87	0.01	< 1	< 2	< 10	14	< 10	3	15	0.47	1.56
1228033001	249	3.37	< 10	< 1	0.29	19	1.51	0.045	0.078	2.10	< 2	2	34	0.02	2	< 2	< 10	21	< 10	3	18	0.38	2.15
1227013059	83	2.58	< 10	< 1	0.17	11	1.02	0.084	0.035	1.04	< 2	1	135	< 0.01	< 1	< 2	< 10	12	< 10	1	17	0.05	0.99
1227013418	188	2.30	< 10	< 1	0.34	16	0.74	0.080	0.041	1.28	< 2	1	59	0.06	2	< 2	< 10	13	< 10	2	21	0.34	1.23
1228033070	130	4.84	< 10	< 1	0.25	11	1.37	0.050	0.056	2.76	< 2	5	23	0.08	3	< 2	< 10	65	< 10	7	14	0.29	2.04
1227032060	236	3.73	< 10	< 1	0.18	26	0.87	0.076	0.060	4.08	3	1	37	< 0.01	3	< 2	< 10	11	< 10	3	36	0.10	3.89

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas								0.3	< 0.5	68	972	1	22	85	120	6.05	241	< 10	701	0.9	3	0.13	12
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.4	< 0.5	71	1000	1	23	89	123	6.30	224	< 10	781	0.9	3	0.15	12
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.4	< 0.5	75	1010	2	22	88	122	6.62	242	< 10	775	0.9	3	0.15	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
BaSO4 Meas																							
BaSO4 Cert																							
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GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
NBM-1 (slight fzz)		42.9				8.33																	

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Meas																							
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.4				7.59																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.5																					
NBM-1 (slight fzz) Cert		46.6																					
OREAS 922 (AQUA REGIA) Meas								1.0	< 0.5	2250	747	< 1	33	55	252	2.59	4		79	0.8	9	0.42	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2230	748	< 1	34	55	259	2.59	3		79	0.8	8	0.42	18
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								1.2	< 0.5	2320	745	< 1	33	54	259	2.72	6		84	0.8	8	0.44	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								2.2	< 0.5	4530	832	< 1	32	71	331	2.62	5		67	0.7	22	0.43	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 96 (Aqua Regia) Meas								10.7		> 10000				82	412						51		47
Oreas 96 (Aqua Regia) Cert								11.50		39100. 00				100	448						27.9		49.2
Oreas 96 (Aqua Regia) Meas								11.2		> 10000				83	412						72		47
Oreas 96 (Aqua Regia) Cert								11.50		39100. 00				100	448						27.9		49.2
OREAS 218 Meas								536															
OREAS 218 Cert								531															
OREAS 218 Meas								532															
OREAS 218 Cert								531															
OREAS 218 Meas								539															
OREAS 218 Cert								531															
OREAS 218 Meas								536															
OREAS 218 Cert								531															
OREAS 218 Meas								543															
OREAS 218 Cert								531															
Oreas 621 (Aqua Regia) Meas								69.3	272	3690	511	13	22	> 5000	> 10000	1.60	79			0.6	6	1.37	30

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								71.1	270	3590	508	14	22	> 5000	> 10000	1.59	76			0.6	4	1.69	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								71.8	271	3730	515	14	24	> 5000	> 10000	1.65	81			0.6	6	1.50	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 45f (Aqua Regia) Meas										356	168	1	222	8	27	6.64			133	1.0	< 2	0.07	38
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										355	164	1	224	11	27	6.62			137	1.0	4	0.07	37
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										373	172	1	225	10	27	7.04			136	1.1	7	0.07	39
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 238 (Fire Assay) Meas							3010																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3080																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3160																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3110																
OREAS 238 (Fire Assay) Cert							3030																
GS316-3 Meas																							
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1229056007 Orig								2.7	1.4	175	623	1	53	5	206	1.41	7	< 10	52	< 0.5	5	2.48	13
1229056007 Dup								2.3	1.0	178	638	1	54	4	214	1.45	9	< 10	52	< 0.5	5	2.51	13

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1229056011 Orig							151																
1229056011 Dup							140																
1228032034 Orig							257																
1228032034 Dup							228																
1228032223 Orig								1.2	0.6	167	312	3	12	5	195	1.45	20	< 10	44	< 0.5	< 2	0.78	13
1228032223 Dup								1.0	0.6	167	316	3	13	4	203	1.45	22	< 10	45	< 0.5	2	0.78	12
1228030109 Orig																							
1228030109 Dup																							
1228035078 Orig								0.4	< 0.5	46	584	2	18	3	169	1.81	10	< 10	60	< 0.5	< 2	1.15	12
1228035078 Dup								0.4	< 0.5	44	570	2	18	2	164	1.78	11	< 10	61	< 0.5	3	1.12	11
1233001023 Orig																							
1233001023 Dup																							
1227036043 Orig							177																
1227036043 Dup							171																
1227032003 Orig	29.1	19.8	-9.21	32.5	0.611																		
1227032003 Dup	29.1	19.8	-9.22	32.5	0.611																		
1227017118 Orig							102																
1227017118 Dup							104																
1227017001 Orig								1.4	0.8	17	579	< 1	10	60	167	1.61	19	13	53	< 0.5	4	1.37	9
1227017001 Dup								1.6	< 0.5	18	567	< 1	10	57	163	1.58	19	13	48	< 0.5	3	1.34	7
1227017063 Orig							243																
1227017063 Dup							227																
V860611 Orig								2.5	< 0.5	61	386	11	16	7	56	1.47	< 2	< 10	80	< 0.5	< 2	1.35	17
V860611 Dup								2.4	< 0.5	60	382	11	15	7	56	1.46	< 2	< 10	79	< 0.5	< 2	1.34	16
1226001279 Orig						8.73																	
1226001279 Dup						8.72																	
1227036093 Orig																							
1227036093 Dup																							
1227017257 Orig							135																
1227017257 Dup							140																
1227036087 Orig								1.1	1.1	105	564	6	42	16	308	1.83	17	< 10	32	< 0.5	3	1.71	12
1227036087 Dup								1.0	0.9	101	549	5	34	10	304	1.77	18	< 10	35	< 0.5	2	1.67	13
1226001185 Orig																							
1226001185 Dup																							
1227013507 Orig	37.0	34.7	-2.23	41.3	0.840																		
1227013507 Dup	37.0	34.8	-2.20	41.3	0.841																		
1226001197 Orig								1.1	3.4	66	647	1	22	20	817	2.20	16	< 10	34	< 0.5	4	1.65	12
1226001197 Dup								1.1	3.5	65	642	1	22	20	802	2.28	18	< 10	37	< 0.5	5	1.66	12
1228033122 Orig							108																
1228033122 Dup							111																
1228033172 Orig																							
1228033172 Dup																							
1227013224 Orig							64	0.5	< 0.5	59	521	2	12	13	128	1.47	10	< 10	57	< 0.5	5	1.69	11
1227013224 Dup							51	0.5	< 0.5	58	509	3	11	12	126	1.46	9	< 10	57	< 0.5	3	1.67	10
1227013262 Orig																							
1227013262 Dup																							
1227013310 Orig								0.5	1.3	77	580	3	16	6	386	1.69	12	< 10	45	< 0.5	5	1.66	11
1227013310 Dup								0.5	1.2	77	572	3	17	6	383	1.68	10	< 10	45	< 0.5	5	1.63	11
1227032026 Orig																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1227032026 Dup																							
1227013266 Orig							46																
1227013266 Dup							49																
1228033001 Orig							174																
1228033001 Dup							240																
1228033070 Orig						8.96																	
1228033070 Dup						8.94																	
1227032060 Orig	114	6.63	-107	119	0.0557																		
1227032060 Dup	114	6.66	-107	119	0.0559																		
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
GXR-6 Meas	80	5.42	20	2	1.11	< 10	0.38	0.112	0.033	0.01	4	19	28		< 1	< 2	< 10	168	< 10	5	12			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
GXR-6 Meas	83	5.57	20	1	1.13	< 10	0.40	0.133	0.034	0.01	4	20	33		< 1	< 2	< 10	169	< 10	5	7			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
GXR-6 Meas	86	5.53	20	2	1.21	10	0.42	0.140	0.035	0.01	4	21	34		< 1	< 2	< 10	177	< 10	5	10			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
BaSO4 Meas																							14.0	
BaSO4 Cert																								14.0
BaSO4 Meas																								13.9
BaSO4 Cert																								14.0
BaSO4 Meas																								14.0
BaSO4 Cert																								14.0
BaSO4 Meas																								13.9
BaSO4 Cert																								14.0
BaSO4 Meas																								13.7
BaSO4 Cert																								14.0
BaSO4 Meas																								13.8
BaSO4 Cert																								14.0
SGR-1b Meas																							27.8	1.57
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.6	1.55
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.7	1.54
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.4	1.54
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.5	1.56
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.5	1.52
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.5	1.55
SGR-1b Cert																							28	1.53
GS311-4 Meas																							1.10	0.55
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.11	0.54
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.12	0.55
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.10	0.54
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.11	0.54
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.11	0.53
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.11	0.53
GS311-4 Cert																							1.11	0.54
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz)																								

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	49	5.04	< 10		0.50	39	1.34	0.032	0.062	0.37	2	4	16			< 2	< 10	37	< 10	22	22		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	50	5.06	< 10		0.49	39	1.35	0.033	0.061	0.37	3	4	17			< 2	< 10	36	< 10	21	11		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	50	5.19	< 10		0.54	41	1.40	0.035	0.064	0.38	2	4	17			< 2	< 10	38	< 10	23	23		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 923 (AQUA REGIA) Meas	45	5.85	< 10		0.44	37	1.44		0.060	0.68	3	4	15			< 2	< 10	36	< 10	20	31		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 96 (Aqua Regia) Meas										3.88	6												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										3.74	6												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
Oreas 621 (Aqua Regia) Meas	30	3.25	10	4	0.39	19	0.44	0.154	0.034	4.25	106	2	17			< 2	< 10	13	< 10	8	66		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	31	3.24	10	4	0.39	20	0.44	0.158	0.033	4.64	112	2	18			< 2	< 10	13	< 10	8	66		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
Regia) Cert																								
Oreas 621 (Aqua Regia) Meas	38	3.30	10	4	0.41	20	0.45	0.164	0.034	4.56	115	3	18			< 2	< 10	14	< 10	8	68			
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0			
OREAS 45f (Aqua Regia) Meas	365	14.2	20	< 1	0.11	11	0.18	0.046	0.021	0.02		27	14	0.13		< 2	< 10	204		5	19			
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0			
OREAS 45f (Aqua Regia) Meas	364	14.4	20	< 1	0.11	11	0.18	0.049	0.021	0.02		27	15	0.10		< 2	< 10	205		5	15			
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0			
OREAS 45f (Aqua Regia) Meas	376	14.5	20	< 1	0.12	11	0.19	0.051	0.022	0.02		28	15	0.14		< 2	< 10	213		5	20			
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0			
OREAS 238 (Fire Assay) Meas																								
OREAS 238 (Fire Assay) Cert																								
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OREAS 238 (Fire Assay) Cert																								
OREAS 238 (Fire Assay) Meas																								
OREAS 238 (Fire Assay) Cert																								
GS316-3 Meas																							0.06	0.33
GS316-3 Cert																							0.0600	0.340
GS316-3 Meas																							0.06	0.32
GS316-3 Cert																							0.0600	0.340
GS316-3 Meas																							0.05	0.32
GS316-3 Cert																							0.0600	0.340
GS316-3 Meas																							0.05	0.33
GS316-3 Cert																							0.0600	0.340
GS316-3 Meas																							0.05	0.33
GS316-3 Cert																							0.0600	0.340
GS316-3 Meas																							0.06	0.33
GS316-3 Cert																							0.0600	0.340
GS316-3 Meas																							0.06	0.32
GS316-3 Cert																							0.0600	0.340
GS316-3 Meas																							0.06	0.32
GS316-3 Cert																							0.0600	0.340
1229056007 Orig	226	2.94	< 10	< 1	0.23	16	1.32	0.062	0.058	2.22	< 2	2	47	< 0.01	2	< 2	< 10	16	< 10	3	19			
1229056007 Dup	229	3.04	< 10	< 1	0.24	16	1.34	0.063	0.059	2.25	< 2	2	47	< 0.01	3	< 2	< 10	16	< 10	3	19			
1229056011 Orig																							1.36	0.67
1229056011 Dup																							1.36	0.64
1228032034 Orig																								
1228032034 Dup																								
1228032223 Orig	157	2.81	< 10	< 1	0.25	14	1.22	0.027	0.040	1.35	< 2	< 1	17	< 0.01	< 1	< 2	< 10	13	< 10	2	7	0.21	1.25	
1228032223 Dup	153	2.86	< 10	< 1	0.26	15	1.22	0.025	0.040	1.34	2	< 1	18	< 0.01	2	< 2	< 10	13	< 10	2	7	0.20	1.27	

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
1228030109 Orig																							0.28	1.27
1228030109 Dup																							0.28	1.28
1228035078 Orig	408	2.48	< 10	< 1	0.32	16	1.23	0.123	0.048	1.27	2	2	63	0.04	< 1	< 2	< 10	19	< 10	3	18			
1228035078 Dup	402	2.41	< 10	< 1	0.31	16	1.20	0.122	0.046	1.23	< 2	2	62	0.04	1	< 2	< 10	19	< 10	3	17			
1233001023 Orig																							0.35	0.43
1233001023 Dup																							0.34	0.41
1227036043 Orig																								
1227036043 Dup																								
1227032003 Orig																								
1227032003 Dup																								
1227017118 Orig																							0.55	1.13
1227017118 Dup																							0.55	1.14
1227017001 Orig	80	2.02	< 10	< 1	0.44	14	1.16	0.042	0.040	2.08	< 2	< 1	23	< 0.01	2	< 2	< 10	10	< 10	2	11			
1227017001 Dup	81	1.98	< 10	< 1	0.43	14	1.12	0.040	0.039	2.05	< 2	< 1	23	< 0.01	2	< 2	< 10	10	< 10	2	11			
1227017063 Orig																							0.27	1.48
1227017063 Dup																							0.27	1.45
V860611 Orig	12	3.80	< 10	< 1	0.31	12	0.69	0.185	0.069	0.07	< 2	6	34	0.43	5	< 2	< 10	120	< 10	17	12			
V860611 Dup	12	3.75	< 10	< 1	0.30	12	0.68	0.184	0.069	0.07	< 2	6	33	0.43	5	< 2	< 10	119	< 10	16	12			
1226001279 Orig																								
1226001279 Dup																								
1227036093 Orig																							0.23	1.80
1227036093 Dup																							0.22	1.79
1227017257 Orig																								
1227017257 Dup																								
1227036087 Orig	401	2.80	< 10	< 1	0.63	25	1.40	0.140	0.069	1.81	< 2	3	100	0.07	2	< 2	< 10	33	< 10	4	23			
1227036087 Dup	388	2.69	< 10	< 1	0.61	25	1.37	0.135	0.067	1.75	< 2	3	99	0.07	2	< 2	< 10	32	< 10	3	23			
1226001185 Orig																							0.24	0.67
1226001185 Dup																							0.24	0.67
1227013507 Orig																								
1227013507 Dup																								
1226001197 Orig	316	2.91	< 10	< 1	0.19	17	1.21	0.152	0.050	2.68	2	1	76	< 0.01	< 1	< 2	< 10	11	< 10	3	20	0.37	2.62	
1226001197 Dup	309	2.86	< 10	< 1	0.20	17	1.23	0.155	0.050	2.75	3	1	80	< 0.01	2	< 2	< 10	11	< 10	3	20	0.38	2.63	
1228033122 Orig																								
1228033122 Dup																								
1228033172 Orig																							0.28	4.81
1228033172 Dup																							0.28	5.01
1227013224 Orig	178	2.14	< 10	< 1	0.26	15	0.77	0.107	0.043	1.27	< 2	1	71	0.01	1	< 2	< 10	14	< 10	2	13			
1227013224 Dup	174	2.11	< 10	< 1	0.26	15	0.75	0.105	0.043	1.28	< 2	1	71	0.01	1	< 2	< 10	14	< 10	2	13			
1227013262 Orig																							0.41	1.39
1227013262 Dup																							0.41	1.36
1227013310 Orig	271	2.68	< 10	< 1	0.25	14	0.88	0.125	0.042	1.61	< 2	1	92	0.02	< 1	< 2	< 10	15	12	2	15			
1227013310 Dup	282	2.63	< 10	< 1	0.24	14	0.87	0.124	0.042	1.59	< 2	1	91	0.02	< 1	< 2	< 10	15	< 10	2	14			
1227032026 Orig																							0.07	2.65
1227032026 Dup																							0.08	2.63
1227013266 Orig																								
1227013266 Dup																								
1228033001 Orig																								
1228033001 Dup																								
1228033070 Orig																								
1228033070 Dup																								
1227032060 Orig																							0.10	3.89

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1227032060 Dup																						0.10	3.88
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.009	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		



Report No.: A20-01691
Report Date: 10-Mar-20
Date Submitted: 11-Feb-20
Your Reference: 2020 January Check Assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

85 Pulp samples were submitted for analysis.

Table with 3 columns: Analytical package(s) requested, Testing Date, and details. Rows include 1A2-50-Tbay, 1E3-Tbay NewGold, QOP AA-Au (Au - Fire Assay AA), and QOP AquaGeo (Aqua Regia ICPOES).

REPORT A20-01691

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

Footnote: Sample V860615, V860618, V860619 are insufficient

CERTIFIED BY:

<original signed by>

[Handwritten signature]

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
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TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Report No.: A20-01691
Report Date: 10-Mar-20
Date Submitted: 11-Feb-20
Your Reference: 2020 January Check Assays

**New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada**

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

85 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek	Acid Base Accounting	2020-02-25 21:45:10
4F-C, S	Infrared	2020-02-25 21:47:26

REPORT **A20-01691**

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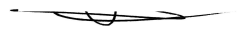
Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

Footnote: Sample V860615, V860618, V860619 are insufficient

CERTIFIED BY:
<original signed by>



Emmanuel Esemé, Ph.D.
Quality Control Coordinator

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41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
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Results

Activation Laboratories Ltd.

Report: A20-01691

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1227023532	27.3	6.23	-21.1	30.9	0.201	9.02	347	1.1	< 0.5	281	395	5	17	29	64	2.83	7	< 10	46	< 0.5	5	0.89	4
1228034092	86.2	13.8	-72.5	94.6	0.145	8.76	159	3.5	2.3	268	489	2	21	6	568	1.78	31	< 10	17	< 0.5	11	0.84	17
1228037163	35.7	29.5	-6.24	39.8	0.741	8.88	539	1.2	< 0.5	201	574	< 1	12	3	112	2.45	16	< 10	55	< 0.5	< 2	1.15	8
1228036064	50.3	26.1	-24.2	56.3	0.463	9.27	82	1.5	< 0.5	88	596	3	17	6	102	2.13	15	< 10	37	< 0.5	6	1.39	10
1228034071	81.1	10.2	-70.9	86.7	0.118	8.77	92	1.1	0.7	25	327	< 1	9	7	169	1.42	9	< 10	< 10	< 0.5	3	0.57	8
1228034108	34.5	18.7	-15.8	38.3	0.488	9.16	117	0.8	< 0.5	45	683	< 1	22	12	144	2.48	21	14	62	< 0.5	< 2	1.44	11
1228034060	61.4	11.5	-50.0	66.8	0.172	8.83	57	0.7	1.6	23	508	< 1	19	4	403	1.89	20	< 10	31	< 0.5	4	0.95	9
1227023576	45.8	10.5	-35.4	50.2	0.208	9.00	189	1.3	< 0.5	379	446	7	13	3	95	2.96	5	< 10	47	< 0.5	6	0.89	8
1227034011	27.4	25.1	-2.25	30.0	0.838	9.34	83	0.3	< 0.5	55	308	2	11	4	90	2.69	9	< 10	50	< 0.5	3	1.70	8
1227023494	40.6	16.5	-24.1	44.7	0.370	9.15	83	0.3	< 0.5	40	316	1	14	7	104	3.32	9	< 10	48	< 0.5	2	1.38	11
1228034063	70.2	7.84	-62.4	76.9	0.102	8.98	67	1.1	1.6	66	423	< 1	20	5	426	1.53	33	< 10	26	< 0.5	4	1.04	10
1227034020	40.2	7.37	-32.8	44.4	0.166	9.26	97	0.4	< 0.5	51	390	< 1	14	< 2	158	2.96	18	< 10	43	< 0.5	< 2	0.97	9
1228034001	52.9	17.6	-35.3	57.6	0.306	9.01	64	1.1	0.5	53	604	1	19	34	143	1.81	13	< 10	38	< 0.5	4	1.01	10
1228036106	24.2	60.4	36.2	29.7	2.03	9.08	147	0.8	1.3	79	780	< 1	89	< 2	344	2.49	12	< 10	67	< 0.5	< 2	2.46	16
1434001020	10.7	73.4	62.7	16.5	4.44	8.72	32	0.3	< 0.5	28	1060	< 1	46	< 2	149	2.79	9	< 10	56	< 0.5	4	2.99	21
1227034012	22.0	22.3	0.367	24.8	0.901	9.41	73	0.2	< 0.5	33	272	2	9	< 2	73	2.99	7	< 10	57	< 0.5	3	1.80	7
1228036075	117	76.8	-40.2	133	0.576	8.76	289	3.2	2.0	149	993	< 1	126	6	481	2.80	35	< 10	19	< 0.5	7	2.93	34
V860618							113																
1228037125	29.1	20.6	-8.43	33.1	0.624	9.35	98	0.7	3.1	50	714	< 1	11	9	857	2.97	9	< 10	60	< 0.5	5	1.65	8
1228037220	43.0	12.9	-30.1	47.2	0.273	9.12	53	0.5	0.8	62	603	3	12	6	117	2.35	8	< 10	37	< 0.5	5	1.28	9
1228037010	55.2	19.7	-35.5	61.3	0.321	9.21	97	0.5	< 0.5	63	274	< 1	12	5	96	2.14	13	< 10	28	< 0.5	2	1.12	9
1227022292	25.2	14.1	-11.1	29.4	0.480	8.99	200	0.4	< 0.5	78	295	1	16	3	57	2.36	7	13	60	< 0.5	4	1.28	7
1228037107	36.6	18.6	-18.0	40.4	0.459	9.30	62	0.6	0.8	41	462	< 1	9	< 2	198	2.96	13	< 10	50	< 0.5	3	1.06	7
1228037100	45.4	12.1	-33.3	51.1	0.236	9.25	49	0.9	< 0.5	141	375	2	9	< 2	102	2.94	14	< 10	36	< 0.5	3	1.42	8
1228037041	23.8	83.0	59.1	29.4	2.82	9.48	33	< 0.2	< 0.5	49	541	< 1	107	5	83	2.46	8	< 10	76	0.6	< 2	3.29	16
1228037169	51.7	10.8	-40.8	57.3	0.189	8.75	409	1.4	0.6	244	505	1	13	4	121	2.38	22	< 10	26	< 0.5	< 2	1.15	9
1227017404	12.5	18.1	5.59	16.2	1.11	9.28	23	< 0.2	0.9	17	743	< 1	14	17	306	3.15	6	< 10	97	< 0.5	< 2	1.82	10
1227022271	27.5	19.4	-8.13	31.5	0.614	8.99	420	0.6	< 0.5	113	261	2	16	4	82	1.72	8	11	43	< 0.5	< 2	1.37	9
1228037130	41.0	8.63	-32.4	45.0	0.192	9.09	115	1.1	1.3	41	548	< 1	12	2	318	3.45	11	< 10	42	< 0.5	5	1.67	8
1228037021	55.6	14.1	-41.5	60.6	0.233	9.18	74	0.6	< 0.5	37	247	< 1	9	2	83	1.76	12	< 10	22	< 0.5	4	0.68	8
1228034088	82.0	14.0	-68.0	89.7	0.156	8.71	535	2.4	0.7	49	444	1	25	6	180	1.57	26	< 10	13	< 0.5	6	0.87	18
1227017418	39.0	23.6	-15.3	43.2	0.547	9.24	64	0.5	< 0.5	22	733	1	14	22	151	3.11	19	< 10	45	< 0.5	< 2	2.40	10
1227017435	48.7	28.8	-20.0	54.2	0.530	9.23	87	1.7	< 0.5	29	733	1	17	15	89	3.63	24	< 10	36	0.6	< 2	2.79	11
1228034013	73.4	22.0	-51.4	80.2	0.274	9.02	113	1.3	0.7	87	551	3	24	12	152	1.65	18	< 10	20	< 0.5	4	1.07	12
1228034020	79.1	9.25	-69.8	83.9	0.110	8.72	330	1.1	0.6	46	289	2	20	7	133	1.15	10	< 10	11	< 0.5	3	0.56	10
V860619							905																

Results

Activation Laboratories Ltd.

Report: A20-01691

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1228037163	155	2.39	< 10	< 1	0.32	19	1.09	0.180	0.043	1.29	< 2	1	76	< 0.01	1	< 2	< 10	12	< 10	2	10	0.21	1.30
1228036064	166	2.77	< 10	< 1	0.37	12	1.34	0.118	0.043	1.92	< 2	2	53	0.01	2	< 2	< 10	23	< 10	4	14	0.33	1.84
1228034071	130	2.95	< 10	< 1	0.52	12	0.40	0.070	0.038	3.08	< 2	< 1	17	< 0.01	< 1	< 2	< 10	7	< 10	2	16	0.16	2.83
1228034108	319	2.63	< 10	< 1	0.34	27	1.25	0.168	0.066	1.34	2	2	59	0.01	< 1	< 2	< 10	23	< 10	3	4	0.25	1.25
1228034060	334	2.92	< 10	< 1	0.30	12	0.83	0.150	0.040	2.31	< 2	1	51	0.01	2	< 2	< 10	16	< 10	2	20	0.22	2.18
1227023576	249	3.71	< 10	< 1	0.30	12	1.86	0.097	0.036	1.74	3	1	75	< 0.01	1	< 2	< 10	12	< 10	2	21	0.21	1.64
1227034011	152	2.11	< 10	< 1	0.23	15	1.39	0.177	0.039	1.10	< 2	< 1	100	< 0.01	< 1	< 2	< 10	9	< 10	3	12	0.33	0.98
1227023494	139	2.55	< 10	< 1	0.36	14	1.21	0.181	0.039	1.47	< 2	1	171	< 0.01	2	< 2	< 10	12	< 10	3	11	0.17	1.46
1228034063	349	2.95	< 10	< 1	0.34	14	0.67	0.105	0.040	2.53	< 2	1	38	< 0.01	3	< 2	< 10	12	< 10	3	18	0.31	2.51
1227034020	213	2.56	< 10	< 1	0.27	14	1.96	0.147	0.038	1.48	2	< 1	65	0.03	< 1	< 2	< 10	12	< 10	2	6	0.17	1.45
1228034001	291	2.47	< 10	< 1	0.38	15	0.98	0.122	0.042	2.02	< 2	1	45	< 0.01	2	< 2	< 10	14	< 10	3	19	0.27	1.88
1228036106	432	2.95	< 10	< 1	0.26	19	1.98	0.126	0.058	1.08	< 2	3	102	0.03	3	< 2	< 10	30	< 10	3	3	0.89	0.97
1434001020	250	5.90	< 10	< 1	0.37	< 10	1.70	0.079	0.058	0.51	3	10	51	0.17	< 1	< 2	< 10	134	< 10	11	7	0.97	0.54
1227034012	96	1.76	< 10	< 1	0.28	16	1.35	0.219	0.040	0.91	< 2	< 1	123	0.01	< 1	< 2	< 10	10	< 10	2	3	0.26	0.81
1228036075	301	6.52	< 10	2	0.36	12	2.67	0.082	0.083	4.46	2	10	107	0.11	5	< 2	< 10	118	< 10	9	16	1.09	4.35
V860618																							
1228037125	109	2.31	< 10	< 1	0.31	14	1.16	0.237	0.037	1.07	< 2	1	103	< 0.01	1	< 2	< 10	13	< 10	3	6	0.27	1.08
1228037220	153	2.36	< 10	< 1	0.36	18	0.78	0.200	0.052	1.61	< 2	1	118	0.02	< 1	< 2	< 10	16	< 10	3	4	0.20	1.54
1228037010	129	2.54	< 10	< 1	0.38	13	1.48	0.099	0.038	2.11	< 2	1	41	0.02	4	< 2	< 10	10	< 10	2	13	0.26	2.00
1227022292	288	2.17	< 10	< 1	0.35	15	0.83	0.199	0.040	1.11	2	1	131	0.01	< 1	< 2	< 10	17	< 10	3	8	0.28	0.96
1228037107	63	2.54	< 10	< 1	0.28	12	1.97	0.083	0.037	1.39	< 2	< 1	43	< 0.01	2	< 2	< 10	11	< 10	2	11	0.26	1.32
1228037100	86	2.31	< 10	< 1	0.37	15	1.53	0.121	0.036	1.63	< 2	1	71	0.02	1	< 2	< 10	12	< 10	2	6	0.20	1.67
1228037041	299	2.77	< 10	< 1	0.26	28	2.62	0.073	0.148	0.94	< 2	4	57	0.03	< 1	< 2	< 10	35	< 10	5	3	1.01	0.96
1228037169	96	2.66	< 10	< 1	0.36	18	0.88	0.171	0.044	1.75	< 2	1	76	0.03	1	< 2	< 10	12	< 10	2	7	0.13	1.87
1227017404	138	2.34	< 10	< 1	0.43	25	1.25	0.143	0.057	0.53	< 2	2	87	0.07	3	< 2	< 10	21	< 10	4	11	0.22	0.53
1227022271	307	1.95	< 10	< 1	0.30	14	0.67	0.106	0.034	1.03	< 2	1	75	0.02	< 1	< 2	< 10	14	< 10	2	8	0.36	1.03
1228037130	147	2.13	< 10	< 1	0.22	12	1.04	0.257	0.035	1.36	< 2	1	105	< 0.01	3	< 2	< 10	11	< 10	2	3	0.13	1.47
1228037021	79	2.15	< 10	< 1	0.28	11	1.45	0.058	0.035	1.87	< 2	< 1	24	0.01	2	< 2	< 10	9	< 10	2	6	0.19	1.98
1228034088	134	3.23	< 10	< 1	0.44	12	0.76	0.066	0.045	2.90	< 2	2	27	0.04	3	< 2	< 10	28	< 10	4	14	0.23	2.93
1227017418	137	2.26	< 10	< 1	0.39	21	1.16	0.107	0.052	1.42	< 2	2	64	0.04	2	< 2	< 10	21	< 10	3	6	0.32	1.41
1227017435	164	2.47	< 10	< 1	0.43	24	1.15	0.190	0.053	1.72	< 2	2	130	0.04	2	< 2	< 10	24	< 10	4	3	0.37	1.77
1228034013	371	3.13	< 10	< 1	0.32	13	1.06	0.080	0.041	2.57	3	2	32	< 0.01	< 1	< 2	< 10	17	< 10	3	13	0.63	2.62
1228034020	360	2.90	< 10	< 1	0.36	12	0.41	0.056	0.039	2.78	2	< 1	18	< 0.01	1	< 2	< 10	9	< 10	2	13	0.16	2.74
V860619																							

Analyte Symbol	SO4
Unit Symbol	%
Lower Limit	0.05
Method Code	SO4
1227013424	
1227032032	
1228033074	
1227013468	
1228033014	
1228033091	
1227013427	
1227013479	
1228033093	
1227013489	
V860615	
1227022216	
1226001083	
1227023642	
1233001256	
1227023550	
1227023589	
1226001075	
1227023477	
1226001037	
1228037057	
1226001023	
1227023476	
1226001070	
1227023621	
1227023484	
1227023521	
1227023433	
V860616	
1227022228	
1227022136	
1227017057	
1227022036	
1233001144	
1227022239	
1233001134	
1227017038	
1227022129	
1226001103	
1227022155	
1227022044	
1227017039	
1227017048	
1227022109	
1227023648	
1227022033	
1227022030	
V860617	
1227022302	
1227023532	
1228034092	

Analyte Symbol	SO4
Unit Symbol	%
Lower Limit	0.05
Method Code	SO4
1228037163	
1228036064	
1228034071	
1228034108	
1228034060	
1227023576	
1227034011	
1227023494	
1228034063	
1227034020	
1228034001	
1228036106	
1434001020	
1227034012	
1228036075	1.82
V860618	
1228037125	
1228037220	
1228037010	
1227022292	
1228037107	
1228037100	
1228037041	
1228037169	
1227017404	
1227022271	
1228037130	
1228037021	
1228034088	
1227017418	
1227017435	
1228034013	
1228034020	
V860619	

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas								0.3	< 0.5	67	1060	1	26	95	127	6.84	205	< 10	752	0.9	2	0.14	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
BaSO4 Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
SGR-1b Meas																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
NBM-1 (slight fzz) Meas		42.4				7.70																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		42.4				8.49																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2160	755	< 1	34	57	261	2.77	5		79	0.7	7	0.42	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								1.8	< 0.5	4410	880	< 1	31	80	345	2.84	5		63	0.7	23	0.44	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 96 (Aqua Regia) Meas								10.6		> 10000				86	421						69		45
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
OREAS 218 Meas								535															
OREAS 218 Cert								531															

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 218 Meas							528																
OREAS 218 Cert							531																
OREAS 218 Meas							529																
OREAS 218 Cert							531																
OREAS 45f (Aqua Regia) Meas										344	163	< 1	219	8	27	7.06			139	1.1	6	0.07	39
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 238 (Fire Assay) Meas							3090																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							2930																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3080																
OREAS 238 (Fire Assay) Cert							3030																
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
1227013489 Orig							78																
1227013489 Dup							83																
1226001083 Orig								1.0	1.0	32	586	2	11	15	220	1.71	17	< 10	25	< 0.5	4	1.51	10
1226001083 Dup								1.1	0.9	33	594	3	11	15	221	1.75	20	< 10	26	< 0.5	2	1.54	10
1226001037 Orig							142																
1226001037 Dup							140																
1228037057 Orig																							
1228037057 Dup																							
1227023521 Orig								0.8	< 0.5	576	301	1	13	< 2	31	2.95	4	< 10	39	< 0.5	17	1.15	5
1227023521 Dup								0.8	< 0.5	577	299	1	15	< 2	31	2.97	3	< 10	38	< 0.5	18	1.15	5
1227022036 Orig																							
1227022036 Dup																							
1227022155 Orig								0.5	< 0.5	192	288	2	11	6	39	3.14	5	13	51	< 0.5	3	1.12	8
1227022155 Dup								0.5	< 0.5	186	277	2	11	5	37	2.96	7	12	45	< 0.5	3	1.06	7
1227017048 Orig																							
1227017048 Dup																							
1227023648 Orig							107																
1227023648 Dup							79																
1227022302 Orig	29.4	14.8	-14.6	34.0	0.435																		
1227022302 Dup	29.4	14.7	-14.7	34.0	0.432																		
1228034071 Orig								1.1	0.7	26	326	< 1	9	7	172	1.43	9	< 10	12	< 0.5	3	0.57	7
1228034071 Dup								1.2	0.7	24	327	< 1	9	6	166	1.42	9	< 10	< 10	< 0.5	4	0.57	8
1228034108 Orig							113																
1228034108 Dup							120																
1227034012 Orig							59																

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1227034012 Dup							87																
1228037041 Orig						9.47																	
1228037041 Dup						9.48																	
1227022271 Orig								0.7	< 0.5	111	261	2	16	4	83	1.70	8	11	43	< 0.5	< 2	1.36	9
1227022271 Dup								0.6	< 0.5	115	261	2	16	5	82	1.73	9	11	43	< 0.5	< 2	1.37	8
1228034013 Orig						9.02																	
1228034013 Dup						9.02																	
1228034020 Orig	79.1	9.25	-69.8	83.9	0.110																		
1228034020 Dup	79.1	9.24	-69.8	83.9	0.110																		
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
GXR-6 Meas	84	5.26	20	2	1.12	10	0.39	0.121	0.033	0.01	4	22	30		< 1	< 2	< 10	167	< 10	6	4			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
BaSO4 Meas																							14.3	
BaSO4 Cert																								14.0
BaSO4 Meas																								14.5
BaSO4 Cert																								14.0
BaSO4 Meas																								14.2
BaSO4 Cert																								14.0
BaSO4 Meas																								14.3
BaSO4 Cert																								14.0
SGR-1b Meas																								27.9 1.56
SGR-1b Cert																								28 1.53
SGR-1b Meas																								27.9 1.57
SGR-1b Cert																								28 1.53
SGR-1b Meas																								28.0 1.56
SGR-1b Cert																								28 1.53
SGR-1b Meas																								27.8 1.57
SGR-1b Cert																								28 1.53
GS311-4 Meas																								1.13 0.54
GS311-4 Cert																								1.11 0.54
GS311-4 Meas																								1.13 0.54
GS311-4 Cert																								1.11 0.54
GS311-4 Meas																								1.12 0.55
GS311-4 Cert																								1.11 0.54
GS311-4 Meas																								1.11 0.55
GS311-4 Cert																								1.11 0.54
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
OREAS 922 (AQUA REGIA) Meas	48	4.83	< 10		0.48	38	1.30	0.032	0.060	0.36	2	4	16			< 2	< 10	35	< 10	21	10			
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3			
OREAS 923 (AQUA REGIA) Meas	45	5.72	< 10		0.43	36	1.43		0.060	0.67	3	4	15			< 2	< 10	35	< 10	20	22			
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5			
Oreas 96 (Aqua Regia) Meas										3.80	6													
Oreas 96 (Aqua Regia) Cert										4.38	4.53													
OREAS 218 Meas																								
OREAS 218 Cert																								
OREAS 218 Meas																								
OREAS 218 Cert																								
OREAS 218 Meas																								

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
OREAS 218 Cert																								
OREAS 45f (Aqua Regia) Meas	373	13.1	20	< 1	0.11	11	0.17	0.048	0.020	0.02		29	15	0.08		3	< 10	194		6	9			
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0			
OREAS 238 (Fire Assay) Meas																								
OREAS 238 (Fire Assay) Cert																								
OREAS 238 (Fire Assay) Meas																								
OREAS 238 (Fire Assay) Cert																								
OREAS 238 (Fire Assay) Meas																								
OREAS 238 (Fire Assay) Cert																								
OREAS 238 (Fire Assay) Meas																								
OREAS 238 (Fire Assay) Cert																								
GS316-3 Meas																						0.06	0.34	
GS316-3 Cert																						0.0600	0.340	
GS316-3 Meas																						0.06	0.34	
GS316-3 Cert																						0.0600	0.340	
GS316-3 Meas																						0.06	0.34	
GS316-3 Cert																						0.0600	0.340	
1227013489 Orig																							0.24	1.18
1227013489 Dup																							0.25	1.15
1226001083 Orig	84	2.36	< 10	< 1	0.39	21	0.75	0.122	0.054	2.41	< 2	< 1	56	< 0.01	2	< 2	< 10	9	< 10	3	12			
1226001083 Dup	86	2.40	< 10	< 1	0.39	22	0.76	0.125	0.055	2.46	< 2	< 1	57	< 0.01	1	< 2	< 10	9	< 10	4	13			
1226001037 Orig																								
1226001037 Dup																								
1228037057 Orig																							0.20	1.41
1228037057 Dup																							0.21	1.41
1227023521 Orig	303	3.32	< 10	< 1	0.31	13	0.64	0.168	0.033	1.67	3	< 1	123	0.03	< 1	< 2	< 10	9	< 10	2	18			
1227023521 Dup	306	3.30	< 10	< 1	0.31	13	0.64	0.168	0.033	1.66	< 2	< 1	122	0.03	< 1	< 2	< 10	9	< 10	2	16			
1227022036 Orig																							0.25	1.19
1227022036 Dup																							0.25	1.14
1227022155 Orig	127	2.42	< 10	< 1	0.28	17	0.77	0.145	0.039	1.38	< 2	1	105	< 0.01	2	< 2	< 10	13	< 10	2	10			
1227022155 Dup	123	2.30	< 10	< 1	0.27	16	0.73	0.137	0.037	1.32	< 2	1	99	< 0.01	2	< 2	< 10	13	< 10	2	9			
1227017048 Orig																							0.17	0.59
1227017048 Dup																							0.17	0.58
1227023648 Orig																								
1227023648 Dup																								
1227022302 Orig																								
1227022302 Dup																								
1228034071 Orig	133	2.95	< 10	< 1	0.52	12	0.41	0.071	0.039	3.08	< 2	< 1	17	< 0.01	< 1	< 2	< 10	7	< 10	2	16			
1228034071 Dup	127	2.95	< 10	< 1	0.52	12	0.40	0.069	0.038	3.07	< 2	< 1	18	< 0.01	< 1	< 2	< 10	7	< 10	2	16			
1228034108 Orig																							0.26	1.26
1228034108 Dup																							0.24	1.24
1227034012 Orig																							0.26	0.80
1227034012 Dup																							0.25	0.82
1228037041 Orig																								
1228037041 Dup																								
1227022271 Orig	308	1.94	< 10	< 1	0.30	14	0.67	0.107	0.034	1.02	< 2	1	75	0.02	< 1	< 2	< 10	14	< 10	2	8	0.36	1.07	
1227022271 Dup	306	1.95	< 10	< 1	0.30	13	0.67	0.106	0.034	1.05	< 2	1	75	0.02	< 1	< 2	< 10	14	< 10	2	8	0.35	0.99	

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1228034013 Orig																							
1228034013 Dup																							
1228034020 Orig																						0.17	2.75
1228034020 Dup																						0.16	2.73
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		

Analyte Symbol	SO4
Unit Symbol	%
Lower Limit	0.05
Method Code	SO4
GXR-6 Meas	
GXR-6 Cert	
BaSO4 Meas	
BaSO4 Cert	
BaSO4 Meas	
BaSO4 Cert	
BaSO4 Meas	
BaSO4 Cert	
BaSO4 Meas	
BaSO4 Cert	
SGR-1b Meas	
SGR-1b Cert	
SGR-1b Meas	
SGR-1b Cert	
SGR-1b Meas	
SGR-1b Cert	
SGR-1b Meas	
SGR-1b Cert	
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 923 (AQUA REGIA) Meas	
OREAS 923 (AQUA REGIA) Cert	
Oreas 96 (Aqua Regia) Meas	
Oreas 96 (Aqua Regia) Cert	
OREAS 218 Meas	
OREAS 218 Cert	
OREAS 218 Meas	
OREAS 218 Cert	
OREAS 218 Meas	

Analyte Symbol	SO4
Unit Symbol	%
Lower Limit	0.05
Method Code	SO4
OREAS 218 Cert	
OREAS 45f (Aqua Regia) Meas	
OREAS 45f (Aqua Regia) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
1227013489 Orig	
1227013489 Dup	
1226001083 Orig	
1226001083 Dup	
1226001037 Orig	
1226001037 Dup	
1228037057 Orig	
1228037057 Dup	
1227023521 Orig	
1227023521 Dup	
1227022036 Orig	
1227022036 Dup	
1227022155 Orig	
1227022155 Dup	
1227017048 Orig	
1227017048 Dup	
1227023648 Orig	
1227023648 Dup	
1227022302 Orig	
1227022302 Dup	
1228034071 Orig	
1228034071 Dup	
1228034108 Orig	
1228034108 Dup	
1227034012 Orig	
1227034012 Dup	
1228037041 Orig	
1228037041 Dup	
1227022271 Orig	
1227022271 Dup	

Analyte Symbol	SO4
Unit Symbol	%
Lower Limit	0.05
Method Code	SO4
1228034013 Orig	
1228034013 Dup	
1228034020 Orig	
1228034020 Dup	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	



Report No.: A20-03944
 Report Date: 07-May-20
 Date Submitted: 03-Apr-20
 Your Reference: 2020 Feb_Mar_check assays

New Gold Inc.
 1800-Two Bentall Centre
 555 Burrard Street, Box 212
 Vancouver BC V7X 1M9
 Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

109 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2020-04-14 18:10:15
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2020-04-22 09:53:45

REPORT **A20-03944**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

Footnote: Insufficient material for Samples V860663, V860660 and V860661

CERTIFIED BY:

<original signed by>

Emmanuel Esemé, Ph.D.
 Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
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**New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada**

**Report No.: A20-03944
Report Date: 07-May-20
Date Submitted: 03-Apr-20
Your Reference: 2020 Feb_Mar_check assays**

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

109 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek	Acid Base Accounting	2020-04-17 13:49:38
4F-C, S	Infrared	2020-04-28 17:34:09

REPORT **A20-03944**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

Footnote: Insufficient material for Samples V860663, V860660 and V860661

CERTIFIED BY:

<original signed by>

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

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Results

Activation Laboratories Ltd.

Report: A20-03944

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1226010169	9.89	16.0	6.09	14.4	1.11	8.79	39	< 0.2	< 0.5	31	476	< 1	12	8	101	3.63	11	< 10	58	< 0.5	< 2	2.24	8
1226010228	13.7	11.1	-2.66	18.1	0.613	8.84	7	< 0.2	< 0.5	38	518	1	16	3	118	3.69	3	< 10	89	0.5	< 2	2.04	9
1226011093	3.13	5.25	2.12	3.06	1.71	9.07	< 5	< 0.2	< 0.5	112	453	< 1	41	< 2	46	4.71	< 2	< 10	17	< 0.5	< 2	3.50	20
1226010163	13.5	20.1	6.56	17.5	1.15	8.76	33	< 0.2	< 0.5	16	391	< 1	11	5	103	3.33	15	< 10	72	0.5	< 2	1.83	7
1226010111	7.29	81.2	73.9	11.0	7.37	8.89	32	< 0.2	< 0.5	29	441	1	15	9	105	3.80	5	< 10	76	< 0.5	< 2	2.41	8
1226010141	10.5	7.49	-3.03	13.5	0.556	8.91	44	< 0.2	< 0.5	22	425	1	12	10	99	3.36	7	< 10	62	< 0.5	< 2	1.78	8
1226011145	2.81	8.47	5.65	2.76	3.07	8.98	< 5	< 0.2	< 0.5	112	449	< 1	54	< 2	45	4.72	< 2	< 10	17	< 0.5	< 2	3.60	21
1226011181	10.6	12.8	2.22	10.4	1.23	9.05	33	< 0.2	< 0.5	119	542	1	47	< 2	58	4.19	2	< 10	25	< 0.5	< 2	3.11	21
1232011064	15.7	43.9	28.2	19.6	2.24	9.10	29	0.6	< 0.5	26	906	< 1	32	5	161	1.44	11	< 10	83	< 0.5	< 2	1.92	13
V860663							120																
1226012117	77.5	5.61	-71.9	84.2	0.0666	8.37	514	1.2	< 0.5	222	316	4	15	4	51	2.15	15	< 10	16	< 0.5	5	0.70	8

Results

Activation Laboratories Ltd.

Report: A20-03944

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1226010111	317	2.29	10	< 1	0.26	16	0.89	0.151	0.048	0.37	2	1	243	0.02	< 1	< 2	< 10	18	< 10	3	4	0.26	0.36
1226010141	193	1.99	< 10	< 1	0.23	16	0.95	0.155	0.047	0.46	< 2	1	176	< 0.01	< 1	< 2	< 10	14	< 10	2	4	0.19	0.44
1226011145	478	4.38	< 10	2	0.04	< 10	1.77	0.490	0.019	0.10	4	6	68	0.21	< 1	< 2	< 10	124	< 10	4	3	0.29	0.09
1226011181	376	4.34	< 10	< 1	0.10	< 10	1.79	0.381	0.026	0.33	3	6	82	0.20	1	< 2	< 10	111	< 10	4	7	0.16	0.34
1232011064	408	2.64	< 10	< 1	0.42	21	1.06	0.069	0.055	0.68	2	2	40	0.11	3	< 2	< 10	31	< 10	3	16	0.51	0.64
V860663																							
1226012117	299	3.41	< 10	< 1	0.30	12	0.65	0.165	0.040	2.80	3	1	89	< 0.01	< 1	< 2	< 10	13	< 10	3	22	0.33	2.75

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
SGR-1b Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
GS311-4 Meas																							
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GS311-4 Cert																							
GS311-4 Meas																							
NBM-1 (slight fzz) Meas		42.5				8.42																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		42.5				8.42																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		42.3				8.34																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas						7.75																	
NBM-1 (slight fzz) Cert						8.53																	
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2260	759	< 1	32	58	274	2.62	6		87	0.8	8	0.41	18
OREAS 922 (AQUA REGIA)								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Cert																							
OREAS 923 (AQUA REGIA) Meas								1.9	0.6	4540	861	< 1	30	79	359	2.63	7		66	0.7	20	0.42	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 96 (Aqua Regia) Meas								10.7		> 10000				83	432							13	44
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448							27.9	49.2
OREAS 218 Meas								510															
OREAS 218 Cert								531															
OREAS 218 Meas								542															
OREAS 218 Cert								531															
OREAS 218 Meas								538															
OREAS 218 Cert								531															
OREAS 218 Meas								553															
OREAS 218 Cert								531															
OREAS 218 Meas								545															
OREAS 218 Cert								531															
Oreas 621 (Aqua Regia) Meas								69.4	295	3730	544	14	25	> 5000	> 10000	1.61	80			0.6	4	1.30	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 45f (Aqua Regia) Meas										363	173	1	219	8	28	6.97			146	1.1	< 2	0.07	36
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 238 (Fire Assay) Meas								2940															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3000															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3070															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3190															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3180															
OREAS 238 (Fire Assay) Cert								3030															
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
GS316-3 Cert																								
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GS316-3 Meas																								
1230501206 Orig																								
1230501206 Dup																								
1226002151 Orig								25																
1226002151 Dup								24																
1227021197 Orig									1.4	< 0.5	234	557	< 1	16	5	173	2.09	12	< 10	46	< 0.5	< 2	0.98	9
1227021197 Dup									1.0	< 0.5	243	555	< 1	17	4	173	2.10	11	< 10	48	< 0.5	< 2	0.98	9
1227021176 Orig																								
1227021176 Dup																								
1227021248 Orig								66																
1227021248 Dup								68																
1227021080 Orig									0.7	< 0.5	55	714	< 1	21	5	146	1.65	16	< 10	56	< 0.5	< 2	1.88	8
1227021080 Dup									0.7	< 0.5	55	702	1	22	6	140	1.62	14	< 10	57	< 0.5	3	1.85	8
1226005084 Orig																								
1226005084 Dup																								
1226005082 Orig								71																
1226005082 Dup								74																
1226005010 Orig																								
1226005010 Dup																								
1226013178 Orig									0.4	< 0.5	74	404	1	17	4	132	2.05	6	< 10	19	< 0.5	4	1.10	8
1226013178 Dup									0.5	< 0.5	76	408	1	22	3	130	2.05	6	< 10	24	< 0.5	3	1.10	8
1226013207 Orig								110																
1226013207 Dup								126																
1226013002 Orig	65.8	25.7	-40.1	77.8	0.331																			
1226013002 Dup	65.8	25.8	-40.1	77.8	0.331																			
1226013231 Orig																								
1226013231 Dup																								
1226005024 Orig									< 0.2	< 0.5	69	423	< 1	14	< 2	57	2.59	8	21	39	< 0.5	< 2	1.41	8
1226005024 Dup									0.2	< 0.5	70	421	< 1	13	< 2	58	2.53	9	20	38	< 0.5	4	1.40	8
1226013198 Orig								207																
1226013198 Dup								203																

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1226005146 Orig																							
1226005146 Dup																							
1232011059 Orig								26															
1232011059 Dup								25															
1226011219 Orig																							
1226011219 Dup																							
1226011055 Orig						9.05																	
1226011055 Dup						9.09																	
1226011202 Orig								0.4	< 0.5	95	617	< 1	33	9	69	3.59	10	17	38	< 0.5	3	1.82	11
1226011202 Dup								0.4	< 0.5	94	605	< 1	34	9	68	3.52	10	17	38	< 0.5	4	1.90	11
1226011270 Orig								49															
1226011270 Dup								54															
1228038038 Orig																							
1228038038 Dup																							
1226005154 Orig								14															
1226005154 Dup								16															
1226010096 Orig								< 0.2	< 0.5	23	351	2	18	11	92	3.09	5	< 10	56	< 0.5	< 2	1.54	8
1226010096 Dup								< 0.2	< 0.5	24	351	2	18	11	94	3.10	4	< 10	55	< 0.5	< 2	1.53	7
1232011109 Orig																							
1232011109 Dup																							
1226010107 Orig	8.74	8.62	-0.122	12.3	0.704																		
1226010107 Dup	8.74	8.60	-0.141	12.3	0.702																		
1226010228 Orig								6															
1226010228 Dup								7															
1226010141 Orig								< 0.2	< 0.5	22	426	1	12	10	99	3.38	4	< 10	63	< 0.5	< 2	1.79	7
1226010141 Dup								< 0.2	< 0.5	22	424	1	12	10	98	3.35	10	< 10	61	< 0.5	< 2	1.78	8
1226011145 Orig																							
1226011145 Dup																							
1226011181 Orig								30															
1226011181 Dup								35															
Method Blank								< 5															
Method Blank								< 5															
Method Blank								< 5															
Method Blank								< 5															
Method Blank								< 5															
Method Blank								< 5															
Method Blank								< 5															
Method Blank								5															
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
GXR-6 Meas	84	5.57	20	< 1	1.09	< 10	0.40	0.074	0.034	0.01	4	21	30		< 1	< 2	< 10	172	< 10	5	7			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
BaSO4 Meas																							13.7	
BaSO4 Cert																								14.0
BaSO4 Meas																								13.6
BaSO4 Cert																								14.0
BaSO4 Meas																								14.1
BaSO4 Cert																								14.0
BaSO4 Meas																								13.9
BaSO4 Cert																								14.0
BaSO4 Meas																								13.9
BaSO4 Cert																								14.0
BaSO4 Meas																								14.0
BaSO4 Cert																								14.0
BaSO4 Meas																								14.1
BaSO4 Cert																								14.0
BaSO4 Meas																								13.9
BaSO4 Cert																								14.0
BaSO4 Meas																								14.1
BaSO4 Cert																								14.0
BaSO4 Meas																								14.0
BaSO4 Cert																								14.0
BaSO4 Meas																								13.7
BaSO4 Cert																								14.0
BaSO4 Meas																								14.3
BaSO4 Cert																								14.0
SGR-1b Meas																							27.9	1.48
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.6	1.49
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.8	1.48
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.8	1.49
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.8	1.51
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.6	1.52
SGR-1b Cert																							28	1.53
SGR-1b Meas																							28.0	1.51
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.8	1.46
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.9	1.48
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.9	1.47
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.6	1.48
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.7	1.49

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
SGR-1b Cert																						28	1.53	
SGR-1b Meas																							27.9	1.51
SGR-1b Cert																							28	1.53
GS311-4 Meas																							1.09	0.53
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.09	0.54
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.09	0.55
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.10	0.54
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.09	0.54
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.09	0.54
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.10	0.53
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.10	0.51
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.09	0.54
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.09	0.53
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.09	0.54
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.09	0.52
GS311-4 Cert																							1.11	0.54
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
OREAS 922 (AQUA REGIA) Meas	49	5.18	< 10		0.49	35	1.36	0.029	0.062	0.37	3	4	17			< 2	< 10	37	< 10	20	15			
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3			
OREAS 923 (AQUA REGIA) Meas	45	5.83	< 10		0.41	32	1.45		0.061	0.68	4	4	15			< 2	< 10	36	< 10	18	30			
OREAS 923	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5			

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
(AQUA REGIA) Cert																							
Oreas 96 (Aqua Regia) Meas										3.81	5												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
Oreas 621 (Aqua Regia) Meas	36	3.39	10	4	0.38	17	0.45	0.159	0.034	4.31	120	2	16			< 2	< 10	13	< 10	7	70		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 45f (Aqua Regia) Meas	375	13.8	20	< 1	0.12	10	0.19	0.042	0.021	0.02		29	16	0.12		< 2	< 10	210		5	16		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.36
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.36
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
GS316-3 Cert																						0.0600	0.340	
GS316-3 Meas																							0.06	0.33
GS316-3 Cert																							0.0600	0.340
GS316-3 Meas																							0.06	0.33
GS316-3 Cert																							0.0600	0.340
GS316-3 Meas																							0.06	0.34
GS316-3 Cert																							0.0600	0.340
GS316-3 Meas																							0.06	0.33
GS316-3 Cert																							0.0600	0.340
GS316-3 Meas																							0.07	0.33
GS316-3 Cert																							0.0600	0.340
GS316-3 Meas																							0.06	0.31
GS316-3 Cert																							0.0600	0.340
1230501206 Orig																							0.34	1.53
1230501206 Dup																							0.35	1.53
1226002151 Orig																								
1226002151 Dup																								
1227021197 Orig	254	2.70	< 10	< 1	0.24	15	1.28	0.161	0.043	1.37	3	1	61	< 0.01	< 1	< 2	< 10	13	< 10	3	17			
1227021197 Dup	249	2.71	< 10	< 1	0.24	14	1.26	0.161	0.043	1.37	4	1	61	0.01	< 1	< 2	< 10	14	< 10	3	17			
1227021176 Orig																							0.71	1.60
1227021176 Dup																							0.70	1.50
1227021248 Orig																								
1227021248 Dup																								
1227021080 Orig	480	2.61	< 10	< 1	0.27	13	1.02	0.107	0.043	1.16	3	1	51	0.03	< 1	< 2	< 10	16	< 10	3	7			
1227021080 Dup	476	2.56	< 10	< 1	0.27	13	1.00	0.107	0.042	1.14	4	1	51	0.03	< 1	< 2	< 10	16	< 10	3	7			
1226005084 Orig																							0.72	1.03
1226005084 Dup																							0.72	1.06
1226005082 Orig																								
1226005082 Dup																								
1226005010 Orig																							0.44	0.80
1226005010 Dup																							0.43	0.81
1226013178 Orig	260	2.70	< 10	< 1	0.21	18	1.18	0.198	0.051	2.70	< 2	1	84	< 0.01	< 1	< 2	< 10	12	< 10	3	20			
1226013178 Dup	259	2.72	< 10	< 1	0.21	19	1.17	0.198	0.052	2.69	3	1	86	< 0.01	2	< 2	< 10	12	< 10	3	26			
1226013207 Orig																								
1226013207 Dup																								
1226013002 Orig																								
1226013002 Dup																								
1226013231 Orig																							0.30	2.16
1226013231 Dup																							0.30	2.14
1226005024 Orig	283	2.73	< 10	< 1	0.27	13	1.16	0.078	0.039	1.01	< 2	1	79	< 0.01	< 1	< 2	< 10	18	< 10	2	7			
1226005024 Dup	274	2.68	< 10	< 1	0.26	12	1.15	0.077	0.039	0.98	2	1	77	< 0.01	< 1	< 2	< 10	17	< 10	2	7			
1226013198 Orig																								
1226013198 Dup																								
1226005146 Orig																							0.24	1.62
1226005146 Dup																							0.23	1.59
1232011059 Orig																								
1232011059 Dup																								
1226011219 Orig																							0.37	1.78
1226011219 Dup																							0.38	1.85
1226011055 Orig																								
1226011055 Dup																								

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1226011202 Orig	479	4.09	10	2	0.22	22	1.62	0.128	0.055	2.23	4	3	148	0.02	< 1	< 2	< 10	28	< 10	3	18		
1226011202 Dup	474	4.04	< 10	< 1	0.22	22	1.60	0.125	0.054	2.33	4	3	147	0.02	< 1	< 2	< 10	27	< 10	3	17		
1226011270 Orig																							
1226011270 Dup																							
1228038038 Orig																						0.21	4.57
1228038038 Dup																						0.20	4.59
1226005154 Orig																							
1226005154 Dup																							
1226010096 Orig	443	2.10	< 10	< 1	0.20	14	0.71	0.131	0.045	0.41	3	1	154	0.02	< 1	< 2	< 10	14	< 10	2	3		
1226010096 Dup	435	2.10	< 10	< 1	0.20	14	0.71	0.131	0.044	0.41	2	1	153	0.02	< 1	< 2	< 10	14	< 10	2	3		
1232011109 Orig																						0.57	0.74
1232011109 Dup																						0.57	0.76
1226010107 Orig																							
1226010107 Dup																							
1226010228 Orig																							
1226010228 Dup																							
1226010141 Orig	194	2.00	< 10	< 1	0.23	16	0.95	0.157	0.046	0.46	< 2	1	176	< 0.01	< 1	< 2	< 10	14	< 10	2	3		
1226010141 Dup	193	1.99	< 10	< 1	0.23	16	0.95	0.153	0.047	0.46	2	1	175	< 0.01	< 1	< 2	< 10	14	< 10	2	5		
1226011145 Orig																						0.29	0.09
1226011145 Dup																						0.28	0.10
1226011181 Orig																							
1226011181 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.009	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		



Report No.: A20-03947
Report Date: 13-May-20
Date Submitted: 03-Apr-20
Your Reference: 2020 Feb_Mar_check assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

140 Pulp samples were submitted for analysis.

Table with 3 columns: Analytical package(s) requested, Method, Testing Date. Rows include 11 ABA Modified Sobek (Acid Base Accounting, 2020-04-23 11:34:53) and 4F-C, S (Infrared, 2020-04-30 09:12:36).

REPORT A20-03947

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

<original signed by>

[Signature]

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Report No.: A20-03947
Report Date: 13-May-20
Date Submitted: 03-Apr-20
Your Reference: 2020 Feb_Mar_check assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

140 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2020-04-14 07:20:47
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2020-04-22 16:31:07

REPORT A20-03947

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

<original signed by>



Emmanuel Esemé, Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
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E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A20-03947

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1227024263	118	40.7	-77.5	140	0.291	8.75	283	3.8	11.4	119	697	< 1	63	7	2960	2.51	37	< 10	20	< 0.5	< 2	2.04	53
1226003072	60.6	22.9	-37.8	72.3	0.316	8.84	168	1.4	5.6	144	797	1	14	5	1400	2.13	9	< 10	38	< 0.5	< 2	1.21	8
1227024149	18.3	34.6	16.3	25.1	1.38	9.17	80	0.3	0.7	20	706	1	16	3	184	2.52	13	< 10	92	< 0.5	< 2	1.85	7
1226012268	32.8	15.2	-17.6	40.1	0.379	8.81	59	0.3	0.8	27	579	< 1	14	9	248	2.86	8	< 10	70	< 0.5	< 2	1.71	7
1433099018	15.2	80.9	65.7	25.1	3.22	8.79	43	0.5	< 0.5	39	870	< 1	81	6	180	2.63	9	< 10	45	< 0.5	< 2	3.03	25
1226003187	46.1	61.3	15.2	59.7	1.03	9.05	137	2.2	< 0.5	22	1120	< 1	12	35	167	1.70	32	< 10	45	< 0.5	< 2	2.32	7
V860656							1550	10.0	< 0.5	52	347	19	14	5	54	1.32	< 2	< 10	81	< 0.5	< 2	1.12	12
1226002221	51.6	18.5	-33.1	63.7	0.291	8.64	772	1.2	10.6	92	837	< 1	13	27	2530	1.94	74	< 10	44	< 0.5	< 2	0.98	8
1227027114	35.6	11.3	-24.4	42.0	0.268	8.77	13	< 0.2	< 0.5	18	224	2	12	4	30	1.97	7	17	60	< 0.5	< 2	0.73	6
1227027119	18.2	25.9	7.66	23.6	1.10	8.85	28	0.4	< 0.5	30	404	< 1	11	31	93	1.85	11	12	64	< 0.5	< 2	1.07	7
1227027100	19.0	15.3	-3.61	23.6	0.650	8.85	150	0.3	< 0.5	31	299	3	15	4	89	2.02	8	17	73	< 0.5	< 2	1.10	8
1226012274	21.3	6.85	-14.5	26.3	0.260	8.61	337	0.5	< 0.5	101	611	2	19	5	97	2.24	15	< 10	54	< 0.5	< 2	1.44	8
1226002057	50.1	17.3	-32.8	60.3	0.287	8.68	453	3.2	1.9	59	917	2	15	54	438	1.59	26	< 10	42	< 0.5	< 2	1.53	8
1226012309	28.3	17.7	-10.6	33.4	0.530	8.77	78	0.3	< 0.5	38	574	< 1	14	9	190	1.94	8	< 10	50	< 0.5	< 2	1.34	6
1226002059	57.5	42.8	-14.7	65.2	0.656	8.86	887	15.1	2.9	134	1330	< 1	15	452	753	0.82	71	< 10	33	< 0.5	< 2	1.80	8
1226002188	45.0	21.9	-23.1	53.6	0.408	8.88	394	3.1	3.6	66	763	< 1	13	83	845	2.50	39	< 10	47	< 0.5	< 2	1.77	8
1226002198	45.4	28.5	-16.9	53.9	0.529	8.84	408	2.8	3.6	66	841	< 1	15	95	840	2.46	58	< 10	44	< 0.5	< 2	1.94	8
1226002031	48.2	9.96	-38.3	56.7	0.176	8.71	1880	5.5	1.9	45	954	2	21	54	444	1.51	26	< 10	48	< 0.5	< 2	1.80	8
1226002009	8.32	37.0	28.7	15.0	2.47	8.99	18	0.3	< 0.5	49	336	3	13	7	206	2.52	13	< 10	65	< 0.5	< 2	1.37	12
1226002017	6.87	43.9	37.0	13.2	3.33	8.93	22	< 0.2	< 0.5	28	424	< 1	31	6	66	2.92	6	< 10	80	< 0.5	< 2	2.43	11
1226002092	19.4	8.50	-10.9	23.6	0.360	8.76	18	< 0.2	< 0.5	9	424	< 1	10	4	48	3.00	13	< 10	57	< 0.5	< 2	1.32	7
1226002040	7.08	10.9	3.79	11.0	0.986	8.92	64	0.2	< 0.5	33	486	< 1	14	6	70	3.34	2	< 10	60	< 0.5	< 2	1.92	7
1230501130	22.8	16.0	-6.85	28.8	0.554	8.86	146	0.6	1.7	32	814	< 1	14	6	505	2.66	17	< 10	56	< 0.5	< 2	1.80	8
1230501138	40.3	17.1	-23.2	46.2	0.370	8.86	77	0.5	0.6	59	694	< 1	23	4	214	1.75	22	< 10	44	< 0.5	< 2	1.15	10
1226002127	57.8	68.4	10.6	67.4	1.02	8.90	470	8.7	1.9	56	1400	< 1	14	229	494	1.41	41	< 10	40	< 0.5	< 2	2.89	7
V860657							748	3.0	< 0.5	35	274	14	13	33	48	1.09	2	< 10	61	< 0.5	< 2	2.11	9
1226013016	75.4	8.10	-67.3	83.3	0.0972	8.76	37	0.5	< 0.5	24	318	< 1	14	4	166	1.64	4	< 10	28	< 0.5	5	0.74	10
1227028029	179	15.1	-164	194	0.0775	8.30	205	2.8	1.3	116	713	< 1	47	4	381	1.87	34	< 10	13	< 0.5	11	0.89	33
1227028013	30.8	40.5	9.70	36.1	1.12	9.24	87	2.8	< 0.5	7	653	< 1	9	5	127	1.94	12	< 10	69	< 0.5	< 2	1.38	5
1227028039	87.9	13.0	-74.9	95.6	0.136	8.58	104	1.4	< 0.5	42	516	1	27	4	188	1.46	34	< 10	28	< 0.5	6	0.82	18
1227028118	35.0	15.6	-19.4	41.7	0.373	8.81	67	0.5	< 0.5	41	606	2	18	3	116	3.07	21	17	62	< 0.5	< 2	1.65	9
1226013095	50.9	9.61	-41.3	57.3	0.168	8.79	996	0.9	< 0.5	172	472	3	16	3	90	1.88	10	< 10	45	< 0.5	< 2	0.77	8
1227028128	35.0	10.3	-24.6	40.1	0.258	8.83	53	0.6	< 0.5	18	529	< 1	15	4	128	2.37	19	14	65	< 0.5	< 2	1.00	9
1227028028	160	18.4	-142	164	0.112	8.30	161	2.5	0.9	28	677	1	49	4	161	1.87	26	< 10	13	< 0.5	12	1.03	39
1227028144	45.9	10.7	-35.2	55.4	0.193	8.83	54	0.8	1.8	52	507	< 1	19	3	483	1.74	16	< 10	47	< 0.5	3	0.92	6
1227028078	36.1	8.61	-27.5	42.3	0.204	8.77	110	2.2	0.7	21	644	1	18	5	265	2.18	25	< 10	60	< 0.5	< 2	1.01	8
1226013064	77.9	8.11	-69.8	86.4	0.0939	8.70	83	0.9	2.2	88	401	1	18	2	527	1.75	16	< 10	28	< 0.5	3	0.65	9
1228050033	19.9	37.4	17.5	25.7	1.45	9.03	90	0.4	0.9	38	861	< 1	16	< 2	281	2.07	14	< 10	75	< 0.5	< 2	1.95	8
1227028113	45.7	9.11	-36.6	53.3	0.171	8.85	148	2.6	5.0	88	648	< 1	21	7	1590	2.07	36	< 10	47	< 0.5	2	0.76	11
1226013007	30.6	20.0	-10.6	35.5	0.562	8.91	86	< 0.2	< 0.5	45	512	1	15	< 2	91	1.62	5	< 10	62	< 0.5	< 2	1.32	7
1227028082	43.3	7.36	-36.0	54.8	0.134	8.76	134	4.0	2.9	15	560	2	18	2	931	1.71	17	< 10	48	< 0.5	< 2	0.61	9
1226013004	17.1	15.7	-1.34	22.0	0.714	9.05	45	< 0.2	0.7	26	641	< 1	18	< 2	266	1.96	4	< 10	87	< 0.5	< 2	1.32	7

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1433099018	178	5.47	< 10	2	0.15	< 10	2.12	0.115	0.044	0.81	3	9	54	0.05	< 1	< 2	< 10	95	< 10	6	9	1.11	0.82
1226003187	124	2.25	< 10	< 1	0.32	19	1.08	0.099	0.048	2.05	< 2	< 1	51	< 0.01	< 1	< 2	< 10	10	< 10	3	15	0.80	1.95
V860656	12	3.36	< 10	< 1	0.21	< 10	0.52	0.214	0.056	0.06	2	4	35	0.45	4	< 2	< 10	92	< 10	15	14		
1226002221	93	2.70	< 10	< 1	0.41	13	0.96	0.080	0.037	2.18	3	< 1	31	0.01	< 1	< 2	< 10	10	< 10	1	13	0.24	2.08
1227027114	213	2.14	< 10	< 1	0.27	15	0.81	0.136	0.038	1.40	< 2	1	110	< 0.01	2	< 2	< 10	13	< 10	2	7	0.13	1.37
1227027119	140	2.37	< 10	< 1	0.36	< 10	1.16	0.038	0.039	0.86	< 2	1	41	0.01	< 1	< 2	< 10	13	< 10	1	10	0.26	0.77
1227027100	266	2.00	< 10	< 1	0.30	15	0.88	0.153	0.038	0.86	2	1	88	0.02	< 1	< 2	< 10	15	11	2	10	0.20	0.77
1226012274	452	2.19	< 10	< 1	0.25	15	0.68	0.136	0.045	0.95	3	< 1	73	0.03	< 1	< 2	< 10	11	< 10	2	13	0.29	0.86
1226002057	150	2.10	< 10	< 1	0.41	15	0.81	0.060	0.045	2.13	2	< 1	33	< 0.01	< 1	< 2	< 10	8	< 10	2	23	0.44	1.97
1226012309	249	2.05	< 10	< 1	0.28	14	0.69	0.151	0.039	1.14	< 2	1	74	0.02	< 1	< 2	< 10	12	< 10	2	16	0.35	1.09
1226002059	188	2.01	< 10	< 1	0.24	17	0.40	0.046	0.044	2.30	12	< 1	33	< 0.01	7	< 2	< 10	4	< 10	2	16	0.69	2.13
1226002188	94	2.14	< 10	< 1	0.37	14	1.03	0.130	0.041	1.86	2	1	55	< 0.01	< 1	< 2	< 10	10	< 10	2	20	0.27	1.75
1226002198	186	2.22	< 10	< 1	0.33	13	1.08	0.090	0.038	1.87	2	1	55	< 0.01	< 1	< 2	< 10	10	< 10	2	19	0.36	1.76
1226002031	427	2.14	< 10	< 1	0.34	17	0.74	0.068	0.047	2.01	3	< 1	41	0.01	5	< 2	< 10	8	< 10	2	24	0.39	1.85
1226002009	166	1.31	< 10	< 1	0.25	17	0.29	0.207	0.044	0.51	< 2	1	233	0.02	1	< 2	< 10	9	< 10	2	9	0.17	0.49
1226002017	199	2.37	< 10	< 1	0.27	19	1.12	0.114	0.058	0.43	< 2	3	149	0.02	3	< 2	< 10	24	< 10	3	7	0.51	0.43
1226002092	129	1.98	< 10	< 1	0.26	16	0.62	0.101	0.047	0.82	2	< 1	110	0.01	< 1	< 2	< 10	12	< 10	2	12	0.18	0.77
1226002040	316	2.19	< 10	< 1	0.24	16	0.64	0.187	0.043	0.36	< 2	1	214	0.04	2	< 2	< 10	13	< 10	2	9	0.20	0.36
1230501130	155	2.34	< 10	< 1	0.25	11	0.93	0.205	0.035	1.03	4	< 1	86	0.05	< 1	< 2	< 10	12	< 10	2	14	0.23	0.94
1230501138	335	2.59	< 10	< 1	0.22	16	1.03	0.133	0.040	1.60	4	1	55	< 0.01	< 1	< 2	< 10	15	< 10	2	21	0.27	1.51
1226002127	141	2.13	< 10	< 1	0.34	15	0.61	0.065	0.045	2.37	5	< 1	54	< 0.01	4	< 2	< 10	7	< 10	2	16	0.94	2.20
V860657	12	3.01	< 10	< 1	0.23	17	0.44	0.149	0.047	0.04	< 2	3	46	0.28	6	< 2	< 10	56	< 10	16	13		
1226013016	181	2.66	< 10	< 1	0.20	29	1.02	0.118	0.060	2.98	< 2	2	50	0.01	2	< 2	< 10	14	< 10	3	33	0.09	2.72
1227028029	197	6.77	< 10	< 1	0.28	< 10	1.38	0.063	0.060	6.61	3	5	25	0.04	6	< 2	< 10	77	< 10	8	12	0.25	6.35
1227028013	164	1.72	< 10	< 1	0.29	12	1.12	0.127	0.037	1.22	< 2	< 1	53	0.03	1	< 2	< 10	13	< 10	2	16	0.15	1.18
1227028039	186	3.49	< 10	< 1	0.28	11	0.89	0.094	0.047	3.33	2	2	38	< 0.01	< 1	< 2	< 10	24	< 10	4	15	0.26	3.12
1227028118	212	2.63	< 10	2	0.27	23	1.26	0.175	0.059	1.41	3	1	97	< 0.01	< 1	< 2	< 10	19	< 10	2	12	0.21	1.36
1226013095	316	3.15	< 10	< 1	0.20	15	0.89	0.140	0.041	2.01	3	2	62	< 0.01	< 1	< 2	< 10	17	< 10	3	18	0.18	1.87
1227028128	165	2.21	< 10	< 1	0.29	29	1.11	0.118	0.063	1.36	3	1	61	< 0.01	< 1	< 2	< 10	15	< 10	2	14	0.18	1.31
1227028028	265	5.82	< 10	< 1	0.33	< 10	1.32	0.079	0.059	5.65	3	5	30	0.06	7	< 2	< 10	73	< 10	6	12	0.30	5.34
1227028144	387	2.43	< 10	< 1	0.31	14	0.77	0.158	0.040	1.83	3	1	58	0.02	2	< 2	< 10	13	< 10	2	20	0.18	1.81
1227028078	313	2.43	< 10	< 1	0.29	13	1.11	0.171	0.038	1.43	3	1	75	0.02	< 1	< 2	< 10	15	< 10	2	18	0.22	1.38
1226013064	362	2.87	< 10	< 1	0.19	26	1.14	0.111	0.060	2.97	4	1	49	< 0.01	< 1	< 2	< 10	12	< 10	3	25	0.24	2.82
1228050033	225	2.35	< 10	1	0.32	14	1.01	0.145	0.042	0.88	< 2	1	78	0.02	< 1	< 2	< 10	15	< 10	2	11	0.54	0.84
1227028113	318	2.77	< 10	< 1	0.32	23	1.23	0.125	0.059	1.78	3	1	48	< 0.01	< 1	< 2	< 10	17	< 10	3	19	0.22	1.74
1226013007	288	2.22	< 10	< 1	0.18	14	0.65	0.161	0.039	1.21	< 2	1	75	< 0.01	< 1	< 2	< 10	12	< 10	2	15	0.29	1.16
1227028082	299	2.68	< 10	< 1	0.34	14	1.02	0.078	0.044	1.94	3	1	33	< 0.01	2	< 2	< 10	14	< 10	2	19	0.17	1.79
1226013004	346	2.14	< 10	< 1	0.21	14	0.85	0.193	0.038	0.78	3	1	85	0.01	< 1	< 2	< 10	16	< 10	2	15	0.26	0.72

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
SGR-1b Cert																							
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GS311-4 Meas																							
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GS311-4 Cert																							
GS311-4 Meas																							
NBM-1 (slight fzz) Meas		43.1				8.42																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		42.4				8.42																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		42.4				8.34																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		42.5				7.75																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		42.5																					

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit		46.6				0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
NBM-1 (slight fzz) Cert		46.6																					
NBM-1 (slight fzz) Meas		42.5																					
NBM-1 (slight fzz) Cert		46.6																					
NBM-1 (slight fzz) Meas		42.3																					
NBM-1 (slight fzz) Cert		46.6																					
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2230	755	< 1	33	59	251	2.54	4		79	0.7	4	0.40	17
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								1.6	< 0.5	4410	901	< 1	31	75	350	2.56	6		62	0.6	11	0.42	23
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.5	< 0.5	4520	902	< 1	33	76	343	2.61	7		64	0.7	23	0.42	23
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 96 (Aqua Regia) Meas								11.1		> 10000				82	419							< 2	42
Oreas 96 (Aqua Regia) Cert								11.50		39100. 00				100	448							27.9	49.2
Oreas 96 (Aqua Regia) Meas								10.9		> 10000				82	422							< 2	50
Oreas 96 (Aqua Regia) Cert								11.50		39100. 00				100	448							27.9	49.2
OREAS 218 Meas								543															
OREAS 218 Cert								531															
OREAS 218 Meas								544															
OREAS 218 Cert								531															
OREAS 218 Meas								537															
OREAS 218 Cert								531															
OREAS 218 Meas								518															
OREAS 218 Cert								531															
Oreas 621 (Aqua Regia) Meas								72.6	315	3620	564	12	25	> 5000	> 10000	1.57	79			0.6	< 2	1.75	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								68.4	305	3670	554	13	27	> 5000	> 10000	1.57	76			0.6	< 2	1.71	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 45f (Aqua Regia) Meas										376	165	1	235	4	24	6.48			138	1.0	< 2	0.07	34
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 238 (Fire Assay) Meas							3160																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3190																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3090																
OREAS 238 (Fire Assay) Cert							3030																
GS316-3 Meas																							
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GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
1226012172 Orig																							
1226012172 Dup																							
1226003042 Orig							523																
1226003042 Dup							526																
1226003001 Orig								0.5	< 0.5	25	734	< 1	10	9	91	2.10	21	< 10	62	< 0.5	< 2	2.05	7
1226003001 Dup								0.6	< 0.5	26	741	< 1	10	10	89	2.10	23	< 10	61	< 0.5	< 2	2.08	7
1226003189 Orig																							
1226003189 Dup																							
1434001048 Orig							666																
1434001048 Dup							687																
1434001007 Orig								0.3	< 0.5	31	610	< 1	31	4	83	1.80	11	< 10	55	< 0.5	< 2	2.24	14
1434001007 Dup								0.3	< 0.5	34	616	< 1	37	4	91	1.88	8	< 10	56	< 0.5	< 2	2.11	14
1228037221 Orig							76																
1228037221 Dup							88																

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1227022106 Orig	29.8	3.36	-26.4	34.6	0.0972																		
1227022106 Dup	29.8	3.38	-26.4	34.6	0.0976																		
1228037604 Orig						8.70																	
1228037604 Dup						8.70																	
1233001361 Orig								< 0.2	< 0.5	76	456	< 1	41	2	58	2.68	3	< 10	45	< 0.5	< 2	2.21	17
1233001361 Dup								< 0.2	< 0.5	75	463	< 1	42	< 2	56	2.63	< 2	< 10	46	< 0.5	< 2	2.32	17
1228037114 Orig																							
1228037114 Dup																							
1227024006 Orig							781																
1227024006 Dup							661																
1227024085 Orig																							
1227024085 Dup																							
1227024236 Orig								3.6	< 0.5	27	563	1	11	4	207	2.00	22	11	64	< 0.5	7	0.74	7
1227024236 Dup								3.7	< 0.5	26	549	< 1	11	3	204	1.98	22	11	54	< 0.5	7	0.74	7
1227024138 Orig							370																
1227024138 Dup							324																
1233001598 Orig																							
1233001598 Dup																							
1433099067 Orig							87																
1433099067 Dup							88																
1226012182 Orig																							
1226012182 Dup																							
1227024069 Orig								0.2	< 0.5	50	369	2	14	4	103	2.60	12	12	86	< 0.5	< 2	1.16	12
1227024069 Dup								0.3	< 0.5	51	358	2	14	4	102	2.61	12	12	88	< 0.5	< 2	1.16	12
1227024321 Orig							121																
1227024321 Dup							150																
1233001567 Orig	8.01	29.8	21.7	16.5	1.80																		
1233001567 Dup	8.01	29.8	21.8	16.5	1.80																		
1226003181 Orig							203																
1226003181 Dup							188																
1226003063 Orig								1.1	3.2	104	862	1	12	17	806	1.78	20	< 10	51	< 0.5	< 2	1.98	7
1226003063 Dup								1.0	3.2	106	809	1	13	15	745	1.80	23	< 10	51	< 0.5	< 2	1.94	7
1226012332 Orig																							
1226012332 Dup																							
1226003072 Orig							172																
1226003072 Dup							164																
1226003187 Orig								2.2	< 0.5	23	1130	< 1	12	35	181	1.71	33	< 10	45	< 0.5	< 2	2.26	7
1226003187 Dup								2.3	0.6	22	1120	< 1	12	34	154	1.69	32	< 10	45	< 0.5	< 2	2.39	7
1227027119 Orig																							
1227027119 Dup																							
1226012309 Orig						8.77																	
1226012309 Dup						8.77																	
1226002198 Orig							418																
1226002198 Dup							397																
1226002017 Orig								< 0.2	< 0.5	28	415	< 1	30	5	69	2.91	5	< 10	79	< 0.5	< 2	2.33	10
1226002017 Dup								< 0.2	< 0.5	29	433	< 1	32	7	63	2.93	8	< 10	81	< 0.5	< 2	2.53	11
1226002092 Orig																							
1226002092 Dup																							
1226013016 Orig							37																

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1226013016 Dup							36																
1226013095 Orig	50.9	9.61	-41.3	57.3	0.168																		
1226013095 Dup	50.9	9.61	-41.3	57.3	0.168																		
1227028078 Orig								2.2	0.7	21	639	1	18	5	265	2.18	27	< 10	61	< 0.5	< 2	0.98	8
1227028078 Dup								2.1	0.7	22	650	1	19	4	265	2.19	23	< 10	58	< 0.5	< 2	1.04	8
1226013064 Orig							83																
1226013064 Dup							82																
1227028082 Orig						8.78																	
1227028082 Dup						8.75																	
1226013004 Orig	17.1	15.7	-1.33	22.0	0.714																		
1226013004 Dup	17.1	15.7	-1.34	22.0	0.714																		
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S				
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%				
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01				
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS				
SGR-1b Cert																							28	1.53			
SGR-1b Meas																								27.7	1.49		
SGR-1b Cert																								28	1.53		
SGR-1b Meas																									27.9	1.51	
SGR-1b Cert																									28	1.53	
GS311-4 Meas																									1.09	0.53	
GS311-4 Cert																									1.11	0.54	
GS311-4 Meas																									1.09	0.54	
GS311-4 Cert																									1.11	0.54	
GS311-4 Meas																									1.09	0.55	
GS311-4 Cert																									1.11	0.54	
GS311-4 Meas																									1.10	0.54	
GS311-4 Cert																									1.11	0.54	
GS311-4 Meas																									1.09	0.54	
GS311-4 Cert																									1.11	0.54	
GS311-4 Meas																									1.09	0.54	
GS311-4 Cert																									1.11	0.54	
GS311-4 Meas																									1.10	0.51	
GS311-4 Cert																									1.11	0.54	
GS311-4 Meas																									1.09	0.54	
GS311-4 Cert																									1.11	0.54	
GS311-4 Meas																									1.09	0.53	
GS311-4 Cert																									1.11	0.54	
GS311-4 Meas																									1.10	0.54	
GS311-4 Cert																									1.11	0.54	
GS311-4 Meas																									1.09	0.52	
GS311-4 Cert																									1.11	0.54	
NBM-1 (slight fzz) Meas																											
NBM-1 (slight fzz) Cert																											
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NBM-1 (slight fzz) Cert																											
NBM-1 (slight fzz) Meas																											

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	44	5.09	< 10		0.45	38	1.30	0.027	0.062	0.36	< 2	4	16			< 2	< 10	34	< 10	19	27		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 923 (AQUA REGIA) Meas	44	5.80	< 10		0.38	35	1.42		0.059	0.67	2	4	15			< 2	< 10	35	< 10	18	31		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	45	5.94	< 10		0.39	36	1.44		0.060	0.68	2	4	15			< 2	< 10	37	< 10	18	32		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 96 (Aqua Regia) Meas										3.99	5												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										4.18	7												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
Oreas 621 (Aqua Regia) Meas	33	3.32	10	4	0.35	20	0.45	0.149	0.034	4.50	118	2	18			< 2	< 10	13	< 10	7	68		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	33	3.34	10	5	0.35	21	0.44	0.154	0.034	4.53	120	2	19			< 2	< 10	13	< 10	7	68		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 45f (Aqua Regia) Meas	358	14.2	20	< 1	0.11	10	0.18	0.040	0.020	0.02		26	14	0.10		< 2	< 10	210		4	14		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.36
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.36
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.31
GS316-3 Cert																						0.0600	0.340
1226012172 Orig																						0.05	0.96
1226012172 Dup																						0.05	0.94
1226003042 Orig																							
1226003042 Dup																							
1226003001 Orig	76	2.11	< 10	< 1	0.33	11	1.05	0.090	0.043	1.77	< 2	< 1	64	< 0.01	< 1	< 2	< 10	9	< 10	1	8		
1226003001 Dup	79	2.15	< 10	< 1	0.33	11	1.06	0.089	0.042	1.82	< 2	< 1	64	< 0.01	< 1	< 2	< 10	9	< 10	1	8		
1226003189 Orig																						0.88	1.91
1226003189 Dup																						0.88	1.95
1434001048 Orig																							
1434001048 Dup																							
1434001007 Orig	141	3.77	< 10	< 1	0.25	11	1.16	0.127	0.049	0.75	< 2	8	56	0.15	< 1	< 2	< 10	85	< 10	6	9		
1434001007 Dup	143	3.87	< 10	< 1	0.26	10	1.17	0.133	0.050	0.77	2	8	59	0.16	< 1	< 2	< 10	97	< 10	6	9		
1228037221 Orig																						0.22	1.53
1228037221 Dup																						0.23	1.57
1227022106 Orig																							
1227022106 Dup																							
1228037604 Orig																							
1228037604 Dup																							
1233001361 Orig	325	3.54	< 10	< 1	0.17	< 10	1.29	0.249	0.040	0.25	< 2	6	62	0.19	1	< 2	< 10	82	< 10	5	7		
1233001361 Dup	309	3.49	< 10	< 1	0.17	< 10	1.28	0.242	0.040	0.25	3	6	59	0.18	2	< 2	< 10	79	< 10	5	7		
1228037114 Orig																						0.29	1.09
1228037114 Dup																						0.28	1.10
1227024006 Orig																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
1227024006 Dup																								
1227024085 Orig																							0.19	2.00
1227024085 Dup																							0.20	1.85
1227024236 Orig	129	2.59	< 10	< 1	0.33	12	1.43	0.071	0.039	1.66	< 2	< 1	34	< 0.01	4	< 2	< 10	10	< 10	2	16			
1227024236 Dup	128	2.59	< 10	< 1	0.33	12	1.42	0.071	0.038	1.66	< 2	< 1	34	< 0.01	4	< 2	< 10	10	< 10	2	15			
1227024138 Orig																								
1227024138 Dup																								
1233001598 Orig																							0.18	0.30
1233001598 Dup																							0.18	0.30
1433099067 Orig																								
1433099067 Dup																								
1226012182 Orig																							0.19	1.98
1226012182 Dup																							0.18	2.02
1227024069 Orig	94	2.64	< 10	< 1	0.51	14	1.44	0.074	0.043	0.97	< 2	3	73	0.07	< 1	< 2	< 10	30	< 10	3	17			
1227024069 Dup	86	2.64	< 10	< 1	0.52	15	1.44	0.075	0.043	0.97	< 2	3	73	0.07	< 1	< 2	< 10	29	< 10	3	17			
1227024321 Orig																								
1227024321 Dup																								
1233001567 Orig																							0.48	0.53
1233001567 Dup																							0.48	0.54
1226003181 Orig																								
1226003181 Dup																								
1226003063 Orig	132	2.07	< 10	< 1	0.25	18	1.20	0.137	0.048	1.92	< 2	1	64	< 0.01	< 1	< 2	< 10	11	< 10	2	22			
1226003063 Dup	132	2.12	< 10	< 1	0.25	18	1.19	0.141	0.048	1.92	3	1	64	< 0.01	< 1	< 2	< 10	11	< 10	2	21			
1226012332 Orig																							0.27	2.19
1226012332 Dup																							0.28	2.11
1226003072 Orig																								
1226003072 Dup																								
1226003187 Orig	123	2.26	< 10	< 1	0.32	19	1.07	0.101	0.047	2.08	< 2	1	51	< 0.01	< 1	< 2	< 10	10	< 10	2	14			
1226003187 Dup	125	2.25	< 10	< 1	0.32	19	1.09	0.098	0.048	2.02	< 2	< 1	50	< 0.01	< 1	< 2	< 10	10	< 10	3	15			
1227027119 Orig																							0.26	0.76
1227027119 Dup																							0.26	0.78
1226012309 Orig																								
1226012309 Dup																								
1226002198 Orig																								
1226002198 Dup																								
1226002017 Orig	186	2.37	< 10	< 1	0.27	19	1.13	0.115	0.057	0.42	< 2	3	149	0.02	2	< 2	< 10	23	< 10	3	7			
1226002017 Dup	212	2.36	< 10	< 1	0.27	19	1.12	0.113	0.059	0.43	3	3	149	0.02	3	< 2	< 10	25	< 10	3	8			
1226002092 Orig																							0.18	0.77
1226002092 Dup																							0.18	0.77
1226013016 Orig																								
1226013016 Dup																								
1226013095 Orig																							0.18	1.91
1226013095 Dup																							0.17	1.83
1227028078 Orig	313	2.42	< 10	< 1	0.29	12	1.10	0.171	0.038	1.42	3	1	75	0.02	< 1	< 2	< 10	15	< 10	2	18			
1227028078 Dup	314	2.43	< 10	< 1	0.29	13	1.11	0.172	0.038	1.44	2	1	76	0.02	1	< 2	< 10	16	< 10	2	18			
1226013064 Orig																								
1226013064 Dup																								
1227028082 Orig																								
1227028082 Dup																								
1226013004 Orig																							0.26	0.71
1226013004 Dup																							0.27	0.72

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		



Report No.: A20-04626
Report Date: 02-Jun-20
Date Submitted: 28-Apr-20
Your Reference: March 2020 Check assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

182 Pulp samples were submitted for analysis.

Table with 3 columns: Analytical package(s) requested, Method, and Testing Date. Rows include 1A2-50-Tbay, 1A3-50-Tbay, and 1E3-Tbay NewGold.

REPORT A20-04626

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

<original signed by>

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Report No.: A20-04626
Report Date: 02-Jun-20
Date Submitted: 28-Apr-20
Your Reference: March 2020 Check assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

182 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek Package	Acid Base Accounting	2020-05-09 15:17:40
4F-C, S	Infrared	2020-05-07 11:23:38

REPORT A20-04626

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

<original signed by>

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A20-04626

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
1226014293	48.5	14.6	-33.9	57.9	0.253	9.14	39	0.4	< 0.5	72	472	3	25	< 2	124	1.85	7	< 10	40	< 0.5	3	1.23	9	
1224035235	50.5	14.4	-36.1	57.0	0.252	8.75	124	0.5	3.4	26	250	< 1	19	8	828	1.27	47	< 10	28	< 0.5	2	0.95	9	
1226014074	53.9	12.6	-41.3	63.4	0.199	9.02	51	< 0.2	< 0.5	87	298	3	14	< 2	116	1.82	6	< 10	33	< 0.5	4	1.24	11	
1227035005	44.0	3.61	-40.4	52.7	0.0686	8.34	207	0.8	3.9	70	856	< 1	14	19	1170	2.01	115	< 10	37	0.6	5	0.42	11	
1226014211	46.5	14.5	-32.1	54.8	0.264	9.26	153	0.8	1.9	111	520	3	15	< 2	482	1.39	13	< 10	43	< 0.5	3	1.16	9	
1227035160	78.8	16.8	-62.0	87.0	0.194	8.24	92	1.6	3.5	55	283	< 1	18	6	898	1.12	101	< 10	26	< 0.5	2	0.83	11	
1227035019	38.4	51.1	12.7	44.1	1.16	8.93	147	1.8	0.8	20	1300	< 1	14	33	250	1.86	50	< 10	37	< 0.5	< 2	2.26	8	
1227041095	23.3	46.4	23.1	28.5	1.63	8.95	47	0.2	< 0.5	40	396	< 1	10	< 2	57	1.06	2	< 10	90	< 0.5	2	2.00	4	
1227035241	45.7	64.8	19.1	52.7	1.23	8.66	142	0.7	1.9	28	692	< 1	15	10	476	0.43	46	< 10	24	< 0.5	2	2.64	7	
1226014265	55.1	10.7	-44.4	61.9	0.173	8.66	64	0.5	1.1	101	480	3	19	4	273	1.90	9	< 10	38	< 0.5	2	1.09	10	
1227035084	100	14.4	-85.7	111	0.130	8.11	96	0.7	2.5	26	399	1	24	8	574	0.86	182	< 10	19	< 0.5	< 2	0.88	15	
1226014024	59.7	14.2	-45.5	65.5	0.217	8.67	75	0.8	2.1	98	363	1	14	4	521	1.73	12	< 10	35	< 0.5	7	1.03	9	
1224035151	43.7	20.0	-23.7	67.1	0.298	8.47	181	0.8	5.8	43	387	1	26	7	1490	0.83	103	< 10	25	< 0.5	< 2	0.94	16	
1227035096	40.7	67.8	27.1	53.6	1.26	8.83	142	1.8	< 0.5	38	1180	4	17	28	148	1.62	97	< 10	36	< 0.5	3	2.85	10	
1227035217	48.7	28.4	-20.3	61.6	0.461	8.75	433	2.2	1.3	37	1090	< 1	16	57	421	1.13	82	< 10	28	< 0.5	4	2.25	11	
1227035021	139	49.9	-89.6	170	0.293	8.20	256	6.9	0.8	33	741	2	27	25	192	1.25	119	< 10	16	< 0.5	< 2	1.77	20	
V860671							1130	4.7	< 0.5	24	140	7	6	< 2	27	0.64	< 2	< 10	24	< 0.5	4	0.60	5	
1226015038	11.5	79.5	67.9	19.9	3.99	9.02	22	0.3	< 0.5	122	707	< 1	57	< 2	50	5.24	< 2	10	15	< 0.5	< 2	3.83	27	
1226015155	3.13	19.5	16.3	3.06	6.35	8.92	6	0.3	< 0.5	119	696	< 1	56	< 2	49	5.20	< 2	10	16	< 0.5	< 2	3.76	27	
1227042199	30.1	13.8	-16.3	35.8	0.386	8.95	32	0.3	< 0.5	46	252	2	14	< 2	84	1.93	9	< 10	35	< 0.5	6	0.97	9	
1227042091	28.9	58.0	29.0	35.8	1.62	8.89	112	0.9	1.2	42	564	1	12	2	320	2.12	11	< 10	39	< 0.5	5	1.83	8	
1226015356	14.3	7.09	-7.17	18.7	0.380	8.81	15	< 0.2	< 0.5	25	448	1	11	4	268	3.12	3	< 10	60	< 0.5	2	1.24	10	
1226015255	3.13	11.7	8.59	3.06	3.82	9.04	6	< 0.2	< 0.5	112	677	< 1	55	< 2	74	5.10	2	< 10	14	< 0.5	< 2	3.46	25	
1226015228	17.9	8.84	-9.07	23.3	0.380	8.72	26	0.2	0.9	18	592	1	10	22	331	2.94	7	10	35	< 0.5	2	1.21	10	
1226015203	9.68	19.5	9.85	13.5	1.45	9.04	45	0.2	0.6	61	543	< 1	32	< 2	167	3.63	4	17	78	< 0.5	< 2	2.16	17	
1226015100	29.4	8.11	-21.3	35.8	0.226	8.70	183	1.7	< 0.5	44	525	1	14	15	108	3.12	21	< 10	37	< 0.5	3	1.85	10	
1226015265	46.8	10.1	-36.7	56.3	0.179	8.67	50	0.3	< 0.5	23	382	< 1	12	3	80	2.71	23	< 10	37	< 0.5	3	1.50	9	
1226015222	13.5	11.0	-2.57	17.5	0.628	8.72	34	0.3	< 0.5	42	508	< 1	11	7	281	3.46	6	11	45	< 0.5	< 2	1.48	8	
1226015159	29.8	11.9	-17.9	36.4	0.325	8.78	149	0.8	5.4	64	523	< 1	11	6	1330	3.04	9	11	38	< 0.5	4	1.43	9	
1226015080	16.6	16.0	-0.600	23.0	0.695	8.94	677	2.2	12.5	103	558	1	10	104	2430	3.21	103	4	19	49	< 0.5	4	1.50	8
1226015002	72.2	12.7	-59.5	81.8	0.155	8.65	182	0.4	< 0.5	113	429	1	13	5	68	1.80	12	< 10	28	< 0.5	4	0.85	9	
1226015062	22.8	22.3	-0.491	28.5	0.783	8.87	122	0.7	0.6	44	702	< 1	12	20	259	2.69	18	13	35	< 0.5	4	2.19	7	
1227042115	95.3	12.1	-83.2	110	0.110	8.65	144	8.0	2.5	831	337	3	10	5	441	1.79	23	< 10	17	< 0.5	44	0.82	12	
1226015064	32.7	13.0	-19.7	39.8	0.326	8.80	466	0.7	2.4	121	464	1	10	6	881	2.20	10	13	45	< 0.5	3	1.02	10	
1226015106	15.7	21.8	6.12	20.8	1.05	8.87	65	0.3	< 0.5	41	414	1	19	6	77	3.14	3	23	58	< 0.5	2	1.81	13	

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1227035019	246	2.21	< 10	< 1	0.32	14	1.28	0.072	0.036	1.46	< 2	< 1	43	< 0.01	< 1	< 2	< 10	8	< 10	2	13	0.70	1.44
1227041095	227	2.07	< 10	< 1	0.22	42	0.52	0.042	0.063	1.02	< 2	< 1	58	< 0.01	1	< 2	< 10	5	< 10	3	3	0.64	0.93
1227035241	260	1.74	< 10	< 1	0.20	< 10	0.18	0.022	0.040	1.75	< 2	< 1	22	< 0.01	1	< 2	< 10	2	< 10	2	8	0.88	1.72
1226014265	366	2.75	< 10	< 1	0.19	15	0.92	0.170	0.041	2.04	< 2	1	84	0.04	4	< 2	< 10	15	10	3	17	0.16	2.02
1227035084	329	3.63	< 10	< 1	0.28	11	0.23	0.026	0.032	3.86	4	< 1	21	< 0.01	< 1	< 2	< 10	5	< 10	1	16	0.38	3.62
1226014024	350	2.60	< 10	< 1	0.20	17	0.88	0.135	0.045	2.29	3	< 1	45	< 0.01	3	< 2	< 10	7	< 10	2	16	0.30	2.14
1224035151	337	3.18	< 10	< 1	0.26	13	0.17	0.028	0.031	3.38	4	< 1	28	< 0.01	< 1	< 2	< 10	4	< 10	1	14	0.26	2.19
1227035096	165	2.52	< 10	< 1	0.31	18	1.19	0.052	0.046	1.88	< 2	< 1	46	< 0.01	< 1	< 2	< 10	8	< 10	2	10	0.98	1.75
1227035217	167	2.92	< 10	< 1	0.26	17	0.58	0.043	0.048	2.24	3	< 1	31	< 0.01	< 1	< 2	< 10	6	< 10	2	11	0.80	2.01
1227035021	228	5.57	< 10	< 1	0.27	14	0.78	0.043	0.043	5.84	6	< 1	27	< 0.01	< 1	< 2	< 10	8	< 10	2	13	0.69	5.56
V860671	9	1.59	< 10	< 1	0.08	< 10	0.12	0.137	0.032	0.02	< 2	1	21	0.30	3	< 2	< 10	39	< 10	7	21		
1226015038	125	5.43	< 10	2	0.03	< 10	3.07	0.430	0.020	0.09	< 2	14	88	0.23	< 1	< 2	< 10	158	< 10	5	3	1.06	0.65
1226015155	123	5.46	< 10	< 1	0.03	< 10	3.02	0.424	0.020	0.10	< 2	13	86	0.22	< 1	< 2	< 10	157	< 10	4	3	0.23	0.10
1227042199	209	2.33	< 10	< 1	0.11	14	1.30	0.123	0.040	1.24	< 2	1	71	< 0.01	3	< 2	< 10	13	< 10	2	14	0.22	1.17
1227042091	159	2.24	< 10	< 1	0.16	13	1.03	0.116	0.038	1.30	< 2	< 1	51	< 0.01	3	< 2	< 10	9	< 10	2	10	0.45	1.17
1226015356	121	2.40	< 10	< 1	0.19	19	1.00	0.109	0.053	0.68	< 2	1	141	0.03	< 1	< 2	< 10	16	< 10	2	7	0.17	0.61
1226015255	123	4.70	< 10	< 1	0.03	< 10	2.48	0.409	0.020	0.09	< 2	9	75	0.20	3	< 2	< 10	127	< 10	4	4	0.16	0.10
1226015228	110	2.37	< 10	< 1	0.14	16	1.03	0.066	0.047	0.82	< 2	< 1	101	0.01	2	< 2	< 10	13	< 10	2	5	0.18	0.76
1226015203	104	3.41	< 10	< 1	0.30	11	1.82	0.172	0.038	0.40	3	6	62	0.10	3	< 2	< 10	67	< 10	3	10	0.26	0.44
1226015100	106	2.24	< 10	< 1	0.20	14	0.89	0.134	0.040	1.28	< 2	1	155	< 0.01	< 1	< 2	< 10	10	< 10	2	12	0.22	1.17
1226015265	102	2.56	< 10	< 1	0.24	17	0.96	0.168	0.043	2.15	< 2	< 1	130	0.02	< 1	< 2	< 10	9	< 10	2	23	0.14	1.84
1226015222	96	2.31	< 10	< 1	0.15	15	1.02	0.091	0.043	0.61	< 2	1	169	< 0.01	2	< 2	< 10	13	< 10	1	7	0.25	0.57
1226015159	83	2.67	< 10	< 1	0.15	15	1.03	0.100	0.044	1.25	< 2	1	131	0.02	1	< 2	< 10	18	< 10	2	13	0.15	1.19
1226015080	68	2.40	< 10	< 1	0.25	16	1.53	0.076	0.046	0.80	< 2	1	96	< 0.01	2	< 2	< 10	18	< 10	2	9	0.19	0.75
1226015002	140	3.37	< 10	< 1	0.17	15	1.14	0.039	0.036	2.68	< 2	< 1	40	< 0.01	2	< 2	< 10	8	< 10	2	17	0.37	2.67
1226015062	111	2.12	< 10	< 1	0.19	13	1.06	0.098	0.034	1.01	< 2	< 1	116	0.01	< 1	< 2	< 10	9	< 10	1	10	0.40	0.93
1227042115	64	4.40	< 10	< 1	0.30	14	1.05	0.050	0.042	3.82	3	< 1	34	0.02	2	< 2	< 10	10	< 10	2	25	0.18	3.58
1226015064	96	2.34	< 10	< 1	0.24	15	0.85	0.060	0.041	1.30	< 2	1	60	0.01	< 1	< 2	< 10	12	< 10	2	10	0.21	1.30
1226015106	104	2.66	< 10	< 1	0.27	15	1.59	0.117	0.041	0.68	< 2	4	79	0.06	< 1	< 2	< 10	41	< 10	3	11	0.26	0.68

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
V860672	
1226011011	
1226006098	
1228038168	
1226006013	
1228038203	
1226006023	
1226006042	
1228038292	
1228038298	
1226006044	
1227015017	
1227015066	
1227015148	
1227015347	
1226006001	
1226006416	
1226006433	
1227015135	
1227015270	
1226006435	
1227015137	
v860664	
1228038265	
1226006152	
1228038007	
1228038091	
1226006167	
1228038065	
1228038024	
1226011024	
1226006031	
1226006195	
1228038152	
1226006169	
1226006176	
1228038422	
1226006180	
1226011015	
1226006139	
v860665	
1226007151	
1226007127	
1232011029	
1227015273	
1227031036	
1227015010	
1227015169	
1227015200	
1227015240	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
1227016117	
1227015037	
1227015289	
1227015126	
1227016146	
1227015245	
1227015077	
v860666	
1227015257	
1226007069	
1226007022	
1226007074	
1226007051	
1226007100	
1226007019	
1232011032	
1226007125	
1226007198	
1227031099	
1226007173	
1227031090	
1226007169	
1227015183	
1227031052	
1226007163	
1227031007	
1226007129	
v860667	
1226022040	
1226022097	
1226022157	
1226022080	
1226022029	
1226022006	
1226022027	
1226014304	
1226014310	
1226022002	
1227030044	
1226022001	
1227030123	
1227041073	
1227041031	
1226014376	
1227030073	
1226014209	
1226014199	
1227041009	
V860668	
1227035138	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
1227014132	
1226014230	
1226014020	
1227035131	
1227035025	
1226014013	
1226014334	
1226014051	
1227035270	
1226014121	
1226014251	
1226014289	
1226014067	
1226014008	
1226014050	
1227035123	
1227035032	
1226004260	
V860669	
1227016047	
1227016045	
1227016024	
1227016126	
1227016186	
1227016101	
1227016037	
1227016090	
1226022182	
1227016057	
1227016050	
1226022273	
1226022107	
1227016023	
1226022268	
1227016020	
1227016240	
1227016014	
1226022172	10.4
1226022300	
1226022171	
1227016247	
1226022163	
1226022265	
1226022229	
V860670	
1227041039	
1226014082	
1226014293	
1224035235	
1226014074	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
1227035005	
1226014211	
1227035160	
1227035019	
1227041095	
1227035241	
1226014265	
1227035084	
1226014024	
1224035151	
1227035096	
1227035217	
1227035021	
V860671	
1226015038	
1226015155	
1227042199	
1227042091	
1226015356	
1226015255	
1226015228	
1226015203	
1226015100	
1226015265	
1226015222	
1226015159	
1226015080	
1226015002	
1226015062	
1227042115	
1226015064	
1226015106	

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
NBM-1 (slight fzz) Meas		42.4				8.55																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		42.4				8.35																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.0				8.58																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.0																					
NBM-1 (slight fzz) Cert		46.6																					
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2320	771	< 1	34	56	272	2.96	8		86	0.8	6	0.42	21
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2350	768	< 1	35	60	268	3.00	7		86	0.8	6	0.42	18
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								1.6	< 0.5	4660	863	< 1	32	80	353	3.07	9		74	0.7	22	0.43	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.6	< 0.5	4500	846	< 1	33	75	350	2.94	4		70	0.7	22	0.42	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 218 Meas								528															
OREAS 218 Cert								531															
OREAS 218 Meas								533															
OREAS 218 Cert								531															
OREAS 218 Meas								527															
OREAS 218 Cert								531															

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 218 Meas							547																
OREAS 218 Cert							531																
OREAS 218 Meas							546																
OREAS 218 Cert							531																
OREAS 218 Meas							521																
OREAS 218 Cert							531																
OREAS 218 Meas							538																
OREAS 218 Cert							531																
OREAS 229 (Fire Assay) Meas																							
OREAS 229 (Fire Assay) Cert																							
Oreas 621 (Aqua Regia) Meas								70.2	299	3800	536	13	24	> 5000	> 10000	1.89	82			0.6	< 2	1.71	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								67.9	285	3650	508	13	23	> 5000	> 10000	1.72	79			0.6	< 2	1.55	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 229b (Fire Assay) Meas																							
OREAS 229b (Fire Assay) Cert																							
OREAS 45f (Aqua Regia) Meas										369	166	< 1	227	9	27	7.50			141	1.1	3	0.07	38
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										355	167	< 1	222	3	27	7.37			141	1.0	5	0.07	36
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 238 (Fire Assay) Meas								3020															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3130															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3130															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3170															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3150															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3140															
OREAS 238 (Fire Assay) Cert								3030															

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Assay) Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
1228038298 Orig							40																
1228038298 Dup							40																
1226006044 Orig																							
1226006044 Dup																							
1227015066 Orig								< 0.2	< 0.5	111	591	< 1	62	< 2	51	5.43	< 2	11	17	< 0.5	< 2	3.79	26
1227015066 Dup								< 0.2	< 0.5	112	601	< 1	64	< 2	51	5.52	< 2	11	16	< 0.5	< 2	3.82	26
1227015270 Orig							145																
1227015270 Dup							140																
1226006435 Orig																							
1226006435 Dup																							
1228038091 Orig								3.8	6.1	45	1070	< 1	14	393	1460	0.87	94	< 10	26	< 0.5	< 2	1.22	10
1228038091 Dup								4.3	6.0	47	1080	< 1	14	396	1470	0.86	89	< 10	24	< 0.5	< 2	1.22	9
1228038024 Orig							388																
1228038024 Dup							409																
1226006195 Orig																							
1226006195 Dup																							
1226006139 Orig								0.7	< 0.5	283	385	2	18	< 2	39	3.60	13	12	27	< 0.5	8	1.30	13
1226006139 Dup								0.7	< 0.5	272	372	2	17	< 2	38	3.38	11	11	27	< 0.5	7	1.23	12
1232011029 Orig																							
1232011029 Dup																							
1227015273 Orig							13																
1227015273 Dup							23																
1227015200 Orig	3.13	13.1	9.96	3.06	4.27																		
1227015200 Dup	3.13	13.1	9.95	3.06	4.27																		
1227015126 Orig								0.2	< 0.5	118	477	< 1	47	< 2	50	5.50	< 2	< 10	22	< 0.5	< 2	3.68	23
1227015126 Dup								0.2	< 0.5	112	471	< 1	45	< 2	49	5.37	3	< 10	20	< 0.5	< 2	3.60	21
1227016146 Orig																							
1227016146 Dup																							
1226007019 Orig							388																
1226007019 Dup							366																
1232011032 Orig																							
1232011032 Dup																							
1227031052 Orig						8.85																	
1227031052 Dup						8.85																	

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1226007129 Orig								1.5	0.8	41	391	1	15	2	240	1.82	25	< 10	42	< 0.5	6	0.64	8
1226007129 Dup								1.7	0.8	41	398	< 1	15	2	255	1.89	26	< 10	35	< 0.5	7	0.66	7
1226022097 Orig							61																
1226022097 Dup							74																
1226022002 Orig																							
1226022002 Dup																							
1226022001 Orig							94																
1226022001 Dup							101																
1227030123 Orig								1.1	0.7	82	760	2	37	4	176	1.86	9	< 10	56	< 0.5	7	2.20	12
1227030123 Dup								1.0	0.8	81	769	2	38	4	181	1.88	10	< 10	54	< 0.5	6	2.22	11
1226014199 Orig	2.18	8.61	6.43	5.21	1.65																		
1226014199 Dup	2.18	8.58	6.40	5.21	1.65																		
1227035138 Orig							972																
1227035138 Dup							1080																
1227035131 Orig								0.4	0.7	70	903	2	33	16	218	3.37	17	< 10	62	< 0.5	< 2	2.95	17
1227035131 Dup								0.4	0.6	69	883	2	32	16	210	3.28	18	< 10	58	< 0.5	< 2	2.89	17
1226014121 Orig																							
1226014121 Dup																							
1226014050 Orig							145																
1226014050 Dup							134																
1226004260 Orig								0.7	< 0.5	10	500	1	11	16	89	2.88	17	< 10	41	< 0.5	3	1.44	6
1226004260 Dup								0.6	< 0.5	10	488	< 1	12	15	88	2.77	18	< 10	39	< 0.5	4	1.42	6
1227016024 Orig																							
1227016024 Dup																							
1227016101 Orig							490																
1227016101 Dup							450																
1226022107 Orig																							
1226022107 Dup																							
1226022268 Orig								0.5	< 0.5	202	237	2	19	< 2	27	3.45	4	< 10	43	< 0.5	9	1.32	6
1226022268 Dup								0.6	< 0.5	204	240	2	19	< 2	26	3.60	4	< 10	47	< 0.5	8	1.34	6
1227016020 Orig							273																
1227016020 Dup							284																
1226022172 Orig																							
1226022265 Orig																							
1226022265 Dup																							
1227041039 Orig	44.8	33.7	-11.1	51.5	0.655																		
1227041039 Dup	44.8	33.7	-11.1	51.5	0.655																		
1226014293 Orig						9.15		0.4	< 0.5	72	485	3	35	< 2	126	1.91	7	< 10	41	< 0.5	3	1.25	9
1226014293 Dup						9.14		0.5	< 0.5	71	460	3	16	< 2	123	1.80	7	< 10	38	< 0.5	3	1.21	9
1226014074 Orig							51																
1226014074 Dup							50																
1227035019 Orig																							
1227035019 Dup																							
1224035151 Orig							198																
1224035151 Dup							164																
1227035096 Orig								1.9	< 0.5	39	1180	4	17	27	149	1.63	93	< 10	36	< 0.5	2	2.86	10
1227035096 Dup								1.8	< 0.5	37	1170	4	17	28	147	1.61	101	< 10	36	< 0.5	3	2.85	10
1226015155 Orig																							
1226015155 Dup																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1226015255 Orig							6																
1226015255 Dup							5																
1226015222 Orig								0.3	< 0.5	42	510	< 1	11	5	280	3.42	8	11	44	< 0.5	5	1.48	7
1226015222 Dup								0.3	< 0.5	41	506	< 1	10	9	282	3.49	3	12	47	< 0.5	< 2	1.49	10
1226015159 Orig																							
1226015159 Dup																							
1227042115 Orig							146																
1227042115 Dup							141																
1226015064 Orig						8.80																	
1226015064 Dup						8.80																	
1226015106 Orig	15.7	21.8	6.10	20.8	1.05																		
1226015106 Dup	15.7	21.9	6.15	20.8	1.05																		
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank							< 5																
Method Blank																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
GXR-6 Meas	84	5.90	20	2	1.19	< 10	0.41	0.123	0.035	0.01	3	19	29		< 1	< 2	< 10	176	< 10	4	8			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
GXR-6 Meas	84	6.09	20	1	1.18	< 10	0.40	0.116	0.035	0.01	4	19	28		< 1	< 2	< 10	177	< 10	4	8			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
BaSO4 Meas																							13.9	
BaSO4 Cert																								14.0
BaSO4 Meas																								13.6
BaSO4 Cert																								14.0
BaSO4 Meas																								13.9
BaSO4 Cert																								14.0
BaSO4 Meas																								13.8
BaSO4 Cert																								14.0
BaSO4 Meas																								13.8
BaSO4 Cert																								14.0
BaSO4 Meas																								13.9
BaSO4 Cert																								14.0
BaSO4 Meas																								13.8
BaSO4 Cert																								14.0
BaSO4 Meas																								14.2
BaSO4 Cert																								14.0
BaSO4 Meas																								14.0
BaSO4 Cert																								14.0
SGR-1b Meas																							27.3	1.52
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.6	1.53
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.5	1.53
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.5	1.53
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.4	1.54
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.9	1.55
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.5	1.53
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.8	1.54
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.6	1.51
SGR-1b Cert																							28	1.53
GS311-4 Meas																							1.11	0.54
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.10	0.52
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.11	0.54
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.10	0.54
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.10	0.52
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.09	0.53

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
GS311-4 Cert																						1.11	0.54	
GS311-4 Meas																							1.09	0.55
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.11	0.55
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.11	0.53
GS311-4 Cert																							1.11	0.54
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
OREAS 922 (AQUA REGIA) Meas	48	5.30	< 10		0.50	39	1.36	0.033	0.065	0.38	< 2	4	17			< 2	< 10	36	< 10	20	33			
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3			
OREAS 922 (AQUA REGIA) Meas	48	5.47	< 10		0.50	39	1.38	0.033	0.065	0.38	3	4	17			< 2	< 10	36	< 10	20	31			
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3			
OREAS 923 (AQUA REGIA) Meas	46	6.24	< 10		0.46	37	1.49		0.061	0.70	3	4	15			< 2	< 10	37	< 10	18	23			
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5			
OREAS 923 (AQUA REGIA) Meas	44	6.09	< 10		0.43	36	1.45		0.061	0.67	3	4	15			< 2	< 10	36	< 10	18	34			
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5			
OREAS 218 Meas																								
OREAS 218 Cert																								
OREAS 218 Meas																								
OREAS 218 Cert																								
OREAS 218 Meas																								
OREAS 218 Cert																								
OREAS 218 Meas																								
OREAS 218 Cert																								
OREAS 218 Meas																								
OREAS 218 Cert																								
OREAS 218 Meas																								
OREAS 218 Cert																								

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 229 (Fire Assay) Meas																							
OREAS 229 (Fire Assay) Cert																							
Oreas 621 (Aqua Regia) Meas	32	3.49	10	4	0.41	21	0.45	0.164	0.034	4.76	125	3	19			< 2	< 10	13	< 10	7	69		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	31	3.36	< 10	4	0.38	20	0.43	0.150	0.033	4.49	122	2	18			< 2	< 10	13	< 10	7	65		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 229b (Fire Assay) Meas																							
OREAS 229b (Fire Assay) Cert																							
OREAS 45f (Aqua Regia) Meas	363	14.7	20	< 1	0.11	10	0.18	0.047	0.021	0.02		26	14	0.11		2	< 10	208		4	16		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 45f (Aqua Regia) Meas	359	14.2	20	2	0.11	11	0.18	0.047	0.021	0.02		26	14	0.12		< 2	< 10	205		4	17		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.05	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.32
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.36
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.32
GS316-3 Cert																						0.0600	0.340
1228038298 Orig																							
1228038298 Dup																							
1226006044 Orig																						0.31	1.29
1226006044 Dup																						0.30	1.29
1227015066 Orig	281	5.28	< 10	2	0.04	< 10	2.68	0.427	0.019	0.09	3	10	79	0.21	1	< 2	< 10	140	< 10	4	3		
1227015066 Dup	282	5.42	< 10	2	0.05	< 10	2.69	0.430	0.019	0.09	< 2	10	79	0.21	1	< 2	< 10	141	< 10	4	3		
1227015270 Orig																							
1227015270 Dup																							
1226006435 Orig																						0.39	0.97
1226006435 Dup																						0.39	0.95
1228038091 Orig	210	3.79	< 10	< 1	0.36	10	0.50	0.037	0.040	3.98	5	< 1	29	< 0.01	2	< 2	< 10	5	< 10	2	12		
1228038091 Dup	209	3.85	< 10	< 1	0.35	10	0.51	0.037	0.039	4.10	5	< 1	29	< 0.01	3	< 2	< 10	5	< 10	2	12		
1228038024 Orig																							
1228038024 Dup																							
1226006195 Orig																						0.30	2.28
1226006195 Dup																						0.29	2.29
1226006139 Orig	372	3.86	< 10	< 1	0.16	20	1.16	0.166	0.035	1.36	3	1	108	0.03	1	< 2	< 10	18	< 10	2	14		
1226006139 Dup	359	3.66	< 10	< 1	0.15	20	1.12	0.155	0.035	1.29	3	1	100	0.03	2	< 2	< 10	17	< 10	2	14		
1232011029 Orig																						0.37	0.61
1232011029 Dup																						0.37	0.64
1227015273 Orig																							
1227015273 Dup																							
1227015200 Orig																							
1227015200 Dup																							
1227015126 Orig	134	4.62	< 10	2	0.07	< 10	1.86	0.525	0.019	0.08	< 2	6	61	0.20	3	< 2	< 10	134	< 10	4	3		
1227015126 Dup	131	4.44	< 10	2	0.07	< 10	1.81	0.509	0.018	0.07	< 2	6	60	0.20	2	< 2	< 10	129	< 10	4	3		
1227016146 Orig																						0.34	2.97
1227016146 Dup																						0.34	2.92
1226007019 Orig																							
1226007019 Dup																							
1232011032 Orig																						0.46	0.43
1232011032 Dup																						0.45	0.45
1227031052 Orig																							
1227031052 Dup																							
1226007129 Orig	264	2.45	< 10	< 1	0.40	13	1.27	0.041	0.041	1.48	2	< 1	21	< 0.01	3	< 2	< 10	10	< 10	1	13	0.26	1.45
1226007129 Dup	271	2.59	< 10	< 1	0.41	13	1.32	0.041	0.042	1.56	< 2	< 1	21	< 0.01	2	< 2	< 10	10	< 10	2	14	0.24	1.46
1226022097 Orig																							
1226022097 Dup																							
1226022002 Orig																						0.45	3.67
1226022002 Dup																						0.45	3.64
1226022001 Orig																							
1226022001 Dup																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1227030123 Orig	284	2.68	< 10	< 1	0.26	17	1.28	0.076	0.049	1.56	< 2	2	49	0.01	2	< 2	< 10	16	< 10	3	12		
1227030123 Dup	283	2.70	< 10	< 1	0.26	18	1.29	0.078	0.049	1.55	< 2	2	50	0.01	2	< 2	< 10	16	< 10	3	10		
1226014199 Orig																							
1226014199 Dup																							
1227035138 Orig																						0.70	3.70
1227035138 Dup																						0.71	3.61
1227035131 Orig	287	3.62	< 10	< 1	0.39	13	1.52	0.204	0.041	1.11	4	4	54	0.10	< 1	< 2	< 10	54	< 10	3	11		
1227035131 Dup	291	3.55	< 10	< 1	0.37	13	1.48	0.194	0.040	1.08	< 2	4	52	0.10	< 1	< 2	< 10	52	< 10	3	11		
1226014121 Orig																						0.29	1.60
1226014121 Dup																						0.28	1.60
1226014050 Orig																							
1226014050 Dup																							
1226004260 Orig	221	2.32	< 10	< 1	0.22	16	0.81	0.099	0.044	1.60	< 2	< 1	119	0.01	1	< 2	< 10	10	< 10	2	16		
1226004260 Dup	219	2.25	< 10	< 1	0.21	16	0.79	0.096	0.043	1.52	< 2	< 1	114	0.01	2	< 2	< 10	10	< 10	2	16		
1227016024 Orig																						0.03	0.12
1227016024 Dup																						0.04	0.13
1227016101 Orig																							
1227016101 Dup																							
1226022107 Orig																						0.05	1.46
1226022107 Dup																						0.05	1.42
1226022268 Orig	543	3.09	< 10	1	0.21	11	0.70	0.259	0.035	1.48	3	< 1	163	< 0.01	< 1	< 2	< 10	11	< 10	2	13		
1226022268 Dup	560	3.14	< 10	< 1	0.22	11	0.70	0.268	0.035	1.53	3	< 1	170	< 0.01	3	< 2	< 10	11	< 10	2	14		
1227016020 Orig																							
1227016020 Dup																							
1226022172 Orig																							
1226022265 Orig																						0.15	0.97
1226022265 Dup																						0.16	0.92
1227041039 Orig																							
1227041039 Dup																							
1226014293 Orig	290	2.72	< 10	< 1	0.18	15	0.87	0.178	0.040	1.97	< 2	1	108	0.04	2	< 2	< 10	16	17	3	16		
1226014293 Dup	280	2.55	< 10	< 1	0.17	14	0.82	0.171	0.038	1.90	2	1	103	0.04	2	< 2	< 10	15	< 10	3	15		
1226014074 Orig																							
1226014074 Dup																							
1227035019 Orig																						0.69	1.42
1227035019 Dup																						0.70	1.45
1224035151 Orig																							
1224035151 Dup																							
1227035096 Orig	165	2.53	< 10	< 1	0.32	19	1.20	0.054	0.046	1.88	< 2	< 1	46	< 0.01	< 1	< 2	< 10	8	< 10	2	10		
1227035096 Dup	164	2.52	< 10	< 1	0.31	17	1.18	0.051	0.046	1.88	< 2	< 1	45	< 0.01	3	< 2	< 10	8	< 10	2	10		
1226015155 Orig																						0.23	0.10
1226015155 Dup																						0.24	0.10
1226015255 Orig																							
1226015255 Dup																							
1226015222 Orig	98	2.31	< 10	< 1	0.15	15	1.02	0.091	0.043	0.61	< 2	1	167	< 0.01	1	< 2	< 10	13	< 10	2	5		
1226015222 Dup	95	2.32	< 10	< 1	0.16	15	1.01	0.092	0.042	0.61	< 2	1	170	0.01	2	< 2	< 10	13	< 10	1	8		
1226015159 Orig																						0.15	1.20
1226015159 Dup																						0.14	1.18
1227042115 Orig																							
1227042115 Dup																							
1226015064 Orig																							
1226015064 Dup																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
1226015106 Orig																						0.26	0.69	
1226015106 Dup																							0.26	0.68
Method Blank																								
Method Blank																								
Method Blank																								
Method Blank																								
Method Blank																								
Method Blank																								
Method Blank																								
Method Blank																								
Method Blank																								
Method Blank																								
Method Blank																								
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1			
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1			
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1			
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1			
Method Blank																								
Method Blank																								

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 923 (AQUA REGIA) Meas	
OREAS 923 (AQUA REGIA) Cert	
OREAS 923 (AQUA REGIA) Meas	
OREAS 923 (AQUA REGIA) Cert	
OREAS 218 Meas	
OREAS 218 Cert	
OREAS 218 Meas	
OREAS 218 Cert	
OREAS 218 Meas	
OREAS 218 Cert	
OREAS 218 Meas	
OREAS 218 Cert	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
OREAS 218 Meas	
OREAS 218 Cert	
OREAS 218 Meas	
OREAS 218 Cert	
OREAS 218 Meas	
OREAS 218 Cert	
OREAS 229 (Fire Assay) Meas	11.9
OREAS 229 (Fire Assay) Cert	12.1
Oreas 621 (Aqua Regia) Meas	
Oreas 621 (Aqua Regia) Cert	
Oreas 621 (Aqua Regia) Meas	
Oreas 621 (Aqua Regia) Cert	
OREAS 229b (Fire Assay) Meas	11.8
OREAS 229b (Fire Assay) Cert	11.9
OREAS 45f (Aqua Regia) Meas	
OREAS 45f (Aqua Regia) Cert	
OREAS 45f (Aqua Regia) Meas	
OREAS 45f (Aqua Regia) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
GS316-3 Meas	
GS316-3 Cert	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
1228038298 Orig	
1228038298 Dup	
1226006044 Orig	
1226006044 Dup	
1227015066 Orig	
1227015066 Dup	
1227015270 Orig	
1227015270 Dup	
1226006435 Orig	
1226006435 Dup	
1228038091 Orig	
1228038091 Dup	
1228038024 Orig	
1228038024 Dup	
1226006195 Orig	
1226006195 Dup	
1226006139 Orig	
1226006139 Dup	
1232011029 Orig	
1232011029 Dup	
1227015273 Orig	
1227015273 Dup	
1227015200 Orig	
1227015200 Dup	
1227015126 Orig	
1227015126 Dup	
1227016146 Orig	
1227016146 Dup	
1226007019 Orig	
1226007019 Dup	
1232011032 Orig	
1232011032 Dup	
1227031052 Orig	
1227031052 Dup	
1226007129 Orig	
1226007129 Dup	
1226022097 Orig	
1226022097 Dup	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
1226022002 Orig	
1226022002 Dup	
1226022001 Orig	
1226022001 Dup	
1227030123 Orig	
1227030123 Dup	
1226014199 Orig	
1226014199 Dup	
1227035138 Orig	
1227035138 Dup	
1227035131 Orig	
1227035131 Dup	
1226014121 Orig	
1226014121 Dup	
1226014050 Orig	
1226014050 Dup	
1226004260 Orig	
1226004260 Dup	
1227016024 Orig	
1227016024 Dup	
1227016101 Orig	
1227016101 Dup	
1226022107 Orig	
1226022107 Dup	
1226022268 Orig	
1226022268 Dup	
1227016020 Orig	
1227016020 Dup	
1226022172 Orig	10.4
1226022265 Orig	
1226022265 Dup	
1227041039 Orig	
1227041039 Dup	
1226014293 Orig	
1226014293 Dup	
1226014074 Orig	
1226014074 Dup	
1227035019 Orig	
1227035019 Dup	
1224035151 Orig	
1224035151 Dup	
1227035096 Orig	
1227035096 Dup	
1226015155 Orig	
1226015155 Dup	
1226015255 Orig	
1226015255 Dup	
1226015222 Orig	
1226015222 Dup	
1226015159 Orig	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
1226015159 Dup	
1227042115 Orig	
1227042115 Dup	
1226015064 Orig	
1226015064 Dup	
1226015106 Orig	
1226015106 Dup	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
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Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	< 0.02



Report No.: A20-05525
Report Date: 26-Jun-20
Date Submitted: 28-May-20
Your Reference: April 2020 Check Assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

183 Pulp samples were submitted for analysis.

Table with 3 columns: The following analytical package(s) were requested, Testing Date, and sample details.

REPORT A20-05525

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

<original signed by>

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Report No.: A20-05525
Report Date: 26-Jun-20
Date Submitted: 28-May-20
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New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

183 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek Package	Acid Base Accounting	2020-06-11 16:32:57
4F-C, S	Infrared	2020-06-11 19:48:14

REPORT A20-05525

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

<original signed by>

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

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Results

Activation Laboratories Ltd.

Report: A20-05525

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1226018204	20.9	17.4	-3.48	27.6	0.633	8.95	371	0.6	< 0.5	115	568	2	14	4	81	2.72	8	< 10	68	< 0.5	2	2.15	10
1225003245	4.57	10.6	6.02	10.4	1.02	8.85	35	< 0.2	< 0.5	10	397	2	13	7	135	3.03	7	< 10	31	< 0.5	3	1.41	9
1225001020	42.2	47.6	5.39	49.6	0.959	8.70	785	1.2	3.5	63	948	< 1	32	29	782	1.99	81	< 10	41	< 0.5	< 2	2.19	14
1226018229	38.9	11.9	-27.1	49.3	0.241	8.45	257	0.7	< 0.5	120	527	2	14	4	92	2.77	14	< 10	46	< 0.5	6	1.65	9
1226008309	38.8	12.2	-26.6	43.2	0.283	8.49	239	0.4	< 0.5	126	371	2	10	< 2	55	2.06	8	< 10	42	< 0.5	4	0.82	8
1225001408	37.6	15.6	-22.0	42.9	0.364	8.57	170	0.8	2.8	64	817	1	16	103	596	2.48	48	< 10	33	< 0.5	< 2	1.97	9
1226018004	48.9	53.8	4.86	55.4	0.971	8.42	57	0.5	< 0.5	6	1060	< 1	13	13	129	1.38	12	< 10	37	< 0.5	4	2.34	8
1226018222	81.4	11.5	-69.9	88.5	0.130	8.35	410	0.9	< 0.5	299	323	1	13	4	49	1.61	19	< 10	36	< 0.5	9	0.91	9
1226018257	40.9	75.6	34.7	46.5	1.62	8.43	1030	0.8	< 0.5	263	517	2	13	4	54	2.12	16	< 10	34	< 0.5	12	0.71	9
1226018216	25.4	15.1	-10.3	30.6	0.493	8.73	486	1.3	< 0.5	228	609	3	17	4	58	2.91	6	< 10	64	< 0.5	5	1.97	8
1226018265	19.6	21.6	2.03	24.8	0.871	9.07	113	0.3	< 0.5	51	508	4	23	3	95	1.78	6	< 10	49	< 0.5	3	1.33	9
1225001018	74.5	5.62	-68.8	84.2	0.0668	8.50	2020	1.1	5.5	44	608	1	17	24	1350	1.27	168	< 10	28	< 0.5	< 2	0.32	11
1225001071	53.1	19.0	-34.1	60.3	0.315	8.68	263	1.4	9.4	95	673	2	15	110	2040	2.24	48	< 10	27	< 0.5	< 2	1.76	9
V860686							688	3.2	< 0.5	34	278	14	12	16	45	1.16	< 2	< 10	60	< 0.5	< 2	2.06	10
1226019027	5.10	13.7	8.62	8.27	1.66	9.18	29	0.3	< 0.5	115	618	< 1	49	< 2	74	4.59	6	< 10	20	< 0.5	< 2	3.59	22
1225001169	20.4	23.0	2.63	26.3	0.875	8.84	226	1.3	0.6	203	491	3	15	17	193	1.44	41	< 10	31	< 0.5	< 2	1.32	8
1226019273	70.3	80.2	9.92	79.9	1.00	8.71	415	2.3	< 0.5	34	1190	1	19	14	153	0.76	97	< 10	21	< 0.5	< 2	2.90	15
1226008137	17.1	44.1	27.0	22.4	1.97	9.25	69	0.6	3.3	73	695	1	11	5	710	1.01	9	< 10	93	< 0.5	3	1.82	7
1226019019	43.8	77.3	33.5	57.6	1.34	8.91	156	1.3	< 0.5	24	1010	1	16	12	90	1.25	89	< 10	35	< 0.5	< 2	3.27	11
1226019190	26.6	29.4	2.86	34.0	0.865	9.03	25	0.2	< 0.5	83	565	3	19	< 2	46	1.91	10	14	59	< 0.5	< 2	1.84	16
1226008239	38.9	8.99	-30.0	46.2	0.194	8.62	401	0.5	< 0.5	215	290	1	13	3	38	2.72	9	< 10	43	< 0.5	6	1.25	7
1226019097	5.94	15.2	9.29	5.82	2.62	9.17	11	0.3	< 0.5	115	719	< 1	55	< 2	66	4.79	3	< 10	21	< 0.5	2	3.64	25
1226019285	2.50	9.34	6.84	2.45	3.81	9.35	7	< 0.2	< 0.5	125	497	< 1	51	< 2	44	5.01	< 2	< 10	16	< 0.5	2	3.89	23
1225001146	55.0	28.8	-26.2	63.7	0.452	8.70	244	3.8	1.7	36	929	2	14	31	412	1.93	34	< 10	30	< 0.5	3	1.78	9
1226019290	7.91	25.3	17.4	14.7	1.72	9.02	25	0.6	< 0.5	29	689	2	14	13	101	2.62	21	< 10	33	< 0.5	3	1.81	9
1226008286	42.8	5.85	-37.0	46.9	0.125	8.64	378	0.6	< 0.5	235	280	2	12	2	44	2.83	7	< 10	41	< 0.5	6	1.14	8
1226019116	50.8	13.2	-37.6	55.7	0.237	8.66	44	0.8	< 0.5	12	623	< 1	14	15	116	2.63	17	< 10	30	< 0.5	4	1.12	8
1226019216	45.2	20.6	-24.6	54.2	0.380	8.72	158	3.9	1.0	15	655	< 1	15	162	399	1.85	24	11	33	< 0.5	5	1.21	9
1225001015	50.2	14.2	-36.0	58.5	0.243	8.66	1080	0.8	6.8	52	799	< 1	21	17	1630	1.67	101	< 10	35	< 0.5	< 2	0.70	11
1226008378	67.7	7.22	-60.5	74.7	0.0966	8.11	679	0.5	< 0.5	254	204	1	10	< 2	23	1.81	5	< 10	31	< 0.5	6	0.96	7
1226019197	10.3	17.8	7.50	15.9	1.12	8.97	14	1.7	< 0.5	127	586	1	15	8	79	2.84	18	< 10	41	< 0.5	< 2	1.86	11
1225001212	37.0	9.62	-27.4	42.3	0.228	8.63	102	1.3	1.3	43	446	2	12	16	307	2.49	16	< 10	34	< 0.5	3	1.48	8
1226019220	20.9	18.5	-2.45	29.7	0.622	8.81	51	1.0	0.7	24	616	1	13	31	269	2.59	15	15	29	< 0.5	4	1.56	8
1225001213	53.1	37.4	-15.7	66.2	0.565	8.62	254	4.2	1.3	52	988	2	16	103	329	1.69	50	< 10	28	< 0.5	4	2.06	10
1262019012	18.2	18.1	-0.170	23.0	0.786	8.86	26	0.5	< 0.5	23	472	1	14	9	123	2.33	12	< 10	33	< 0.5	3	1.51	8
1226019109	38.3	21.8	-16.5	45.0	0.484	8.80	109	2.2	1.1	36	552	1	12	36	419	2.53	25	< 10	41	< 0.5	6	1.66	9
1226019210	72.6	23.4	-49.2	81.2	0.288	8.36	188	0.7	3.0	28	801	1	13	19	917	1.76	16	< 10	31	< 0.5	2	1.41	9
V860687							117	1.7	< 0.5	61	363	4	13	9	67	1.47	< 2	< 10	81	< 0.5	< 2	1.19	14

Results

Activation Laboratories Ltd.

Report: A20-05525

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1226018257	174	3.23	< 10	< 1	0.21	15	1.25	0.067	0.039	1.53	< 2	< 1	45	< 0.01	2	< 2	< 10	10	< 10	2	15	0.18	1.52
1226018216	262	2.57	< 10	< 1	0.37	15	0.83	0.291	0.046	1.07	2	1	166	0.08	< 1	< 2	< 10	21	< 10	2	15	0.34	1.00
1226018265	253	2.28	< 10	< 1	0.19	14	0.86	0.140	0.039	0.82	< 2	1	103	0.03	< 1	< 2	< 10	15	< 10	2	12	0.37	0.81
1225001018	118	3.49	< 10	< 1	0.26	13	0.77	0.030	0.041	2.91	3	< 1	19	< 0.01	< 1	< 2	< 10	8	< 10	1	12	0.06	2.75
1225001071	132	2.39	< 10	< 1	0.21	13	0.95	0.177	0.039	1.97	< 2	< 1	51	0.02	< 1	< 2	< 10	9	< 10	2	19	0.31	1.97
V860686	13	3.21	< 10	< 1	0.25	17	0.45	0.166	0.047	0.04	< 2	3	50	0.30	4	< 2	< 10	61	< 10	16	9		
1226019027	175	4.63	< 10	1	0.09	< 10	1.94	0.460	0.023	0.24	< 2	7	71	0.21	2	< 2	< 10	130	< 10	4	4	0.18	0.27
1225001169	288	1.91	< 10	< 1	0.15	12	0.47	0.081	0.037	0.89	< 2	< 1	77	< 0.01	< 1	< 2	< 10	8	< 10	2	11	0.42	0.86
1226019273	124	2.87	< 10	< 1	0.24	15	0.72	0.039	0.050	2.78	2	< 1	30	< 0.01	< 1	< 2	< 10	6	< 10	3	12	1.13	2.61
1226008137	204	1.95	< 10	< 1	0.29	48	0.72	0.045	0.069	0.74	< 2	< 1	152	< 0.01	< 1	2	< 10	8	< 10	4	4	0.66	0.73
1226019019	125	2.51	< 10	< 1	0.29	22	0.79	0.047	0.055	1.95	< 2	< 1	46	< 0.01	< 1	< 2	< 10	9	< 10	2	12	0.97	1.88
1226019190	117	2.53	< 10	< 1	0.47	16	1.08	0.053	0.042	1.09	< 2	3	31	0.08	2	< 2	< 10	26	< 10	3	12	0.38	1.11
1226008239	189	3.37	< 10	< 1	0.19	15	0.96	0.146	0.037	1.45	3	< 1	131	< 0.01	< 1	< 2	< 10	12	< 10	2	11	0.17	1.51
1226019097	159	4.81	< 10	3	0.07	< 10	2.18	0.489	0.023	0.18	< 2	8	76	0.19	1	< 2	< 10	124	< 10	4	3	0.21	0.19
1226019285	151	4.83	< 10	2	0.05	< 10	2.18	0.515	0.019	0.07	< 2	9	69	0.21	< 1	< 2	< 10	140	< 10	4	2	0.15	0.08
1225001146	125	2.41	< 10	< 1	0.23	15	0.95	0.077	0.043	2.18	< 2	< 1	50	< 0.01	< 1	< 2	< 10	8	< 10	2	19	0.45	2.08
1226019290	147	2.00	< 10	< 1	0.19	12	1.03	0.076	0.036	0.48	< 2	1	74	< 0.01	< 1	< 2	< 10	11	< 10	1	8	0.34	0.48
1226008286	174	3.40	< 10	< 1	0.18	15	1.02	0.150	0.037	1.45	< 2	< 1	139	< 0.01	< 1	2	< 10	12	< 10	2	10	0.18	1.53
1226019116	159	2.09	< 10	< 1	0.23	14	1.39	0.156	0.040	1.78	< 2	< 1	47	< 0.01	< 1	< 2	< 10	11	< 10	2	14	0.16	1.82
1226019216	111	2.11	< 10	< 1	0.32	14	1.45	0.046	0.039	1.79	< 2	1	29	0.01	2	< 2	< 10	11	< 10	2	14	0.27	1.77
1225001015	134	3.19	< 10	< 1	0.39	16	1.27	0.031	0.053	1.93	2	2	38	0.01	< 1	< 2	< 10	18	< 10	2	13	0.29	1.91
1226008378	216	3.67	< 10	< 1	0.19	12	0.66	0.107	0.033	2.47	< 2	< 1	67	0.02	2	< 2	< 10	7	< 10	2	20	0.22	2.44
1226019197	183	1.94	< 10	< 1	0.20	11	0.79	0.258	0.034	0.50	< 2	1	165	0.02	< 1	< 2	< 10	12	< 10	1	6	0.25	0.52
1225001212	169	2.01	< 10	< 1	0.19	17	0.65	0.143	0.045	1.39	< 2	< 1	165	< 0.01	2	< 2	< 10	8	< 10	2	10	0.23	1.38
1226019220	160	1.98	< 10	< 1	0.18	11	1.12	0.070	0.033	1.07	< 2	< 1	62	< 0.01	1	< 2	< 10	10	< 10	1	13	0.23	0.97
1225001213	179	2.57	< 10	< 1	0.19	16	0.76	0.083	0.048	2.27	3	< 1	88	< 0.01	3	< 2	< 10	7	< 10	2	16	0.62	2.16
1262019012	209	1.97	< 10	< 1	0.16	12	0.72	0.173	0.033	0.80	< 2	< 1	94	< 0.01	< 1	< 2	< 10	10	< 10	1	10	0.28	0.75
1226019109	113	2.10	< 10	< 1	0.23	13	0.90	0.099	0.036	1.48	< 2	< 1	89	< 0.01	< 1	< 2	< 10	10	< 10	2	17	0.30	1.47
1226019210	114	2.75	< 10	< 1	0.40	14	1.19	0.064	0.039	2.74	< 2	< 1	37	0.01	1	< 2	< 10	10	< 10	2	17	0.36	2.65
V860687	13	3.33	< 10	< 1	0.23	11	0.56	0.243	0.061	0.06	< 2	4	39	0.46	5	2	< 10	99	< 10	15	10		

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
NBM-1 (slight fzz) Meas		43.8				8.45																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.8				8.45																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.8				8.45																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.8				8.45																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.8				8.45																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.8				8.45																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2230	770	< 1	35	56	261	2.67	6		83	0.8	8	0.43	18
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2250	777	< 1	35	58	266	2.66	7		82	0.8	8	0.43	18
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2290	780	< 1	35	58	265	2.69	6		80	0.8	9	0.43	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								1.8	< 0.5	4540	887	< 1	34	81	351	2.73	9		67	0.7	26	0.44	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.5	< 0.5	4580	888	< 1	33	80	344	2.74	7		69	0.7	22	0.44	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 96 (Aqua Regia) Meas								11.1		> 10000				86	426						49		45
Oreas 96 (Aqua								11.50		39100.				100	448						27.9		49.2

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Regia) Cert										00													
Oreas 96 (Aqua Regia) Meas								11.1		> 10000				84	424						38		46
Oreas 96 (Aqua Regia) Cert								11.50		39100. 00				100	448						27.9		49.2
Oreas 96 (Aqua Regia) Meas								11.4		> 10000				87	432						46		47
Oreas 96 (Aqua Regia) Cert								11.50		39100. 00				100	448						27.9		49.2
Oreas 621 (Aqua Regia) Meas								69.0	294	3650	543	13	25	> 5000	> 10000	1.63	78			0.6	4	1.70	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								69.7	297	3690	542	14	25	> 5000	> 10000	1.65	77			0.6	2	1.71	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								67.5	292	3600	534	12	25	> 5000	> 10000	1.57	80			0.6	4	1.67	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 238 (Fire Assay) Meas								2980															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								2980															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3030															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3100															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3140															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3140															
OREAS 238 (Fire Assay) Cert								3030															
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
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GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
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GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
Oreas E1336 (Fire Assay) Meas							500																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							494																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							496																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							516																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							507																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							518																
Oreas E1336 (Fire Assay) Cert							510																
1226017417 Orig							56																
1226017417 Dup							55																
1226020021 Orig								0.8	0.6	135	719	< 1	51	32	197	4.51	< 2	< 10	29	< 0.5	3	3.36	22
1226020021 Dup								0.8	0.5	131	710	< 1	52	34	190	4.38	3	< 10	28	< 0.5	2	3.34	22
1226004238 Orig							235																
1226004238 Dup							230																
1226004176 Orig																							
1226004176 Dup																							
1226025001 Orig								1.4	1.0	53	636	2	26	4	260	1.94	23	< 10	45	< 0.5	3	1.06	12

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1226025001 Dup								1.4	1.0	56	661	2	28	5	277	2.03	26	< 10	47	< 0.5	4	1.10	14
1226015095 Orig																							
1226015095 Dup																							
1226004130 Orig								1.0	2.8	46	792	1	19	50	696	1.63	111	< 10	35	< 0.5	< 2	0.79	10
1226004130 Dup								0.9	3.2	44	778	1	19	53	704	1.60	105	< 10	37	< 0.5	< 2	0.77	11
1226004021 Orig																							
1226004021 Dup																							
1226025016 Orig							78																
1226025016 Dup							72																
1226015248 Orig	24.7	13.7	-11.0	29.7	0.461																		
1226015248 Dup	24.7	13.7	-10.9	29.7	0.463																		
1227030098 Orig								0.6	3.0	56	659	2	70	< 2	675	2.47	10	< 10	66	< 0.5	< 2	2.36	13
1227030098 Dup								0.6	2.7	54	648	2	68	< 2	660	2.41	12	< 10	65	< 0.5	< 2	2.30	13
1226015033 Orig							49																
1226015033 Dup							52																
1234099032 Orig							30																
1234099032 Dup							30																
1226021013 Orig						8.82																	
1226021013 Dup						8.84																	
1226029122 Orig																							
1226029122 Dup																							
1226021441 Orig								0.4	0.6	68	481	1	11	4	151	1.25	4	< 10	89	< 0.5	< 2	1.53	9
1226021441 Dup								0.5	< 0.5	63	468	1	11	4	146	1.20	5	< 10	80	< 0.5	< 2	1.48	7
1226008053 Orig																							
1226008053 Dup																							
1226008004 Orig							229																
1226008004 Dup							329																
1226008069 Orig								0.9	< 0.5	81	674	2	16	6	71	1.89	36	< 10	37	< 0.5	7	2.03	8
1226008069 Dup								1.0	< 0.5	77	665	2	15	8	71	1.88	42	< 10	37	< 0.5	6	2.01	8
1226008097 Orig	16.9	47.3	30.4	25.4	1.86																		
1226008097 Dup	16.9	47.3	30.4	25.4	1.86																		
1226019265 Orig																							
1226019265 Dup																							
1226021407 Orig							47																
1226021407 Dup							49																
1226021143 Orig								0.4	< 0.5	119	261	3	16	< 2	36	2.46	6	< 10	28	< 0.5	4	1.33	6
1226021143 Dup								0.4	< 0.5	113	259	3	15	< 2	35	2.44	10	< 10	27	< 0.5	4	1.33	5
1226021401 Orig																							
1226021401 Dup																							
1226029149 Orig							80																
1226029149 Dup							87																
1226021100 Orig								0.6	0.5	105	435	3	19	< 2	196	2.51	10	< 10	35	< 0.5	4	1.35	8
1226021100 Dup								0.7	0.6	97	428	3	18	< 2	192	2.47	10	< 10	36	< 0.5	5	1.34	10
1226019168 Orig																							
1226019168 Dup																							
1226008390 Orig							2190																
1226008390 Dup							2420																
1226019042 Orig																							
1226019042 Dup																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1226019150 Orig								0.7	1.0	25	816	< 1	12	15	276	1.40	40	< 10	33	< 0.5	2	1.82	6
1226019150 Dup								0.7	1.0	25	806	1	12	16	264	1.35	45	< 10	33	< 0.5	< 2	1.78	6
1225001194 Orig							38																
1225001194 Dup							40																
1226018023 Orig																							
1226018023 Dup																							
1225001052 Orig	50.5	16.2	-34.3	59.1	0.275																		
1225001052 Dup	50.5	16.2	-34.3	59.1	0.274																		
1225003245 Orig						8.85																	
1225003245 Dup						8.84																	
1225001020 Orig								1.1	3.5	63	945	1	32	28	780	1.98	79	< 10	40	< 0.5	< 2	2.19	15
1225001020 Dup								1.3	3.6	63	951	< 1	32	29	784	2.00	84	< 10	41	< 0.5	< 2	2.20	13
1226008309 Orig							273																
1226008309 Dup							205																
1226018222 Orig																							
1226018222 Dup																							
1226019027 Orig							29																
1226019027 Dup							29																
1225001169 Orig								1.2	0.7	207	496	3	16	16	199	1.47	41	< 10	31	< 0.5	< 2	1.34	8
1225001169 Dup								1.3	0.6	199	486	3	14	18	188	1.42	40	< 10	31	< 0.5	< 2	1.31	7
1226019190 Orig																							
1226019190 Dup																							
1226019290 Orig							24																
1226019290 Dup							25																
1226008378 Orig								0.5	< 0.5	254	204	1	10	< 2	23	1.81	6	< 10	30	< 0.5	4	0.96	7
1226008378 Dup								0.6	< 0.5	255	204	1	10	< 2	23	1.82	5	< 10	33	< 0.5	8	0.97	6
1262019012 Orig							14																
1262019012 Dup							38																
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
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Method Blank							< 5																
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Method Blank							< 5																
Method Blank							< 5																

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
GXR-6 Meas	80	5.53	20	2	1.14	< 10	0.39	0.140	0.033	0.02	4	19	33		< 1	< 2	< 10	169	< 10	4	8			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
GXR-6 Meas	79	5.67	20	2	1.14	< 10	0.39	0.132	0.034	0.01	4	19	32		< 1	< 2	< 10	168	< 10	4	10			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
GXR-6 Meas	79	5.56	20	< 1	1.11	< 10	0.39	0.136	0.033	0.01	4	19	33		< 1	< 2	< 10	166	< 10	4	6			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
BaSO4 Meas																							14.1	
BaSO4 Cert																								14.0
BaSO4 Meas																								14.1
BaSO4 Cert																								14.0
BaSO4 Meas																								13.9
BaSO4 Cert																								14.0
BaSO4 Meas																								13.9
BaSO4 Cert																								14.0
BaSO4 Meas																								13.7
BaSO4 Cert																								14.0
BaSO4 Meas																								14.0
BaSO4 Cert																								14.0
BaSO4 Meas																								13.6
BaSO4 Cert																								14.0
BaSO4 Meas																								14.2
BaSO4 Cert																								14.0
BaSO4 Meas																								14.0
BaSO4 Cert																								14.0
BaSO4 Meas																								14.0
BaSO4 Cert																								14.0
BaSO4 Meas																								14.0
BaSO4 Cert																								14.0
BaSO4 Meas																								14.1
BaSO4 Cert																								14.0
BaSO4 Meas																								14.1
BaSO4 Cert																								14.0
BaSO4 Meas																								13.9
BaSO4 Cert																								14.0
BaSO4 Meas																								14.0
BaSO4 Cert																								14.0
BaSO4 Meas																								13.7
BaSO4 Cert																								14.0
SGR-1b Meas																							27.7	1.54
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.8	1.54
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.9	1.53
SGR-1b Cert																							28	1.53
SGR-1b Meas																							28.0	1.55
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.8	1.58
SGR-1b Cert																							28	1.53
SGR-1b Meas																							28.0	1.56
SGR-1b Cert																							28	1.53
SGR-1b Meas																							28.0	1.56

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
SGR-1b Cert																						28	1.53	
SGR-1b Meas																							27.9	1.56
SGR-1b Cert																							28	1.53
SGR-1b Meas																							28.0	1.58
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.3	1.52
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.8	1.56
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.9	1.58
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.7	1.57
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.8	1.55
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.5	1.51
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.8	1.52
SGR-1b Cert																							28	1.53
GS311-4 Meas																							1.10	0.56
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.11	0.56
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.10	0.54
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.11	0.55
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.11	0.54
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.10	0.54
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.10	0.52
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.10	0.51
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.10	0.53
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.10	0.53
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.09	0.53
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.10	0.55
GS311-4 Cert																							1.11	0.54

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
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NBM-1 (slight fzz) Meas																							
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NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	48	5.21	< 10		0.53	39	1.34	0.032	0.062	0.36	3	4	16		< 2	< 10	37	< 10	20	18			
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0		0.14	1.98	29.4	1.12	16.0	22.3			
OREAS 922 (AQUA REGIA) Meas	47	5.23	< 10		0.51	39	1.34	0.032	0.063	0.37	2	4	16		< 2	< 10	36	< 10	20	24			
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0		0.14	1.98	29.4	1.12	16.0	22.3			
OREAS 922 (AQUA REGIA) Meas	47	5.40	< 10		0.50	40	1.37	0.033	0.063	0.37	2	4	17		< 2	< 10	37	< 10	20	17			
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0		0.14	1.98	29.4	1.12	16.0	22.3			
OREAS 923 (AQUA REGIA) Meas	44	6.08	< 10		0.45	37	1.43		0.060	0.68	< 2	4	15		< 2	< 10	36	< 10	19	27			
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6		0.12	1.80	30.6	1.96	14.3	22.5			
OREAS 923 (AQUA REGIA) Meas	44	6.27	< 10		0.45	37	1.43		0.062	0.69	2	4	15		< 2	< 10	37	< 10	19	30			
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6		0.12	1.80	30.6	1.96	14.3	22.5			
Oreas 96 (Aqua Regia) Meas										3.83	8												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										3.82	6												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										4.15	6												

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 621 (Aqua Regia) Meas	32	3.36	10	4	0.40	21	0.43	0.153	0.034	4.56	119	2	19			< 2	< 10	13	< 10	7	68		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	32	3.44	10	4	0.40	21	0.43	0.157	0.034	4.70	123	2	19			< 2	< 10	13	< 10	7	69		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	31	3.34	10	4	0.38	20	0.43	0.150	0.033	4.38	106	2	18			< 2	< 10	13	< 10	7	64		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
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OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.06	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.36
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.36
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.36
GS316-3 Cert																						0.0600	0.340

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
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Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
1226017417 Orig																						0.21	2.25
1226017417 Dup																						0.21	2.24
1226020021 Orig	181	4.85	< 10	2	0.11	< 10	2.14	0.382	0.025	0.20	< 2	8	70	0.20	2	< 2	< 10	126	< 10	4	4		
1226020021 Dup	178	4.64	< 10	2	0.11	< 10	2.06	0.370	0.025	0.21	< 2	8	68	0.20	< 1	< 2	< 10	124	< 10	4	4		
1226004238 Orig																							
1226004238 Dup																							
1226004176 Orig																						0.18	1.91
1226004176 Dup																						0.18	1.95
1226025001 Orig	397	3.16	< 10	< 1	0.23	30	1.32	0.090	0.066	1.76	3	2	46	< 0.01	2	< 2	< 10	22	< 10	3	15		
1226025001 Dup	409	3.28	< 10	< 1	0.24	32	1.37	0.096	0.069	1.85	2	2	48	< 0.01	1	< 2	< 10	22	< 10	3	17		
1226015095 Orig																						0.99	2.16
1226015095 Dup																						0.99	2.12
1226004130 Orig	231	2.73	< 10	< 1	0.29	14	1.06	0.032	0.040	1.71	3	< 1	25	0.01	2	< 2	< 10	8	< 10	2	9		
1226004130 Dup	230	2.77	< 10	< 1	0.29	14	1.06	0.031	0.040	1.70	4	< 1	25	0.01	< 1	< 2	< 10	8	< 10	1	9		
1226004021 Orig																						0.56	1.42
1226004021 Dup																						0.56	1.34
1226025016 Orig																							
1226025016 Dup																							
1226015248 Orig																							
1226015248 Dup																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1227030098 Orig	301	2.52	< 10	1	0.39	19	1.64	0.216	0.055	0.69	< 2	3	174	0.06	2	< 2	< 10	27	< 10	3	14	0.67	0.67
1227030098 Dup	297	2.44	< 10	< 1	0.38	19	1.59	0.213	0.054	0.69	< 2	3	172	0.06	3	< 2	< 10	27	< 10	3	12	0.66	0.70
1226015033 Orig																							
1226015033 Dup																							
1234099032 Orig																						0.26	0.44
1234099032 Dup																						0.26	0.48
1226021013 Orig																							
1226021013 Dup																							
1226029122 Orig																						0.32	1.17
1226029122 Dup																						0.31	1.18
1226021441 Orig	158	1.93	< 10	< 1	0.29	34	0.84	0.059	0.055	0.97	< 2	< 1	71	< 0.01	< 1	< 2	< 10	8	< 10	3	10		
1226021441 Dup	154	1.86	< 10	< 1	0.28	35	0.81	0.057	0.053	0.93	< 2	< 1	68	< 0.01	2	< 2	< 10	8	< 10	3	9		
1226008053 Orig																						0.50	1.64
1226008053 Dup																						0.49	1.68
1226008004 Orig																							
1226008004 Dup																							
1226008069 Orig	196	2.66	< 10	< 1	0.29	15	1.05	0.121	0.041	1.26	< 2	1	63	0.03	2	< 2	< 10	14	< 10	2	11		
1226008069 Dup	192	2.67	< 10	< 1	0.29	15	1.04	0.119	0.041	1.29	< 2	1	62	0.03	< 1	< 2	< 10	13	< 10	2	11		
1226008097 Orig																							
1226008097 Dup																							
1226019265 Orig																						0.79	2.05
1226019265 Dup																						0.79	2.07
1226021407 Orig																							
1226021407 Dup																							
1226021143 Orig	170	2.85	< 10	< 1	0.16	11	0.92	0.214	0.035	2.05	< 2	1	112	< 0.01	2	< 2	< 10	12	< 10	2	20		
1226021143 Dup	167	2.86	< 10	< 1	0.15	11	0.92	0.212	0.037	2.06	< 2	1	111	< 0.01	1	< 2	< 10	12	< 10	2	20		
1226021401 Orig																						0.19	2.35
1226021401 Dup																						0.19	2.23
1226029149 Orig																							
1226029149 Dup																							
1226021100 Orig	188	3.14	< 10	< 1	0.22	14	1.18	0.139	0.042	1.55	< 2	1	84	0.04	< 1	< 2	< 10	13	< 10	2	19		
1226021100 Dup	181	3.04	< 10	< 1	0.22	14	1.14	0.137	0.042	1.53	< 2	1	84	0.04	< 1	< 2	< 10	13	< 10	2	19		
1226019168 Orig																						0.25	0.77
1226019168 Dup																						0.27	0.88
1226008390 Orig																							
1226008390 Dup																							
1226019042 Orig																						0.72	0.67
1226019042 Dup																						0.70	0.67
1226019150 Orig	177	1.82	< 10	< 1	0.25	18	0.57	0.102	0.042	0.79	< 2	< 1	59	< 0.01	2	< 2	< 10	7	< 10	2	9		
1226019150 Dup	174	1.76	< 10	< 1	0.25	17	0.56	0.099	0.041	0.76	< 2	< 1	59	< 0.01	2	< 2	< 10	7	< 10	2	9		
1225001194 Orig																							
1225001194 Dup																							
1226018023 Orig																						0.36	1.47
1226018023 Dup																						0.36	1.41
1225001052 Orig																							
1225001052 Dup																							
1225003245 Orig																							
1225003245 Dup																							
1225001020 Orig	139	3.34	< 10	< 1	0.43	17	1.57	0.053	0.077	1.66	2	3	104	0.06	2	< 2	< 10	34	< 10	3	13		
1225001020 Dup	140	3.37	< 10	< 1	0.44	19	1.59	0.054	0.077	1.65	2	3	107	0.06	1	< 2	< 10	34	< 10	3	14		
1226008309 Orig																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1226008309 Dup																							
1226018222 Orig																						0.14	2.82
1226018222 Dup																						0.14	2.96
1226019027 Orig																							
1226019027 Dup																							
1225001169 Orig	289	1.93	< 10	< 1	0.15	13	0.48	0.084	0.037	0.90	< 2	< 1	78	< 0.01	< 1	< 2	< 10	8	< 10	2	11		
1225001169 Dup	287	1.89	< 10	< 1	0.15	12	0.47	0.079	0.037	0.87	< 2	< 1	75	< 0.01	< 1	< 2	< 10	8	< 10	2	11		
1226019190 Orig																						0.38	1.12
1226019190 Dup																						0.39	1.11
1226019290 Orig																							
1226019290 Dup																							
1226008378 Orig	215	3.67	< 10	< 1	0.19	11	0.66	0.107	0.033	2.45	< 2	< 1	66	0.02	2	< 2	< 10	7	< 10	2	20	0.22	2.40
1226008378 Dup	216	3.66	< 10	< 1	0.19	12	0.66	0.108	0.033	2.50	< 2	< 1	67	0.02	1	< 2	< 10	7	< 10	2	20	0.22	2.47
1262019012 Orig																							
1262019012 Dup																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank																							
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Report No.: A20-05527
Report Date: 29-Jun-20
Date Submitted: 28-May-20
Your Reference: April 2020 Check Assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

140 Pulp samples were submitted for analysis.

Table with 3 columns: Analytical package(s) requested, Test Name, Testing Date. Includes rows for ABA Modified Sobek Package and 4F-C, S.

REPORT A20-05527

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

<original signed by>

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Report No.: A20-05527
Report Date: 29-Jun-20
Date Submitted: 28-May-20
Your Reference: April 2020 Check Assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

140 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2020-06-17 07:54:25
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2020-06-10 14:27:25

REPORT A20-05527

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

<original signed by>

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

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E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A20-05527

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1226016330	55.6	19.1	-36.5	64.3	0.297	8.92	81	0.3	< 0.5	30	479	1	13	3	117	2.76	14	< 10	37	< 0.5	5	1.96	11
1227042026	64.2	15.4	-48.8	73.5	0.209	8.78	84	0.6	< 0.5	33	232	1	12	3	50	1.51	16	< 10	36	< 0.5	2	0.99	9
1227042206	48.0	13.4	-34.7	53.9	0.248	8.66	25	0.2	< 0.5	50	221	2	13	< 2	39	2.15	5	< 10	37	< 0.5	4	1.32	8
1227042118	36.3	9.59	-26.7	45.9	0.209	8.85	44	0.4	< 0.5	54	297	2	12	< 2	75	1.62	9	< 10	41	< 0.5	3	0.62	7
1227042053	47.3	31.9	-15.3	57.3	0.558	8.98	143	1.7	2.6	154	574	2	10	6	412	1.85	9	< 10	32	< 0.5	7	2.13	8
1227042070	40.5	11.7	-28.8	48.1	0.244	8.94	46	0.4	< 0.5	65	268	2	16	< 2	64	1.61	9	< 10	39	< 0.5	3	0.76	9
1227042172	49.2	7.62	-41.5	55.7	0.137	8.76	76	0.7	< 0.5	136	321	1	11	< 2	58	1.61	12	< 10	33	< 0.5	3	0.72	8
1226016288	2.81	5.12	2.30	2.76	1.86	9.20	6	< 0.2	< 0.5	117	462	< 1	47	< 2	50	4.85	2	< 10	14	< 0.5	3	3.60	24
1227042083	36.5	13.6	-22.9	40.7	0.333	8.83	44	0.4	< 0.5	71	261	2	17	< 2	58	1.55	10	< 10	32	< 0.5	5	0.84	9
1226016169	58.2	10.8	-47.5	65.5	0.164	8.60	380	1.2	2.6	190	451	1	11	< 2	631	2.33	14	< 10	34	< 0.5	5	0.99	9
1226016250	78.7	4.24	-74.5	87.3	0.0486	8.34	469	3.0	< 0.5	883	315	2	12	8	67	1.69	23	< 10	26	< 0.5	13	0.27	10
1226016205	72.7	5.36	-67.3	86.7	0.0618	8.56	235	0.5	< 0.5	128	331	< 1	11	< 2	68	1.98	18	< 10	27	< 0.5	5	0.73	10
1227042203	41.5	7.97	-33.6	50.5	0.158	8.41	206	0.4	0.6	80	189	1	14	< 2	148	1.92	8	< 10	32	< 0.5	3	0.80	10
1227042249	28.8	7.97	-20.9	35.5	0.224	8.72	69	< 0.2	< 0.5	27	219	2	11	< 2	66	2.32	5	< 10	33	< 0.5	4	1.22	10
1226016234	2.19	6.86	4.68	2.14	3.20	9.21	5	< 0.2	< 0.5	116	453	< 1	43	< 2	49	4.66	< 2	< 10	15	< 0.5	< 2	3.58	22
V860677							120	1.7	< 0.5	59	364	4	13	9	67	1.55	< 2	< 10	76	< 0.5	< 2	1.28	14
1226016115	100	4.87	-95.2	107	0.0454	8.16	204	1.6	0.9	116	422	1	13	3	277	1.52	22	< 10	13	< 0.5	10	0.31	9
1226016137	70.2	14.4	-55.8	75.0	0.192	8.62	117	0.5	< 0.5	76	235	1	9	3	80	1.05	7	< 10	19	< 0.5	4	0.90	5
1226016224	55.4	11.2	-44.2	61.9	0.181	8.77	271	0.7	5.1	97	481	1	12	< 2	1230	3.36	14	< 10	37	< 0.5	6	2.22	9
1226016068	66.0	9.09	-56.9	72.9	0.125	8.60	92	0.8	< 0.5	115	320	1	16	< 2	132	1.81	8	< 10	29	< 0.5	6	1.02	11
1226016110	25.7	9.72	-16.0	32.8	0.297	9.02	110	0.5	< 0.5	23	528	2	10	< 2	154	2.58	10	< 10	49	< 0.5	3	1.52	9
1232012289	12.9	37.8	24.9	17.8	2.13	8.07	21	0.8	0.7	15	841	1	15	7	208	1.76	8	< 10	58	< 0.5	< 2	1.98	11
1232012322	13.4	44.1	30.7	19.0	2.32	8.26	14	0.4	< 0.5	14	752	1	17	< 2	115	1.38	6	< 10	95	< 0.5	< 2	1.97	12
1226016104	30.4	6.22	-24.2	35.2	0.177	8.98	102	0.3	0.8	34	381	< 1	9	< 2	216	1.73	10	< 10	43	< 0.5	2	0.50	10
1232012276	16.3	38.2	21.9	20.5	1.86	8.74	43	1.0	1.1	15	754	< 1	17	22	305	2.16	11	< 10	51	< 0.5	< 2	2.64	9
1232012313	13.6	34.5	20.8	18.1	1.91	9.07	29	0.5	< 0.5	20	826	1	23	2	194	1.56	10	< 10	67	< 0.5	< 2	1.82	11
1226017443	54.7	4.62	-50.0	63.7	0.0726	8.27	68	0.3	< 0.5	11	335	2	15	4	57	1.56	8	< 10	25	< 0.5	2	0.60	9
1226017222	45.2	11.1	-34.1	50.8	0.218	8.73	141	0.4	0.7	53	492	1	13	2	147	2.23	9	< 10	31	< 0.5	5	1.13	8
1226016031	71.1	8.84	-62.3	77.5	0.114	8.45	234	1.1	< 0.5	179	221	1	10	< 2	174	1.25	6	< 10	26	< 0.5	8	0.51	6
1226016048	30.7	20.9	-9.85	35.2	0.593	8.71	124	0.2	< 0.5	39	390	2	13	< 2	140	1.94	6	< 10	45	< 0.5	4	1.37	10
1226016050	27.9	16.8	-11.1	32.5	0.518	9.13	79	0.3	0.8	36	511	1	16	< 2	208	1.89	9	< 10	55	< 0.5	3	1.04	9
1226017398	73.5	6.87	-66.7	80.5	0.0853	8.44	48	0.2	< 0.5	16	419	1	13	3	67	2.30	10	< 10	33	< 0.5	3	1.30	8
1232012199	12.4	23.0	10.6	17.5	1.31	8.47	27	0.6	1.1	22	686	2	23	3	321	2.18	10	< 10	62	< 0.5	< 2	1.71	9
1226016027	3.75	4.86	1.11	3.67	1.32	9.56	11	< 0.2	< 0.5	129	437	< 1	44	< 2	45	4.90	< 2	< 10	16	< 0.5	3	3.60	21
1226017085	127	20.5	-107	148	0.138	8.38	319	1.3	5.9	105	1620	1	49	11	1510	3.24	37	< 10	19	< 0.5	6	1.22	33
1226017429	80.5	9.24	-71.3	86.1	0.107	8.51	44	0.4	< 0.5	29	322	2	12	6	55	1.67	22	< 10	24	< 0.5	2	1.10	10
1226017032	35.1	8.59	-26.5	40.1	0.214	8.91	134	0.5	3.3	42	847	1	10	15	898	2.66	22	< 10	39	< 0.5	4	1.40	9
1226017322	80.0	6.98	-73.0	87.0	0.0803	8.29	78	0.6	2.9	176	466	2	14	4	657	2.28	9	< 10	27	< 0.5	3	1.23	8
V860678							756	3.0	< 0.5	33	271	15	12	18	45	1.18	< 2	< 10	59	< 0.5	2	2.05	11
1232012336	11.6	24.4	12.8	11.3	2.15	9.15	25	0.4	0.7	25	676	2	17	3	291	1.54	6	< 10	57	< 0.5	< 2	1.48	8
1232012008	11.6	17.0	5.49	11.3	1.50	8.99	40	0.4	0.5	21	535	4	30	7	125	2.05	8	< 10	42	< 0.5	< 2	1.48	9
1226017215	107	3.37	-104	112	0.0301	8.01	148	0.6	0.5	7	332	1	12	6	112	1.34	28	< 10	20	< 0.5	4	0.20	10

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1227042053	121	2.31	< 10	< 1	0.19	16	0.62	0.217	0.048	1.89	< 2	< 1	154	< 0.01	2	< 2	< 10	11	< 10	2	19	0.47	1.87
1227042070	152	2.35	< 10	< 1	0.17	15	1.18	0.106	0.039	1.55	< 2	1	59	< 0.01	1	< 2	< 10	12	< 10	2	20	0.20	1.57
1227042172	136	2.42	< 10	< 1	0.17	14	0.90	0.117	0.038	1.84	< 2	1	59	< 0.01	3	< 2	< 10	11	< 10	2	21	0.15	1.82
1226016288	113	4.50	< 10	3	0.03	< 10	1.76	0.465	0.019	0.08	< 2	5	68	0.24	< 1	< 2	< 10	134	< 10	4	3	0.07	0.09
1227042083	227	2.24	< 10	< 1	0.13	12	1.15	0.117	0.036	1.38	< 2	< 1	55	< 0.01	1	< 2	< 10	11	< 10	2	19	0.25	1.33
1226016169	89	2.90	< 10	< 1	0.18	17	1.42	0.127	0.046	2.16	< 2	< 1	69	< 0.01	2	< 2	< 10	12	< 10	2	22	0.10	2.14
1226016250	150	3.71	< 10	< 1	0.23	18	1.31	0.041	0.051	2.84	< 2	< 1	27	< 0.01	2	< 2	< 10	9	< 10	2	22	0.14	2.85
1226016205	62	3.04	< 10	< 1	0.17	14	1.16	0.129	0.041	2.72	< 2	< 1	54	< 0.01	2	2	< 10	10	< 10	3	19	0.09	2.83
1227042203	156	2.52	< 10	< 1	0.16	12	1.17	0.143	0.035	1.94	< 2	1	71	< 0.01	2	< 2	< 10	11	< 10	2	24	0.15	1.65
1227042249	113	2.21	< 10	< 1	0.18	15	1.10	0.194	0.040	1.83	< 2	< 1	102	< 0.01	1	< 2	< 10	10	< 10	2	16	0.11	1.16
1226016234	105	4.26	< 10	< 1	0.04	< 10	1.66	0.464	0.019	0.07	< 2	5	69	0.22	< 1	< 2	< 10	132	< 10	4	3	0.06	0.07
V860677	13	3.29	< 10	< 1	0.23	11	0.56	0.254	0.060	0.06	< 2	4	41	0.47	4	< 2	< 10	100	< 10	15	14		
1226016115	96	4.14	< 10	< 1	0.24	13	1.09	0.048	0.043	3.56	< 2	< 1	21	< 0.01	5	< 2	< 10	10	< 10	2	23	0.05	3.50
1226016137	138	3.01	< 10	< 1	0.35	33	0.37	0.037	0.056	2.45	< 2	< 1	97	0.02	2	< 2	< 10	9	< 10	3	16	0.28	2.45
1226016224	132	2.63	< 10	< 1	0.17	18	1.15	0.250	0.052	2.00	< 2	< 1	119	0.02	< 1	< 2	< 10	13	< 10	2	20	0.13	2.02
1226016068	156	3.31	< 10	< 1	0.19	18	1.01	0.126	0.039	2.34	< 2	1	46	0.04	2	< 2	< 10	24	< 10	2	19	0.21	2.38
1226016110	106	1.99	< 10	< 1	0.20	17	1.14	0.214	0.049	0.99	2	1	104	0.02	< 1	< 2	< 10	14	< 10	2	13	0.12	1.07
1232012289	95	2.66	< 10	< 1	0.34	27	1.06	0.087	0.060	0.59	< 2	2	55	0.10	2	< 2	< 10	31	< 10	3	11	0.48	0.58
1232012322	158	2.60	< 10	< 1	0.64	27	0.92	0.068	0.059	0.64	2	3	45	0.13	< 1	< 2	< 10	37	< 10	3	14	0.57	0.62
1226016104	75	2.28	< 10	< 1	0.17	17	1.02	0.078	0.052	1.18	< 2	< 1	53	0.02	< 1	< 2	< 10	12	< 10	2	14	0.06	1.15
1232012276	89	2.28	< 10	< 1	0.28	22	0.99	0.110	0.057	0.68	< 2	2	67	0.10	3	< 2	< 10	24	< 10	3	15	0.47	0.67
1232012313	156	2.41	< 10	< 1	0.44	24	1.04	0.065	0.056	0.62	< 2	2	39	0.11	< 1	< 2	< 10	29	< 10	3	17	0.47	0.59
1226017443	156	2.84	< 10	< 1	0.23	20	0.88	0.112	0.049	2.98	< 2	< 1	48	0.01	1	< 2	< 10	8	< 10	3	22	0.13	2.08
1226017222	163	2.42	< 10	< 1	0.16	15	1.26	0.118	0.038	1.62	< 2	< 1	53	0.01	2	< 2	< 10	11	< 10	2	18	0.21	1.66
1226016031	133	3.23	< 10	< 1	0.34	12	0.73	0.038	0.039	2.50	< 2	< 1	18	< 0.01	2	< 2	< 10	7	< 10	2	19	0.18	2.53
1226016048	174	2.18	< 10	< 1	0.16	18	1.23	0.146	0.052	1.20	< 2	1	87	0.01	< 1	< 2	< 10	16	< 10	2	12	0.27	1.15
1226016050	105	2.29	< 10	< 1	0.23	19	1.29	0.076	0.050	1.07	< 2	1	53	0.03	1	< 2	< 10	16	< 10	2	18	0.15	1.06
1226017398	178	2.71	< 10	< 1	0.21	16	1.06	0.164	0.042	2.61	< 2	< 1	92	< 0.01	1	< 2	< 10	9	< 10	2	19	0.34	2.63
1232012199	156	2.21	< 10	< 1	0.45	20	1.03	0.142	0.052	0.56	< 2	2	89	0.08	2	< 2	< 10	25	< 10	2	12	0.32	0.57
1226016027	109	4.29	< 10	< 1	0.05	< 10	1.60	0.508	0.021	0.12	2	5	60	0.20	< 1	< 2	< 10	127	< 10	3	3	0.12	0.12
1226017085	89	7.79	< 10	2	0.31	< 10	2.13	0.062	0.070	4.00	3	6	47	0.30	3	< 2	< 10	138	< 10	9	12	0.24	4.83
1226017429	90	2.83	< 10	< 1	0.18	15	0.85	0.088	0.038	2.84	< 2	< 1	68	0.02	2	< 2	< 10	6	< 10	2	18	0.22	2.81
1226017032	85	2.59	< 10	< 1	0.30	17	1.49	0.114	0.045	1.30	< 2	1	57	0.05	< 1	< 2	< 10	18	< 10	3	18	0.09	1.31
1226017322	211	2.92	< 10	< 1	0.16	16	1.00	0.128	0.042	2.87	< 2	< 1	87	0.01	< 1	< 2	< 10	9	< 10	2	19	0.17	2.84
V860678	12	3.14	< 10	< 1	0.25	17	0.44	0.172	0.045	0.04	< 2	3	50	0.30	3	< 2	< 10	60	< 10	16	9		
1232012336	222	2.04	< 10	< 1	0.36	16	0.93	0.080	0.047	0.36	< 2	2	51	0.10	< 1	< 2	< 10	23	< 10	2	13	0.33	0.37
1232012008	145	2.17	< 10	< 1	0.23	16	0.93	0.163	0.045	0.39	< 2	2	76	0.07	< 1	< 2	< 10	22	< 10	2	13	0.25	0.37
1226017215	125	4.11	< 10	< 1	0.20	13	1.27	0.023	0.040	3.70	< 2	< 1	9	< 0.01	2	< 2	< 10	7	< 10	2	18	0.02	3.66

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS311-4 Meas																							
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GS311-4 Meas																							
GS311-4 Cert																							
NBM-1 (slight fzz) Meas		43.8				8.45																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.8				8.45																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.8				8.45																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
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NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.8				8.45																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.8				8.45																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2230	770	< 1	35	56	261	2.67	6		83	0.8	8	0.43	18
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2250	777	< 1	35	58	266	2.66	7		82	0.8	8	0.43	18
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922								0.9	< 0.5	2290	780	< 1	35	58	265	2.69	6		80	0.8	9	0.43	19

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
(AQUA REGIA) Meas																							
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								1.8	< 0.5	4540	887	< 1	34	81	351	2.73	9		67	0.7	26	0.44	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.5	< 0.5	4580	888	< 1	33	80	344	2.74	7		69	0.7	22	0.44	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 96 (Aqua Regia) Meas								11.1		> 10000				86	426						49		45
Oreas 96 (Aqua Regia) Cert								11.50		39100. 00				100	448						27.9		49.2
Oreas 96 (Aqua Regia) Meas								11.1		> 10000				84	424						38		46
Oreas 96 (Aqua Regia) Cert								11.50		39100. 00				100	448						27.9		49.2
Oreas 96 (Aqua Regia) Meas								11.4		> 10000				87	432						46		47
Oreas 96 (Aqua Regia) Cert								11.50		39100. 00				100	448						27.9		49.2
Oreas 621 (Aqua Regia) Meas								69.0	294	3650	543	13	25	> 5000	> 10000	1.63	78			0.6	4	1.70	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								69.7	297	3690	542	14	25	> 5000	> 10000	1.65	77			0.6	2	1.71	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								67.5	292	3600	534	12	25	> 5000	> 10000	1.57	80			0.6	4	1.67	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 238 (Fire Assay) Meas								3110															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3180															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3120															
OREAS 238 (Fire Assay) Cert								3030															
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Assay) Meas																							
Oreas E1336 (Fire Assay) Cert							510																
1225002422 Orig																							
1225002422 Dup																							
1225002440 Orig	21.5	15.4	-6.10	30.3	0.510		215																
1225002440 Dup	21.5	15.4	-6.10	30.3	0.510		215																
1226021447 Orig																							
1226021447 Dup																							
1225002074 Orig								1.3	4.5	85	631	1	15	5	1060	1.84	17	< 10	41	< 0.5	3	1.76	11
1225002074 Dup								1.2	4.5	82	630	1	15	6	1060	1.81	17	< 10	37	< 0.5	3	1.76	11
1225002086 Orig							283																
1225002086 Dup							272																
1226020250 Orig																							
1226020250 Dup																							
1225002125 Orig								1.2	0.7	69	392	2	15	11	209	1.95	25	< 10	44	< 0.5	4	1.44	11
1225002125 Dup								1.1	0.7	69	384	2	14	12	207	1.94	23	< 10	48	< 0.5	2	1.42	9
1225002029 Orig							114																
1225002029 Dup							111																
1226024159 Orig																							
1226024159 Dup																							
1226020393 Orig						8.60																	
1226020393 Dup						8.59																	
1226024036 Orig								1.2	4.2	138	550	< 1	12	< 2	1140	1.78	12	< 10	61	< 0.5	5	0.98	9
1226024036 Dup								1.1	4.6	133	540	< 1	12	< 2	1140	1.73	10	< 10	58	< 0.5	5	0.96	8
1226020538 Orig							471																
1226020538 Dup							395																
1226017107 Orig																							
1226017107 Dup																							
1226020324 Orig							16																
1226020324 Dup							15																
1232012038 Orig								< 0.2	< 0.5	121	526	< 1	50	< 2	49	4.87	< 2	< 10	21	< 0.5	3	3.85	22
1232012038 Dup								< 0.2	< 0.5	117	515	< 1	49	< 2	47	4.70	< 2	< 10	19	< 0.5	2	3.76	22
1225002244 Orig	57.3	34.9	-22.4	68.6	0.508																		
1225002244 Dup	57.3	35.0	-22.3	68.6	0.510																		
1226020503 Orig							157																
1226020503 Dup							144																
1226020417 Orig																							
1226020417 Dup																							
1226020152 Orig								5.0	14.2	358	146	1	15	17	3610	0.84	222	< 10	26	< 0.5	< 2	0.46	11
1226020152 Dup								5.0	14.2	361	146	1	16	17	3620	0.83	225	< 10	25	< 0.5	< 2	0.46	12
1226020419 Orig							250																
1226020419 Dup							318																
1225002174 Orig								1.1	3.3	48	507	2	16	13	779	1.85	22	< 10	36	< 0.5	3	1.25	11
1225002174 Dup								1.2	3.3	51	520	2	17	14	799	1.92	21	< 10	39	< 0.5	4	1.29	12
1226020284 Orig							1900																
1226020284 Dup							1770																
1226015363 Orig																							
1226015363 Dup																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1226016330 Orig								0.3	< 0.5	31	485	1	13	2	119	2.80	13	< 10	38	< 0.5	6	1.98	12
1226016330 Dup								0.3	0.5	30	473	1	13	3	116	2.71	14	< 10	36	< 0.5	4	1.94	11
1227042026 Orig							85																
1227042026 Dup							82																
1227042118 Orig																							
1227042118 Dup																							
1226016288 Orig	2.81	5.12	2.31	2.76	1.86																		
1226016288 Dup	2.81	5.11	2.30	2.76	1.86																		
1226016205 Orig						8.56																	
1226016205 Dup						8.57																	
1226016234 Orig								< 0.2	< 0.5	118	452	< 1	43	< 2	50	4.72	< 2	< 10	15	< 0.5	3	3.60	22
1226016234 Dup								< 0.2	< 0.5	114	455	< 1	44	< 2	49	4.61	< 2	< 10	15	< 0.5	< 2	3.56	23
1226016115 Orig							206																
1226016115 Dup							202																
1232012313 Orig																							
1232012313 Dup																							
1226017443 Orig							66																
1226017443 Dup							70																
1226017032 Orig							130																
1226017032 Dup							137																
1226017322 Orig								0.6	2.8	177	465	1	14	4	667	2.28	7	< 10	26	< 0.5	3	1.23	8
1226017322 Dup								0.6	2.9	175	467	2	14	4	647	2.27	10	< 10	28	< 0.5	3	1.23	8
1232012008 Orig						8.97																	
1232012008 Dup						9.00																	
1226017215 Orig	107	3.37	-104	112	0.0301																		
1226017215 Dup	107	3.37	-104	112	0.0301																		
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank							< 5																
Method Blank							< 5																
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Method Blank							< 5																
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Method Blank							< 5																
Method Blank							< 5																

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
GXR-6 Meas	80	5.53	20	2	1.14	< 10	0.39	0.140	0.033	0.02	4	19	33		< 1	< 2	< 10	169	< 10	4	8			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
GXR-6 Meas	79	5.67	20	2	1.14	< 10	0.39	0.132	0.034	0.01	4	19	32		< 1	< 2	< 10	168	< 10	4	10			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
GXR-6 Meas	79	5.56	20	< 1	1.11	< 10	0.39	0.136	0.033	0.01	4	19	33		< 1	< 2	< 10	166	< 10	4	6			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
BaSO4 Meas																							14.2	
BaSO4 Cert																								14.0
BaSO4 Meas																								14.1
BaSO4 Cert																								14.0
BaSO4 Meas																								14.1
BaSO4 Cert																								14.0
BaSO4 Meas																								13.9
BaSO4 Cert																								14.0
BaSO4 Meas																								13.9
BaSO4 Cert																								14.0
BaSO4 Meas																								13.7
BaSO4 Cert																								14.0
BaSO4 Meas																								14.0
BaSO4 Cert																								14.0
BaSO4 Meas																								13.6
BaSO4 Cert																								14.0
BaSO4 Meas																								14.2
BaSO4 Cert																								14.0
BaSO4 Meas																								14.0
BaSO4 Cert																								14.0
BaSO4 Meas																								14.0
BaSO4 Cert																								14.1
BaSO4 Meas																								14.0
BaSO4 Cert																								14.1
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BaSO4 Meas																								14.1
BaSO4 Cert																								14.0
BaSO4 Meas																								14.1
BaSO4 Cert																								14.0
BaSO4 Meas																								13.9
BaSO4 Cert																								14.0
BaSO4 Meas																								14.0
BaSO4 Cert																								14.0
BaSO4 Meas																								13.7
BaSO4 Cert																								14.0
SGR-1b Meas																								27.4
SGR-1b Cert																								28
SGR-1b Meas																								27.7
SGR-1b Cert																								28
SGR-1b Meas																								27.8
SGR-1b Cert																								28
SGR-1b Meas																								27.9
SGR-1b Cert																								28
SGR-1b Meas																								28.0
SGR-1b Cert																								28
SGR-1b Meas																								27.8

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
SGR-1b Cert																						28	1.53	
SGR-1b Meas																							28.0	1.56
SGR-1b Cert																							28	1.53
SGR-1b Meas																							28.0	1.56
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.9	1.56
SGR-1b Cert																							28	1.53
SGR-1b Meas																							28.0	1.58
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.3	1.52
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.8	1.56
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.9	1.58
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.7	1.57
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.8	1.55
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.5	1.51
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.8	1.52
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.7	1.57
GS311-4 Meas																							1.11	0.57
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.10	0.56
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.11	0.56
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.10	0.54
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.11	0.54
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.11	0.55
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.11	0.55
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.11	0.54
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.09	0.53
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.11	0.53
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.11	0.55
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.11	0.55
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.10	0.56
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.11	0.54
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.10	0.52
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.10	0.51
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.10	0.53
GS311-4 Cert																							1.11	0.54

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
GS311-4 Meas																						1.10	0.54	
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.09	0.53
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.10	0.55
GS311-4 Cert																							1.11	0.54
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
NBM-1 (slight fzz) Meas																								
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NBM-1 (slight fzz) Cert																								
OREAS 922 (AQUA REGIA) Meas	48	5.21	< 10		0.53	39	1.34	0.032	0.062	0.36	3	4	16			< 2	< 10	37	< 10	20	18			
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3			
OREAS 922 (AQUA REGIA) Meas	47	5.23	< 10		0.51	39	1.34	0.032	0.063	0.37	2	4	16			< 2	< 10	36	< 10	20	24			
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3			
OREAS 922 (AQUA REGIA) Meas	47	5.40	< 10		0.50	40	1.37	0.033	0.063	0.37	2	4	17			< 2	< 10	37	< 10	20	17			
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3			
OREAS 923 (AQUA REGIA) Meas	44	6.08	< 10		0.45	37	1.43		0.060	0.68	< 2	4	15			< 2	< 10	36	< 10	19	27			

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	44	6.27	< 10		0.45	37	1.43		0.062	0.69	2	4	15			< 2	< 10	37	< 10	19	30		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 96 (Aqua Regia) Meas										3.83	8												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										3.82	6												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										4.15	6												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 621 (Aqua Regia) Meas	32	3.36	10	4	0.40	21	0.43	0.153	0.034	4.56	119	2	19			< 2	< 10	13	< 10	7	68		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	32	3.44	10	4	0.40	21	0.43	0.157	0.034	4.70	123	2	19			< 2	< 10	13	< 10	7	69		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	31	3.34	10	4	0.38	20	0.43	0.150	0.033	4.38	106	2	18			< 2	< 10	13	< 10	7	64		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.05	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.36
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.35
GS316-3 Cert																						0.0600	0.340

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
GS316-3 Meas																						0.05	0.36	
GS316-3 Cert																						0.0600	0.340	
GS316-3 Meas																						0.06	0.34	
GS316-3 Cert																						0.0600	0.340	
GS316-3 Meas																						0.06	0.33	
GS316-3 Cert																						0.0600	0.340	
GS316-3 Meas																						0.06	0.36	
GS316-3 Cert																						0.0600	0.340	
GS316-3 Meas																						0.06	0.33	
GS316-3 Cert																						0.0600	0.340	
GS316-3 Meas																						0.06	0.34	
GS316-3 Cert																						0.0600	0.340	
GS316-3 Meas																						0.06	0.33	
GS316-3 Cert																						0.0600	0.340	
GS316-3 Meas																						0.06	0.34	
GS316-3 Cert																						0.0600	0.340	
GS316-3 Meas																						0.06	0.34	
GS316-3 Cert																						0.0600	0.340	
OREAS 228b (Fire Assay) Meas																								
OREAS 228b (Fire Assay) Cert																								
Oreas E1336 (Fire Assay) Meas																								
Oreas E1336 (Fire Assay) Cert																								
Oreas E1336 (Fire Assay) Meas																								
Oreas E1336 (Fire Assay) Cert																								
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Oreas E1336 (Fire Assay) Cert																								
Oreas E1336 (Fire Assay) Meas																								
Oreas E1336 (Fire Assay) Cert																								
1225002422 Orig																							0.17	0.86
1225002422 Dup																							0.16	0.90
1225002440 Orig																								
1225002440 Dup																								
1226021447 Orig																							0.53	0.93
1226021447 Dup																							0.53	0.98
1225002074 Orig	131	3.02	< 10	1	0.19	23	1.00	0.111	0.049	3.26	3	< 1	67	< 0.01	2	< 2	< 10	9	< 10	2	21			
1225002074 Dup	130	2.96	< 10	< 1	0.19	22	0.98	0.108	0.049	3.23	2	< 1	66	< 0.01	2	< 2	< 10	9	< 10	2	20			
1225002086 Orig																								

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1225002086 Dup																							
1226020250 Orig																						4.15	0.40
1226020250 Dup																						4.15	0.40
1225002125 Orig	147	2.05	< 10	< 1	0.23	16	0.52	0.188	0.045	1.69	< 2	< 1	131	< 0.01	< 1	< 2	< 10	7	< 10	3	17		
1225002125 Dup	146	1.99	< 10	< 1	0.23	15	0.50	0.189	0.043	1.66	< 2	< 1	130	< 0.01	< 1	< 2	< 10	7	< 10	3	17		
1225002029 Orig																							
1225002029 Dup																							
1226024159 Orig																						0.27	0.72
1226024159 Dup																						0.29	0.69
1226020393 Orig																							
1226020393 Dup																							
1226024036 Orig	153	2.22	< 10	< 1	0.28	18	0.85	0.134	0.047	1.19	< 2	1	54	0.04	2	< 2	< 10	12	< 10	3	16		
1226024036 Dup	151	2.15	< 10	< 1	0.26	17	0.83	0.130	0.047	1.15	< 2	1	52	0.04	3	< 2	< 10	12	< 10	3	16		
1226020538 Orig																							
1226020538 Dup																							
1226017107 Orig																						0.27	0.50
1226017107 Dup																						0.27	0.51
1226020324 Orig																							
1226020324 Dup																							
1232012038 Orig	172	4.65	< 10	2	0.07	< 10	1.83	0.494	0.020	0.10	< 2	7	71	0.22	3	< 2	< 10	131	< 10	4	4		
1232012038 Dup	169	4.46	< 10	1	0.07	< 10	1.77	0.472	0.019	0.09	< 2	6	71	0.22	< 1	< 2	< 10	128	< 10	4	4		
1225002244 Orig																						0.66	2.26
1225002244 Dup																						0.65	2.22
1226020503 Orig																							
1226020503 Dup																							
1226020417 Orig																						0.29	3.09
1226020417 Dup																						0.29	3.10
1226020152 Orig	174	3.31	< 10	< 1	0.37	13	0.15	0.033	0.044	3.85	21	< 1	21	< 0.01	< 1	< 2	< 10	6	< 10	2	17		
1226020152 Dup	177	3.26	< 10	< 1	0.37	12	0.15	0.032	0.044	3.84	20	< 1	21	< 0.01	< 1	< 2	< 10	6	< 10	2	17		
1226020419 Orig																						0.69	3.06
1226020419 Dup																						0.70	3.02
1225002174 Orig	152	2.51	< 10	< 1	0.21	16	0.93	0.151	0.051	2.14	3	1	72	< 0.01	1	< 2	< 10	13	< 10	3	18		
1225002174 Dup	158	2.57	< 10	< 1	0.22	17	0.95	0.159	0.051	2.22	2	1	74	< 0.01	1	< 2	< 10	13	< 10	3	19		
1226020284 Orig																							
1226020284 Dup																							
1226015363 Orig																						0.14	0.71
1226015363 Dup																						0.15	0.74
1226016330 Orig	67	2.52	< 10	< 1	0.21	18	1.24	0.259	0.047	2.16	< 2	1	90	< 0.01	< 1	< 2	< 10	12	< 10	3	21		
1226016330 Dup	71	2.49	< 10	< 1	0.20	18	1.21	0.254	0.047	2.12	< 2	1	86	< 0.01	1	< 2	< 10	11	< 10	3	21		
1227042026 Orig																							
1227042026 Dup																							
1227042118 Orig																						0.19	1.50
1227042118 Dup																						0.19	1.51
1226016288 Orig																							
1226016288 Dup																							
1226016205 Orig																							
1226016205 Dup																							
1226016234 Orig	104	4.31	< 10	1	0.04	< 10	1.67	0.468	0.019	0.08	3	5	69	0.22	< 1	< 2	< 10	132	< 10	4	3	0.06	0.06
1226016234 Dup	105	4.21	< 10	< 1	0.04	< 10	1.64	0.460	0.019	0.07	< 2	5	69	0.23	< 1	< 2	< 10	132	< 10	4	3	0.06	0.07
1226016115 Orig																							
1226016115 Dup																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
1232012313 Orig																						0.47	0.61	
1232012313 Dup																							0.48	0.58
1226017443 Orig																								
1226017443 Dup																								
1226017032 Orig																							0.09	1.36
1226017032 Dup																							0.09	1.26
1226017322 Orig	212	2.92	< 10	< 1	0.16	16	1.00	0.127	0.041	2.89	< 2	< 1	87	0.01	< 1	< 2	< 10	9	< 10	2	19			
1226017322 Dup	209	2.92	< 10	< 1	0.16	16	1.00	0.128	0.042	2.85	< 2	< 1	87	0.01	< 1	< 2	< 10	9	< 10	2	19			
1232012008 Orig																								
1232012008 Dup																								
1226017215 Orig																								
1226017215 Dup																								
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1			
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1			
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1			
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1			
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1			
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1			
Method Blank																								
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Report No.: A20-07082
Report Date: 07-Aug-20
Date Submitted: 06-Jul-20
Your Reference: May 2020 Check Assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

148 Pulp samples were submitted for analysis.

Table with 3 columns: Analytical package(s) requested, Testing Date, and details. Rows include 1A2-50-Tbay, 1A3-50-Tbay, and 1E3-Tbay NewGold.

REPORT A20-07082

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

<original signed by>

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Report No.: A20-07082
Report Date: 07-Aug-20
Date Submitted: 06-Jul-20
Your Reference: May 2020 Check Assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

148 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek Package	Acid Base Accounting	2020-07-20 21:51:27
4F-C, S	Infrared	2020-07-15 19:44:33

REPORT A20-07082

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

<original signed by>



Emmanuel Esemé, Ph.D.
Quality Control Coordinator

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E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A20-07082

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1225006257	61.9	37.9	-24.0	74.7	0.507	8.78	> 5000	2.7	18.2	80	945	< 1	12	54	4210	1.18	71	< 10	48	< 0.5	< 2	1.60	10
1232013029	10.4	16.6	6.19	15.3	1.08	9.18	40	0.4	< 0.5	19	531	1	14	9	53	2.94	17	< 10	66	< 0.5	< 2	1.82	8
1225006267	10.0	5.12	-4.88	9.80	0.522	8.58	18	< 0.2	< 0.5	18	169	1	10	2	157	2.36	10	< 10	27	< 0.5	2	0.65	7
1226009229	42.2	8.74	-33.4	46.9	0.186	8.75	187	0.6	0.6	80	497	1	10	4	201	2.23	8	< 10	44	< 0.5	< 2	1.08	8
1225006212	45.0	68.2	23.2	50.8	1.34	9.11	128	0.6	2.2	24	742	1	12	22	526	0.71	74	< 10	33	< 0.5	< 2	2.36	9
1225006317	11.9	3.86	-8.01	11.6	0.332	8.21	28	< 0.2	0.5	16	177	2	16	3	157	1.73	10	< 10	21	< 0.5	2	0.44	7
1225006154	26.1	3.24	-22.9	30.0	0.108	7.59	956	0.4	3.0	35	134	2	16	7	836	0.79	77	< 10	30	< 0.5	< 2	0.12	8
1232013016	6.04	23.1	17.0	9.19	2.51	9.04	12	0.5	< 0.5	13	517	2	20	6	112	2.45	5	< 10	62	< 0.5	< 2	2.03	10
1225006059	55.8	73.7	17.9	63.4	1.16	8.85	306	1.5	4.0	40	882	1	12	36	873	0.62	168	< 10	25	< 0.5	3	2.73	8
1225006033	48.4	72.6	24.2	55.4	1.31	8.90	73	1.1	< 0.5	24	1020	1	12	24	133	1.25	74	< 10	40	< 0.5	3	2.97	10
1225006070	47.7	46.0	-1.70	53.3	0.863	8.70	154	2.5	1.0	45	902	2	13	38	257	1.45	53	< 10	37	< 0.5	3	2.10	9
1225006013	50.3	41.1	-9.21	55.7	0.737	8.85	137	1.3	1.2	34	870	2	12	49	309	1.45	45	< 10	34	< 0.5	3	1.85	9
1225006272	45.5	3.62	-41.9	50.2	0.0721	8.38	250	0.4	5.6	27	108	1	15	6	1390	1.19	64	< 10	57	< 0.5	2	0.44	12
1225006050	80.1	48.5	-31.6	89.4	0.543	8.79	375	5.1	7.1	114	810	2	14	71	1490	0.73	140	< 10	31	< 0.5	3	1.74	10
1225006007	88.5	47.8	-40.7	100	0.477	8.70	823	37.9	11.9	196	891	2	15	78	2250	0.76	147	< 10	32	< 0.5	3	1.72	10
1233005004	9.99	35.0	25.0	13.2	2.66	9.21	11	0.3	< 0.5	26	554	1	21	< 2	114	2.51	7	< 10	56	< 0.5	< 2	2.32	13
V860694							119	1.7	< 0.5	59	349	4	12	11	64	1.52	< 2	< 10	83	< 0.5	< 2	1.13	15
1226009076	39.4	13.2	-26.2	43.2	0.306	8.80	228	0.5	< 0.5	112	302	3	11	3	55	1.58	8	< 10	57	< 0.5	2	0.97	9
1225006234	13.4	3.49	-9.94	13.2	0.265	8.24	452	0.3	1.2	41	136	2	14	2	447	0.64	13	< 10	36	< 0.5	< 2	0.15	8
1226027049	53.5	17.8	-35.7	59.1	0.301	8.80	116	0.9	< 0.5	78	545	4	18	4	181	1.83	18	< 10	46	< 0.5	2	1.42	10
1225006390	56.3	14.1	-42.3	63.1	0.223	8.61	669	1.0	6.1	76	752	1	14	28	1590	1.58	89	< 10	35	< 0.5	< 2	0.77	11
1226027040	28.6	19.5	-9.09	32.8	0.596	9.15	45	0.7	1.9	59	787	1	16	3	426	2.78	13	< 10	90	< 0.5	3	1.77	11
1226009109	31.7	24.7	-6.99	36.1	0.683	9.04	132	2.4	< 0.5	29	509	1	14	4	155	1.60	28	< 10	54	< 0.5	3	1.27	9
1225006377	57.3	22.6	-34.7	73.2	0.308	8.76	673	0.7	30.0	131	603	< 1	15	7	7530	0.70	74	< 10	49	< 0.5	< 2	0.95	12
1226009238	37.4	12.8	-24.6	42.6	0.301	8.87	71	0.7	0.5	102	532	2	19	7	158	2.02	13	< 10	75	< 0.5	2	1.35	9
1225006225	14.9	12.9	-2.02	17.8	0.725	8.70	41	< 0.2	0.7	19	300	1	13	5	204	1.75	47	< 10	23	< 0.5	< 2	0.83	7
1225006452	110	26.4	-83.6	119	0.223	8.36	176	0.8	5.6	24	874	1	13	27	1420	0.62	119	< 10	26	< 0.5	< 2	1.11	9
1226027059	55.2	31.6	-23.6	60.0	0.526	8.66	222	1.9	0.5	260	488	3	14	6	65	1.50	9	< 10	62	< 0.5	7	1.76	9
1226009111	37.7	23.3	-14.4	42.3	0.552	8.91	234	0.7	0.5	99	488	2	16	5	133	1.52	14	< 10	41	< 0.5	3	1.17	9
1225006368	13.1	3.49	-9.63	12.9	0.271	8.48	14	< 0.2	< 0.5	17	179	2	14	3	148	1.85	12	< 10	29	0.6	2	0.47	7
1225006293	56.7	21.9	-34.8	64.6	0.338	8.60	533	1.1	5.0	97	697	1	15	20	1020	1.92	49	< 10	37	< 0.5	< 2	1.39	10
1226009151	35.1	29.1	-6.02	39.8	0.730	9.03	140	1.4	< 0.5	35	459	2	15	5	114	1.51	23	< 10	46	< 0.5	5	1.36	9
1225006182	71.5	25.1	-46.5	79.6	0.315	8.70	210	1.4	7.7	74	622	2	15	32	1940	1.59	31	< 10	53	< 0.5	< 2	1.20	12
1232013007	22.8	17.1	-5.74	27.0	0.633	8.91	561	4.8	< 0.5	24	756	1	14	28	109	1.58	33	< 10	42	< 0.5	2	1.26	9
1226027162	52.1	8.87	-43.2	56.0	0.158	8.76	112	0.7	0.6	157	219	2	11	2	153	1.50	5	< 10	24	< 0.5	7	0.72	7
1225006174	74.6	12.0	-62.6	79.9	0.150	8.60	568	1.1	2.5	31	268	1	12	23	684	0.58	174	< 10	25	< 0.5	< 2	0.61	10
V860695							728	3.2	< 0.5	33	263	17	10	17	43	1.20	< 2	< 10	61	< 0.5	< 2	1.95	10
1225009011	32.1	18.6	-13.5	36.8	0.507	8.82	118	1.7	0.6	54	651	1	13	26	227	1.82	16	< 10	46	< 0.5	3	1.25	10
1225004317	68.3	9.25	-59.1	75.0	0.123	8.47	462	1.3	< 0.5	213	370	4	15	5	63	1.92	10	< 10	51	< 0.5	5	0.69	12
1233004049	1.88	21.2	19.3	1.84	11.5	9.44	< 5	< 0.2	< 0.5	21	425	2	19	< 2	83	2.00	2	< 10	74	< 0.5	< 2	1.54	12
1225004300	80.7	8.87	-71.9	87.0	0.102	8.51	170	1.2	0.6	170	450	1	14	10	201	2.46	15	< 10	47	< 0.5	4	1.03	9
1225004211	64.2	6.35	-57.8	68.9	0.0922	8.46	148	0.7	< 0.5	112	352	2	11	5	49	2.67	8	< 10	33	< 0.5	4	1.15	9
1225004310	70.2	13.5	-56.7	77.5	0.174	8.53	176	0.9	< 0.5	76	410	2	15	8	114	2.52	10	< 10	50	< 0.5	5	1.21	10
1225004174	43.9	14.5	-29.5	54.5	0.266	8.69	255	0.9	< 0.5	215	468	4	18	3	66	1.73	10	< 10	61	< 0.5	3	0.84	10
1225005175	42.6	37.4	-5.17	49.3	0.759	8.89	242	1.4	< 0.5	23	793	2	14	29	129	1.75	26	< 10	45	< 0.5	3	1.91	9
1225004331	57.1	12.9	-44.2	68.0	0.189	8.69	133	1.2	0.8	44	449	2	12	7	192	2.53	13	< 10	43	< 0.5	6	1.31	9
1225004157	33.5	10.4	-23.2	40.7	0.254	8.71	121	0.2	< 0.5	32	175	2	13	5	44	1.80	17	< 10	57	0.5	4	0.71	8
1225004330	67.9	22.9	-45.0	78.1	0.294	8.64	172	0.9	3.1	105	522	2	14	4	669	2.28	7	< 10	47	< 0.5	4	1.53	9
1225009001	4.16	13.8	9.67	7.66	1.81	9.14	26	0.5	< 0.5	32	533	1	16	7	58	2.24	5	13	41	< 0.5	2	1.15	9

Results

Activation Laboratories Ltd.

Report: A20-07082

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1225004243	66.9	10.8	-56.0	72.3	0.150	8.44	214	0.7	< 0.5	90	397	< 1	12	8	51	2.80	8	< 10	41	< 0.5	4	1.30	9
1225005225	53.1	36.7	-16.5	60.9	0.601	9.00	95	1.3	0.9	31	990	2	12	36	257	1.47	27	< 10	38	< 0.5	2	1.79	8
1225005031	22.6	85.7	63.1	33.1	2.59	9.23	142	1.4	1.4	30	1110	2	13	27	319	1.98	20	< 10	53	< 0.5	3	2.09	10
1225004178	44.6	11.6	-32.9	63.7	0.182	8.58	91	0.5	< 0.5	90	481	6	19	4	129	1.23	14	< 10	47	< 0.5	< 2	0.79	11
1225005121	42.6	50.4	7.77	51.5	0.979	9.02	180	1.1	0.5	25	998	1	13	31	140	1.68	32	< 10	43	< 0.5	2	2.12	9
1225004193	56.1	11.6	-44.5	71.1	0.163	8.46	393	1.0	0.9	191	479	4	14	5	182	2.97	12	< 10	58	< 0.5	5	1.51	11
1225004082	51.1	14.9	-36.3	56.3	0.264	8.80	45	0.4	0.6	50	508	3	14	5	167	1.34	10	< 10	39	< 0.5	< 2	0.98	10
1225005220	33.4	40.7	7.30	45.6	0.892	9.01	121	1.0	< 0.5	34	1010	1	15	32	133	1.91	31	< 10	48	< 0.5	2	1.81	8
1225004105	19.7	14.5	-5.19	24.5	0.592	8.89	73	0.3	< 0.5	34	425	2	17	6	62	2.52	11	< 10	59	< 0.5	< 2	1.37	10
1225004095	49.6	7.12	-42.5	55.4	0.128	8.50	2160	1.6	< 0.5	353	505	4	15	4	64	2.67	10	< 10	59	< 0.5	3	1.45	10
V860696							981	2.5	< 0.5	61	395	11	16	9	56	1.60	< 2	< 10	82	< 0.5	< 2	1.27	16
1225012354	50.8	20.6	-30.2	62.2	0.331	8.63	86	0.6	< 0.5	97	541	3	22	2	185	2.06	12	< 10	36	< 0.5	4	1.42	9
1225017207	35.4	11.3	-24.1	41.3	0.274	8.62	210	0.3	< 0.5	98	327	2	18	5	34	2.36	15	< 10	35	< 0.5	3	1.10	8
1225012303	51.0	7.85	-43.2	59.1	0.133	8.74	385	1.5	3.1	161	745	2	19	3	837	2.39	10	< 10	60	< 0.5	5	0.82	12
1225012393	53.5	9.49	-44.0	61.6	0.154	8.53	47	0.2	< 0.5	17	489	1	12	4	52	2.64	7	12	57	< 0.5	5	1.43	8
1225012397	72.1	7.48	-64.6	78.4	0.0955	8.50	74	0.3	< 0.5	32	442	1	14	5	54	3.30	9	< 10	54	< 0.5	3	1.70	9
1225012256	54.2	13.1	-41.1	60.6	0.216	8.56	190	0.9	1.5	165	621	2	15	6	481	2.94	14	< 10	48	< 0.5	4	1.41	9
1225012331	123	4.36	-119	129	0.0338	7.83	137	0.5	< 0.5	36	278	2	17	5	43	1.49	12	< 10	32	< 0.5	6	0.40	10
1225012162	48.3	10.3	-38.0	54.5	0.190	8.49	940	1.0	< 0.5	298	484	3	19	6	96	2.30	11	< 10	72	< 0.5	5	0.79	10
1225012116	26.6	23.6	-2.94	30.6	0.771	8.88	955	0.8	< 0.5	165	518	3	18	4	75	2.28	7	< 10	62	< 0.5	3	1.51	9
1225012273	73.3	14.8	-58.5	88.8	0.167	8.53	162	0.7	< 0.5	10	279	1	13	6	33	1.45	22	< 10	52	< 0.5	5	0.76	8
1225012248	45.6	10.7	-34.9	55.7	0.193	8.83	145	0.5	1.0	45	474	1	12	3	311	2.64	13	< 10	55	< 0.5	6	1.33	9
1225012111	11.8	18.2	6.41	15.9	1.14	9.21	246	0.2	< 0.5	22	631	2	14	< 2	80	2.72	5	< 10	87	< 0.5	3	1.47	8
1225012221	60.4	11.2	-49.2	69.5	0.162	8.47	233	1.0	< 0.5	269	375	3	16	6	42	2.10	11	< 10	49	< 0.5	8	1.05	9
1225012231	60.0	9.08	-50.9	68.3	0.133	8.66	636	0.6	< 0.5	203	377	< 1	12	5	63	2.00	15	< 10	50	< 0.5	8	0.55	10
1225012285	72.4	7.99	-64.4	79.3	0.101	8.59	150	0.7	< 0.5	188	432	< 1	11	4	51	2.40	11	10	52	< 0.5	6	1.03	8
1232014005	2.81	19.1	16.3	7.35	2.60	9.50	22	0.3	< 0.5	30	483	2	26	2	117	1.58	4	< 10	69	< 0.5	< 2	1.28	11
1232014110	6.45	26.6	20.2	11.9	2.23	9.73	12	0.3	< 0.5	21	564	2	23	< 2	122	1.74	5	< 10	98	< 0.5	< 2	1.53	11
V860697							730	3.1	< 0.5	34	269	14	12	19	43	1.26	< 2	< 10	61	< 0.5	< 2	2.04	12
1433001142	71.0	89.5	18.5	94.3	0.949	8.56	277	1.8	1.2	66	1480	< 1	91	3	302	4.57	19	< 10	48	< 0.5	3	4.40	31
1434002011	3.63	121	117	11.0	11.0	8.83	< 5	0.3	< 0.5	209	1120	< 1	65	< 2	92	4.53	5	< 10	17	< 0.5	3	5.50	33
1434002119	9.37	43.1	33.7	14.4	3.00	9.07	899	0.3	1.1	55	1010	1	24	4	297	2.21	5	< 10	54	< 0.5	< 2	2.43	13
1433001136	7.90	63.9	56.0	15.9	4.01	9.04	46	0.5	< 0.5	75	943	1	62	2	211	3.52	10	< 10	36	< 0.5	< 2	3.36	24
1225014187	9.78	6.24	-3.54	16.8	0.370	8.95	33	0.5	1.4	21	609	1	14	17	451	3.08	9	13	46	< 0.5	3	1.14	11
1433001133	29.4	31.6	2.21	36.1	0.874	8.73	47	0.3	< 0.5	59	528	2	39	4	112	1.59	4	< 10	32	< 0.5	< 2	1.63	18
1433001091	43.2	81.0	37.8	62.2	1.30	8.55	60	1.2	0.8	213	1340	< 1	71	5	215	5.17	14	< 10	52	< 0.5	3	4.92	34
1433001076	87.7	95.2	7.55	107	0.888	8.41	151	1.3	1.9	81	1380	< 1	55	5	457	3.30	31	< 10	33	< 0.5	3	3.95	29
1225014265	2.50	9.74	7.24	2.45	3.98	8.89	< 5	0.2	< 0.5	126	592	< 1	59	< 2	49	5.51	< 2	< 10	15	< 0.5	< 2	3.84	25
1433001123	18.7	76.8	58.0	27.9	2.76	8.88	6	0.4	< 0.5	114	986	< 1	93	< 2	94	4.97	7	< 10	30	< 0.5	2	4.69	34
1433001105	9.05	83.0	74.0	18.4	4.52	8.96	11	0.5	0.5	48	1330	< 1	151	< 2	179	6.00	8	< 10	73	< 0.5	3	5.04	36
1433001152	8.53	82.9	74.4	18.1	4.59	8.69	< 5	0.4	< 0.5	93	1270	< 1	75	< 2	135	4.86	11	< 10	30	< 0.5	4	4.46	34
1225014058	60.0	13.7	-46.2	80.8	0.170	8.41	303	0.5	< 0.5	123	366	1	16	3	63	2.14	21	< 10	34	< 0.5	5	0.98	9
1225014014	87.3	4.11	-83.2	96.5	0.0426	8.08	1930	0.3	< 0.5	18	321	2	20	4	58	1.54	8	< 10	29	< 0.5	4	0.43	12
1433001034	49.2	96.7	47.5	68.3	1.42	8.45	251	2.0	0.6	108	1570	< 1	42	5	225	4.38	22	< 10	54	< 0.5	3	5.28	37
1225014011	48.3	9.74	-38.6	55.1	0.177	8.62	2220	1.0	< 0.5	119	457	2	19	4	121	2.28	10	< 10	39	< 0.5	5	1.13	8
1433001042	3.01	106	103	11.3	9.32	8.83	17	0.3	< 0.5	106	938	< 1	71	< 2	120	3.81	6	< 10	76	< 0.5	3	4.86	29
1225014044	109	11.0	-98.3	116	0.0946	8.29	96	0.3	< 0.5	36	556	2	22	6	84	1.94	10	< 10	22	< 0.5	4	0.83	13
1225008353	55.7	15.7	-40.0	61.9	0.254	8.52	140	0.5	2.6	114	709	3	30	< 2	627	2.02	5	< 10	33	< 0.5	3	1.11	12
1225014252	2.19	12.6	10.4	2.14	5.89	8.91	< 5	< 0.2	< 0.5	126	570	< 1	57	< 2	45	5.76	< 2	< 10	20	< 0.5	2	3.99	24

Results

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Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1225007321	26.9	8.91	-18.0	30.3	0.294	8.86	90	0.3	< 0.5	83	417	2	19	3	72	2.69	11	< 10	55	< 0.5	4	1.56	8
V860698							972	2.5	< 0.5	60	410	11	17	8	57	1.70	< 2	< 10	84	< 0.5	< 2	1.35	18
1225017222	40.5	7.54	-33.0	45.9	0.164	8.97	152	3.8	1.0	58	585	2	16	3	416	2.11	22	< 10	65	< 0.5	5	0.62	10
1225017273	54.2	13.1	-41.0	59.1	0.222	8.85	173	3.4	1.9	163	430	1	11	2	508	2.06	24	< 10	38	< 0.5	7	1.07	9
1225008090	47.9	16.3	-31.6	53.0	0.308	8.89	282	0.5	0.8	89	436	5	23	3	273	1.17	12	< 10	49	< 0.5	3	0.87	10
1225008036	55.5	19.9	-35.6	65.2	0.306	8.72	167	0.7	0.7	177	382	7	25	2	221	1.47	13	< 10	33	< 0.5	4	1.12	11
1225008380	12.5	13.3	0.768	19.6	0.676	9.10	89	0.4	1.2	76	774	3	16	25	338	3.21	10	< 10	65	< 0.5	4	1.81	10
1225008274	57.5	20.6	-36.9	65.5	0.314	8.70	151	0.9	1.2	77	539	4	21	9	289	1.85	16	< 10	39	< 0.5	4	1.48	12
1225011063	52.0	7.97	-44.0	61.9	0.129	8.60	1150	2.0	< 0.5	438	401	5	19	3	98	1.79	12	< 10	24	< 0.5	5	0.76	11
1225008076	43.5	17.5	-26.0	51.8	0.339	8.84	94	0.6	0.6	119	387	5	20	3	204	1.37	13	< 10	58	< 0.5	< 2	0.99	9
1225017175	45.5	14.7	-30.8	52.1	0.282	8.80	166	3.2	< 0.5	26	549	3	18	6	182	1.94	21	< 10	40	< 0.5	6	0.88	10
1225008019	59.7	12.9	-46.8	68.0	0.189	8.70	61	0.5	< 0.5	83	366	6	23	3	111	2.12	7	< 10	39	< 0.5	5	1.20	11
1225017154	33.8	9.47	-24.4	37.7	0.251	8.73	161	0.7	0.5	318	381	2	12	12	53	3.06	12	15	39	< 0.5	3	0.96	12
1225008083	50.6	18.5	-32.1	55.7	0.332	8.88	38	0.5	0.8	106	309	5	20	3	190	1.15	11	< 10	46	< 0.5	6	0.91	10
1225017224	40.0	12.8	-27.2	47.8	0.268	8.87	232	5.1	1.2	33	578	3	15	3	344	2.25	32	< 10	49	< 0.5	6	1.07	9
1225008004	67.5	22.5	-45.0	80.5	0.279	8.63	401	1.8	6.4	455	589	4	32	7	1470	1.96	18	< 10	29	< 0.5	5	1.64	16
1225017053	25.3	13.2	-12.1	30.6	0.431	8.76	249	0.3	< 0.5	65	243	3	16	11	60	1.76	8	13	58	< 0.5	5	0.93	11
1225012414	87.2	7.85	-79.3	95.9	0.0819	8.44	132	0.5	< 0.5	77	446	5	18	3	110	1.91	11	< 10	22	< 0.5	7	0.82	11
1225017238	28.7	11.3	-17.4	33.1	0.343	8.91	120	0.3	< 0.5	29	384	3	20	< 2	114	1.96	12	< 10	37	< 0.5	3	0.81	9
1225008168	50.0	10.7	-39.3	56.7	0.189	8.72	67	0.3	0.9	84	538	4	30	3	260	2.60	3	< 10	24	< 0.5	< 2	1.60	13
1225012449	73.6	15.7	-57.9	79.6	0.197	8.53	85	0.5	1.1	70	477	2	16	6	432	2.73	14	15	46	< 0.5	5	1.64	11
1225017101	45.4	15.3	-30.1	51.1	0.299	8.62	633	0.7	< 0.5	357	239	2	13	5	26	2.13	12	14	48	< 0.5	4	0.97	12
1225012466	97.8	4.52	-93.3	105	0.0432	8.08	62	0.3	< 0.5	16	489	3	16	3	82	2.61	10	< 10	17	< 0.5	5	0.90	9
1225008112	4.38	8.99	4.61	4.29	2.10	9.11	6	0.2	< 0.5	125	478	< 1	52	< 2	56	5.68	< 2	< 10	17	< 0.5	2	3.94	23
1225017293	16.5	11.7	-4.71	19.3	0.609	8.88	99	0.3	< 0.5	112	411	2	16	< 2	41	3.71	5	12	38	< 0.5	5	1.49	9
V860699							120	1.7	< 0.5	59	358	5	14	11	64	1.63	< 2	< 10	82	< 0.5	< 2	1.18	15
1433001005	22.4	124	101	36.1	3.43	8.49	70	1.2	1.2	224	1410	< 1	104	7	312	4.96	17	< 10	25	< 0.5	4	4.56	42
1433001018	90.4	130	39.3	135	0.958	8.43	850	5.0	12.1	95	2250	< 1	17	6	2130	2.82	75	< 10	34	< 0.5	3	4.71	24
1225008359	46.7	8.41	-38.2	51.5	0.163	8.59	77	0.4	1.0	99	452	6	23	2	313	1.67	7	< 10	31	< 0.5	4	0.90	11
1225017013	43.4	20.9	-22.5	48.4	0.432	8.79	167	0.6	< 0.5	21	253	3	21	3	85	1.47	13	< 10	47	< 0.5	4	1.06	15
1225008204	36.3	28.9	-7.48	47.2	0.612	8.77	122	1.0	0.8	83	648	5	23	2	201	1.75	9	< 10	52	< 0.5	3	1.72	9
1225017056	29.5	15.2	-14.2	36.8	0.414	8.99	49	< 0.2	< 0.5	11	173	2	22	3	74	1.44	5	< 10	52	< 0.5	3	1.04	11
1225008214	53.9	17.3	-36.6	62.2	0.279	8.79	191	0.7	1.4	103	526	5	21	3	332	1.60	11	< 10	31	< 0.5	4	1.35	11
1225017134	36.2	20.5	-15.7	46.2	0.443	8.76	100	0.7	0.7	38	462	1	18	4	211	2.23	12	10	53	< 0.5	6	1.32	12
1225008246	41.2	22.8	-18.4	47.5	0.481	8.87	86	0.4	1.0	102	542	5	21	2	246	1.28	9	< 10	49	< 0.5	5	1.28	10
1225008370	44.7	16.6	-28.1	57.9	0.286	8.63	327	0.5	< 0.5	89	502	5	21	3	137	2.29	10	< 10	43	< 0.5	6	1.54	10
1225008286	52.5	17.5	-35.0	60.9	0.287	8.65	301	0.5	0.9	102	584	5	22	< 2	219	1.46	13	< 10	37	< 0.5	3	1.27	11
1225017065	29.7	17.0	-12.7	36.1	0.471	8.90	54	1.0	< 0.5	25	557	2	22	6	107	2.27	20	< 10	58	< 0.5	5	1.08	11
1225008230	47.6	13.1	-34.5	61.3	0.213	8.71	260	0.7	1.7	91	580	6	24	2	428	1.24	10	< 10	23	< 0.5	3	0.89	13
1225008305	43.1	7.17	-35.9	49.9	0.144	8.74	239	0.2	1.4	56	469	2	18	< 2	353	1.59	6	< 10	22	< 0.5	< 2	0.61	9
1225017187	39.4	7.10	-32.3	43.8	0.162	8.92	99	0.6	< 0.5	65	239	2	16	2	139	2.63	11	11	50	< 0.5	6	0.96	14
1225008117	7.08	9.33	2.25	11.6	0.802	9.00	84	0.3	0.5	129	562	2	51	< 2	102	5.49	< 2	< 10	22	< 0.5	3	3.73	22
1225008312	41.2	11.5	-29.7	49.3	0.234	8.82	203	0.5	0.5	104	465	5	22	2	218	1.34	9	< 10	60	< 0.5	3	0.97	11
1225008127	47.4	17.8	-29.6	57.6	0.309	8.77	70	0.6	1.2	132	445	5	20	2	309	1.40	11	< 10	48	< 0.5	3	1.24	11
1225011118	41.5	22.8	-18.7	59.4	0.384	8.83	166	0.5	< 0.5	125	434	6	22	2	54	1.23	9	< 10	52	< 0.5	3	1.08	10
1225017121	38.2	15.4	-22.8	46.9	0.328	8.86	84	1.1	0.7	33	565	2	20	6	224	2.06	20	< 10	55	< 0.5	6	1.08	10
1225008217	49.1	35.0	-14.1	59.1	0.593	8.77	162	0.7	1.0	92	563	5	18	3	239	1.87	11	< 10	47	< 0.5	6	2.06	10
1225008047	4.38	9.78	5.41	4.29	2.28	8.98	10	0.2	< 0.5	129	511	2	59	< 2	72	5.20	< 2	< 10	16	< 0.5	< 2	3.56	24
V860700							755	3.2	< 0.5	34	273	15	12	20	45	1.31	< 2	< 10	64	0.5	< 2	2.07	11

Results

Activation Laboratories Ltd.

Report: A20-07082

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1225017047	42.5	9.69	-32.8	46.5	0.208	8.30	207	0.4	< 0.5	92	238	2	14	2	38	2.06	13	11	62	< 0.5	6	0.67	12

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
1225006257	5.15
1232013029	
1225006267	
1226009229	
1225006212	
1225006317	
1225006154	
1232013016	
1225006059	
1225006033	
1225006070	
1225006013	
1225006272	
1225006050	
1225006007	
1233005004	
V860694	
1226009076	
1225006234	
1226027049	
1225006390	
1226027040	
1226009109	
1225006377	
1226009238	
1225006225	
1225006452	
1226027059	
1226009111	
1225006368	
1225006293	
1226009151	
1225006182	
1232013007	
1226027162	
1225006174	
V860695	
1225009011	
1225004317	
1233004049	
1225004300	
1225004211	
1225004310	
1225004174	
1225005175	
1225004331	
1225004157	
1225004330	
1225009001	
1225004243	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
1225005225	
1225005031	
1225004178	
1225005121	
1225004193	
1225004082	
1225005220	
1225004105	
1225004095	
V860696	
1225012354	
1225017207	
1225012303	
1225012393	
1225012397	
1225012256	
1225012331	
1225012162	
1225012116	
1225012273	
1225012248	
1225012111	
1225012221	
1225012231	
1225012285	
1232014005	
1232014110	
V860697	
1433001142	
1434002011	
1434002119	
1433001136	
1225014187	
1433001133	
1433001091	
1433001076	
1225014265	
1433001123	
1433001105	
1433001152	
1225014058	
1225014014	
1433001034	
1225014011	
1433001042	
1225014044	
1225008353	
1225014252	
1225007321	
V860698	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
1225017222	
1225017273	
1225008090	
1225008036	
1225008380	
1225008274	
1225011063	
1225008076	
1225017175	
1225008019	
1225017154	
1225008083	
1225017224	
1225008004	
1225017053	
1225012414	
1225017238	
1225008168	
1225012449	
1225017101	
1225012466	
1225008112	
1225017293	
V860699	
1433001005	
1433001018	
1225008359	
1225017013	
1225008204	
1225017056	
1225008214	
1225017134	
1225008246	
1225008370	
1225008286	
1225017065	
1225008230	
1225008305	
1225017187	
1225008117	
1225008312	
1225008127	
1225011118	
1225017121	
1225008217	
1225008047	
V860700	
1225017047	

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas								0.3	< 0.5	74	1070	1	25	95	122	7.32	246	< 10	742	0.9	4	0.13	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.4	< 0.5	71	1010	2	23	95	123	6.82	244	< 10	665	0.9	3	0.13	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.4	< 0.5	72	1040	2	23	96	125	7.04	246	< 10	697	0.9	2	0.13	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
BaSO4 Meas																							
BaSO4 Cert																							
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SGR-1b Meas																							
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GS311-4 Meas																							
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GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
NBM-1 (slight fzz)		43.1				8.55																	

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Meas																							
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.1				8.55																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.1				8.55																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.1																					
NBM-1 (slight fzz) Cert		46.6																					
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2260	783	< 1	35	59	252	2.94	8		80	0.8	10	0.41	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2200	744	< 1	32	58	257	2.79	8		78	0.8	9	0.41	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2230	753	< 1	33	62	255	2.87	7		83	0.8	13	0.42	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								1.7	< 0.5	4260	852	< 1	31	76	322	2.81	7		63	0.7	19	0.40	20
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								2.8	< 0.5	4380	841	< 1	29	81	331	2.82	7		61	0.7	19	0.41	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.9	< 0.5	4520	859	< 1	34	84	326	2.92	6		68	0.7	23	0.42	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 621 (Aqua Regia) Meas								66.9	282	3500	527	13	25	> 5000	> 10000	1.76	82			0.6	7	1.67	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								68.6	280	3560	519	13	23	> 5000	> 10000	1.70	78			0.6	7	1.65	29
Oreas 621 (Aqua								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Regia) Cert																							
Oreas 621 (Aqua Regia) Meas								68.2	281	3570	525	13	24	> 5000	> 10000	1.70	77			0.6	6	1.66	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 229b (Fire Assay) Meas																							
OREAS 229b (Fire Assay) Cert																							
OREAS 45f (Aqua Regia) Meas										363	167	< 1	219	9	27	7.26			132	1.0	2	0.07	37
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										374	172	1	232	10	27	7.37			138	1.0	5	0.07	37
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 238 (Fire Assay) Meas								3050															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3110															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								2990															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3180															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3160															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3150															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3060															
OREAS 238 (Fire Assay) Cert								3030															
GS316-3 Meas																							
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GS316-3 Cert																							
GS316-3 Meas																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
Oreas E1336 (Fire Assay) Meas							515																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							518																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							528																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							491																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							528																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							515																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							513																
Oreas E1336 (Fire Assay) Cert							510																
1225006257 Orig																							
1225006059 Orig							294	1.7	3.9	40	881	1	12	37	864	0.61	170	< 10	25	< 0.5	3	2.74	9
1225006059 Dup							317	1.3	4.2	41	882	1	12	36	882	0.62	167	< 10	25	< 0.5	3	2.72	8
1225006033 Orig																							
1225006033 Dup																							
1225006234 Orig							440																
1225006234 Dup							464																
1225006390 Orig																							
1225006390 Dup																							
1226009109 Orig							134																
1226009109 Dup							130																
1226009151 Orig								1.5	< 0.5	34	462	2	15	4	114	1.51	21	< 10	45	< 0.5	4	1.36	9
1226009151 Dup								1.4	< 0.5	35	456	2	15	6	113	1.50	24	< 10	46	< 0.5	5	1.36	9
1225004310 Orig																							
1225004310 Dup																							
1225004174 Orig							267																
1225004174 Dup							242																
1225004331 Orig								1.5	0.7	43	447	2	12	9	190	2.52	13	< 10	43	< 0.5	6	1.30	9
1225004331 Dup								1.0	0.9	46	452	2	12	5	193	2.55	13	< 10	43	< 0.5	7	1.32	9

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
1225004330 Orig	67.9	22.9	-45.0	78.1	0.294																			
1225004330 Dup	67.9	22.9	-45.0	78.1	0.294																			
1225005121 Orig								171																
1225005121 Dup								188																
1225004105 Orig								74																
1225004105 Dup								71																
1225004095 Orig									1.7	< 0.5	361	512	4	15	4	65	2.74	11	< 10	59	< 0.5	4	1.47	10
1225004095 Dup									1.5	< 0.5	344	498	4	15	4	63	2.61	8	< 10	58	< 0.5	3	1.42	10
1225012397 Orig																								
1225012397 Dup																								
1225012221 Orig						8.49			1.0	< 0.5	273	377	4	16	5	42	2.12	12	< 10	49	< 0.5	8	1.06	9
1225012221 Dup						8.45			1.0	< 0.5	265	372	3	15	6	41	2.08	10	< 10	49	< 0.5	8	1.04	9
1232014005 Orig																								
1232014005 Dup																								
1433001142 Orig								264																
1433001142 Dup								289																
1225014265 Orig																								
1225014265 Dup																								
1433001105 Orig								11	0.5	0.5	48	1320	< 1	150	< 2	180	5.96	10	< 10	73	< 0.5	4	5.01	37
1433001105 Dup								11	0.5	0.5	49	1330	< 1	152	< 2	178	6.04	6	< 10	74	< 0.5	3	5.06	36
1433001034 Orig								252																
1433001034 Dup								250																
1225014044 Orig	109	11.0	-98.3	116	0.0946																			
1225014044 Dup	109	11.0	-98.3	116	0.0946																			
1225014252 Orig																								
1225014252 Dup																								
1225008090 Orig									0.5	0.9	90	435	5	23	3	275	1.17	13	< 10	51	< 0.5	2	0.86	11
1225008090 Dup									0.5	0.6	89	437	5	23	3	271	1.17	10	< 10	46	< 0.5	4	0.87	10
1225017175 Orig																								
1225017175 Dup																								
1225008004 Orig								437																
1225008004 Dup								364																
1225012414 Orig									0.5	< 0.5	77	446	5	18	3	109	1.91	10	< 10	22	< 0.5	9	0.82	10
1225012414 Dup									0.5	< 0.5	77	446	5	18	3	110	1.92	12	< 10	23	< 0.5	5	0.82	11
1225017101 Orig																								
1225017101 Dup																								
1433001005 Orig								63																
1433001005 Dup								76																
1225017013 Orig								168																
1225017013 Dup								166																
1225017056 Orig									< 0.2	< 0.5	12	174	2	22	3	74	1.43	5	< 10	51	< 0.5	3	1.04	11
1225017056 Dup									< 0.2	< 0.5	11	172	2	22	3	75	1.45	5	< 10	53	< 0.5	3	1.04	10
1225008214 Orig																								
1225008214 Dup																								
1225008127 Orig																								
1225008127 Dup																								
1225017121 Orig	38.2	15.4	-22.8	46.9	0.329																			
1225017121 Dup	38.2	15.3	-22.9	46.9	0.327																			
1225008047 Orig						8.99	8																	

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1225008047 Dup						8.97	11																
1225017047 Orig	42.5	9.70	-32.8	46.5	0.208																		
1225017047 Dup	42.5	9.68	-32.8	46.5	0.208																		
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank							< 5																
Method Blank																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
GXR-6 Meas	79	6.15	20	2	1.20	< 10	0.41	0.126	0.034	0.01	4	18	31		< 1	< 2	< 10	185	< 10	5	8			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
GXR-6 Meas	76	5.45	20	1	1.18	< 10	0.38	0.121	0.032	0.01	3	18	30		< 1	< 2	< 10	172	< 10	4	9			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
GXR-6 Meas	78	5.79	20	2	1.22	< 10	0.39	0.123	0.033	0.01	4	19	31		< 1	< 2	< 10	176	< 10	4	9			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
BaSO4 Meas																							14.2	
BaSO4 Cert																								14.0
BaSO4 Meas																								14.1
BaSO4 Cert																								14.0
BaSO4 Meas																								14.0
BaSO4 Cert																								14.0
BaSO4 Meas																								13.9
BaSO4 Cert																								14.0
BaSO4 Meas																								14.0
BaSO4 Cert																								14.0
SGR-1b Meas																								27.5
SGR-1b Cert																								28
SGR-1b Meas																								27.9
SGR-1b Cert																								28
SGR-1b Meas																								27.5
SGR-1b Cert																								28
SGR-1b Meas																								27.5
SGR-1b Cert																								28
SGR-1b Meas																								27.7
SGR-1b Cert																								28
SGR-1b Meas																								27.7
SGR-1b Cert																								28
SGR-1b Meas																								27.6
SGR-1b Cert																								28
GS311-4 Meas																								1.13
GS311-4 Cert																								1.11
GS311-4 Meas																								1.13
GS311-4 Cert																								1.11
GS311-4 Meas																								1.11
GS311-4 Cert																								1.11
GS311-4 Meas																								1.12
GS311-4 Cert																								1.11
GS311-4 Meas																								1.11
GS311-4 Cert																								1.11
GS311-4 Meas																								1.12
GS311-4 Cert																								1.11
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz)																								

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	44	5.32	< 10		0.50	39	1.36	0.035	0.061	0.37	2	4	18			< 2	< 10	39	< 10	22	17		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	45	4.88	< 10		0.51	38	1.28	0.033	0.060	0.35	2	4	17			< 2	< 10	37	< 10	19	33		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	45	5.26	< 10		0.52	39	1.32	0.035	0.062	0.36	3	4	18			< 2	< 10	38	< 10	19	33		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 923 (AQUA REGIA) Meas	40	5.83	< 10		0.41	35	1.39		0.056	0.64	3	4	15			< 2	< 10	36	< 10	19	27		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	40	5.72	< 10		0.43	35	1.37		0.057	0.65	< 2	4	15			< 2	< 10	36	< 10	17	33		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	41	6.12	< 10		0.45	36	1.41		0.059	0.67	2	4	16			< 2	< 10	37	< 10	18	35		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 621 (Aqua Regia) Meas	29	3.36	10	4	0.39	20	0.43	0.173	0.033	4.55	124	2	20			< 2	< 10	14	< 10	8	64		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	29	3.27	10	4	0.38	20	0.43	0.167	0.032	4.62	119	2	19			< 2	< 10	13	< 10	7	63		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	30	3.30	10	4	0.39	20	0.43	0.169	0.032	4.59	119	2	19			< 2	< 10	13	< 10	7	64		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
Regia) Cert																								
OREAS 229b (Fire Assay) Meas																								
OREAS 229b (Fire Assay) Cert																								
OREAS 45f (Aqua Regia) Meas	338	14.2	20	< 1	0.12	10	0.18	0.051	0.021	0.02		26	15	0.13		< 2	< 10	212			4	20		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217			6.74	30.0		
OREAS 45f (Aqua Regia) Meas	342	14.8	20	< 1	0.12	11	0.18	0.053	0.021	0.02		27	16	0.13		< 2	< 10	216			4	20		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217			6.74	30.0		
OREAS 238 (Fire Assay) Meas																								
OREAS 238 (Fire Assay) Cert																								
OREAS 238 (Fire Assay) Meas																								
OREAS 238 (Fire Assay) Cert																								
OREAS 238 (Fire Assay) Meas																								
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OREAS 238 (Fire Assay) Meas																								
OREAS 238 (Fire Assay) Cert																								
OREAS 238 (Fire Assay) Meas																								
OREAS 238 (Fire Assay) Cert																								
OREAS 238 (Fire Assay) Meas																								
OREAS 238 (Fire Assay) Cert																								
GS316-3 Meas																							0.05	0.35
GS316-3 Cert																							0.0600	0.340
GS316-3 Meas																							0.06	0.33
GS316-3 Cert																							0.0600	0.340
GS316-3 Meas																							0.06	0.33
GS316-3 Cert																							0.0600	0.340
GS316-3 Meas																							0.06	0.34
GS316-3 Cert																							0.0600	0.340
GS316-3 Meas																							0.06	0.33
GS316-3 Cert																							0.0600	0.340
GS316-3 Meas																							0.06	0.33
GS316-3 Cert																							0.0600	0.340
GS316-3 Meas																							0.0600	0.340
GS316-3 Cert																							0.0600	0.340
GS316-3 Meas																							0.05	0.34
GS316-3 Cert																							0.0600	0.340
Oreas E1336 (Fire																								

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1225012397 Orig																						0.18	2.47
1225012397 Dup																						0.17	2.65
1225012221 Orig	296	3.01	< 10	< 1	0.33	13	1.04	0.084	0.038	2.30	< 2	< 1	50	0.03	< 1	< 2	< 10	11	< 10	2	16		
1225012221 Dup	294	2.94	< 10	< 1	0.33	13	1.02	0.082	0.037	2.24	< 2	< 1	49	0.03	< 1	< 2	< 10	11	< 10	2	15		
1232014005 Orig																						0.35	0.24
1232014005 Dup																						0.35	0.24
1433001142 Orig																							
1433001142 Dup																							
1225014265 Orig																						0.16	0.08
1225014265 Dup																						0.17	0.08
1433001105 Orig	174	8.89	20	1	0.56	< 10	2.95	0.410	0.038	0.55	4	12	105	0.13	< 1	< 2	< 10	176	< 10	8	4		
1433001105 Dup	172	9.06	20	2	0.56	< 10	2.99	0.419	0.039	0.55	5	12	106	0.13	< 1	< 2	< 10	178	< 10	8	4		
1433001034 Orig																							
1433001034 Dup																							
1225014044 Orig																							
1225014044 Dup																							
1225014252 Orig																						0.18	0.07
1225014252 Dup																						0.18	0.07
1225008090 Orig	439	2.68	< 10	< 1	0.33	14	0.80	0.081	0.038	1.73	2	2	26	0.03	3	< 2	< 10	24	< 10	3	19		
1225008090 Dup	444	2.68	< 10	< 1	0.33	14	0.81	0.081	0.039	1.71	2	2	26	0.03	2	< 2	< 10	24	< 10	3	19		
1225017175 Orig																						0.28	1.71
1225017175 Dup																						0.29	1.70
1225008004 Orig																							
1225008004 Dup																							
1225012414 Orig	315	3.19	< 10	< 1	0.24	16	0.96	0.153	0.041	3.17	< 2	1	59	< 0.01	2	< 2	< 10	13	< 10	3	25		
1225012414 Dup	317	3.20	< 10	< 1	0.24	16	0.96	0.152	0.042	3.20	< 2	1	59	< 0.01	3	< 2	< 10	13	< 10	3	25		
1225017101 Orig																						0.23	1.67
1225017101 Dup																						0.23	1.67
1433001005 Orig																							
1433001005 Dup																							
1225017013 Orig																							
1225017013 Dup																							
1225017056 Orig	419	1.87	< 10	< 1	0.23	13	0.58	0.129	0.037	1.22	< 2	1	74	0.01	1	< 2	< 10	14	< 10	2	12		
1225017056 Dup	420	1.88	< 10	< 1	0.24	13	0.58	0.133	0.038	1.21	< 2	1	76	0.01	2	< 2	< 10	14	< 10	3	18		
1225008214 Orig																						0.32	2.04
1225008214 Dup																						0.32	2.03
1225008127 Orig																						0.38	1.95
1225008127 Dup																						0.35	1.82
1225017121 Orig																							
1225017121 Dup																							
1225008047 Orig																							
1225008047 Dup																							
1225017047 Orig																							
1225017047 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank																							
Method Blank																							

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
GXR-6 Meas	
GXR-6 Cert	
GXR-6 Meas	
GXR-6 Cert	
GXR-6 Meas	
GXR-6 Cert	
BaSO4 Meas	
BaSO4 Cert	
BaSO4 Meas	
BaSO4 Cert	
BaSO4 Meas	
BaSO4 Cert	
BaSO4 Meas	
BaSO4 Cert	
BaSO4 Meas	
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BaSO4 Cert	
BaSO4 Meas	
BaSO4 Cert	
BaSO4 Meas	
BaSO4 Cert	
BaSO4 Meas	
BaSO4 Cert	
SGR-1b Meas	
SGR-1b Cert	
SGR-1b Meas	
SGR-1b Cert	
SGR-1b Meas	
SGR-1b Cert	
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SGR-1b Cert	
SGR-1b Meas	
SGR-1b Cert	
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
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GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
NBM-1 (slight fzz) Meas	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
NBM-1 (slight fzz) Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 923 (AQUA REGIA) Meas	
OREAS 923 (AQUA REGIA) Cert	
OREAS 923 (AQUA REGIA) Meas	
OREAS 923 (AQUA REGIA) Cert	
OREAS 923 (AQUA REGIA) Meas	
OREAS 923 (AQUA REGIA) Cert	
Oreas 621 (Aqua Regia) Meas	
Oreas 621 (Aqua Regia) Cert	
Oreas 621 (Aqua Regia) Meas	
Oreas 621 (Aqua Regia) Cert	
Oreas 621 (Aqua Regia) Meas	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
Oreas 621 (Aqua Regia) Cert	
OREAS 229b (Fire Assay) Meas	12.0
OREAS 229b (Fire Assay) Cert	11.9
OREAS 45f (Aqua Regia) Meas	
OREAS 45f (Aqua Regia) Cert	
OREAS 45f (Aqua Regia) Meas	
OREAS 45f (Aqua Regia) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
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OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
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GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	
Oreas E1336 (Fire Assay) Meas	
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Oreas E1336 (Fire Assay) Cert	
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	
1225006257 Orig	5.15
1225006059 Orig	
1225006059 Dup	
1225006033 Orig	
1225006033 Dup	
1225006234 Orig	
1225006234 Dup	
1225006390 Orig	
1225006390 Dup	
1226009109 Orig	
1226009109 Dup	
1226009151 Orig	
1226009151 Dup	
1225004310 Orig	
1225004310 Dup	
1225004174 Orig	
1225004174 Dup	
1225004331 Orig	
1225004331 Dup	
1225004330 Orig	
1225004330 Dup	
1225005121 Orig	
1225005121 Dup	
1225004105 Orig	
1225004105 Dup	
1225004095 Orig	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
1225004095 Dup	
1225012397 Orig	
1225012397 Dup	
1225012221 Orig	
1225012221 Dup	
1232014005 Orig	
1232014005 Dup	
1433001142 Orig	
1433001142 Dup	
1225014265 Orig	
1225014265 Dup	
1433001105 Orig	
1433001105 Dup	
1433001034 Orig	
1433001034 Dup	
1225014044 Orig	
1225014044 Dup	
1225014252 Orig	
1225014252 Dup	
1225008090 Orig	
1225008090 Dup	
1225017175 Orig	
1225017175 Dup	
1225008004 Orig	
1225008004 Dup	
1225012414 Orig	
1225012414 Dup	
1225017101 Orig	
1225017101 Dup	
1433001005 Orig	
1433001005 Dup	
1225017013 Orig	
1225017013 Dup	
1225017056 Orig	
1225017056 Dup	
1225008214 Orig	
1225008214 Dup	
1225008127 Orig	
1225008127 Dup	
1225017121 Orig	
1225017121 Dup	
1225008047 Orig	
1225008047 Dup	
1225017047 Orig	
1225017047 Dup	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	< 0.02



Report No.: A20-07084
 Report Date: 30-Jul-20
 Date Submitted: 06-Jul-20
 Your Reference: May 2020 Check Assays

New Gold Inc.
 1800-Two Bentall Centre
 555 Burrard Street, Box 212
 Vancouver BC V7X 1M9
 Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

140 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2020-07-16 10:44:05
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2020-07-15 21:39:45

REPORT **A20-07084**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

Footnote: Insufficient material for samples V860693, V860688, V860689, V860690, V860691, and V860692

CERTIFIED BY:

<original signed by>

Elitsa Hrischeva, Ph.D.
 Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
 1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
 TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
 E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Report No.: A20-07084
Report Date: 30-Jul-20
Date Submitted: 06-Jul-20
Your Reference: May 2020 Check Assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

140 Pulp samples were submitted for analysis.

Table with 3 columns: The following analytical package(s) were requested, Testing Date, and details of packages like 11 ABA Modified Sobek Package and 4F-C, S.

REPORT A20-07084

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
Values which exceed the upper limit should be assayed for accurate numbers.
Footnote: Insufficient material for samples V860693, V860688, V860689, V860690, V860691, and V860692

CERTIFIED BY:

<original signed by>

Elitsa Hrischeva, Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A20-07084

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1434002023	213	8.42	20	2	0.22	< 10	2.49	0.378	0.037	0.27	< 2	14	129	0.13	< 1	< 2	< 10	286	< 10	8	3	1.55	0.28
1434002670	207	9.05	20	3	0.19	< 10	1.79	0.303	0.095	0.89	2	18	61	0.18	< 1	< 2	< 10	199	< 10	18	7	0.45	0.99
1225014109	352	4.79	< 10	< 1	0.25	10	0.54	0.047	0.034	4.74	< 2	< 1	39	< 0.01	2	< 2	< 10	8	< 10	2	22	0.19	4.52
1225014158	202	2.59	< 10	< 1	0.14	15	1.13	0.088	0.046	0.51	< 2	1	129	0.03	< 1	< 2	< 10	20	< 10	2	9	0.20	0.52
1225014085	326	2.42	10	< 1	0.24	15	1.33	0.190	0.042	1.15	< 2	< 1	176	< 0.01	< 1	< 2	< 10	15	< 10	2	13	0.10	1.20
1225014210	147	2.31	< 10	< 1	0.27	13	0.95	0.047	0.034	1.38	< 2	< 1	42	< 0.01	< 1	< 2	< 10	11	< 10	1	17	0.19	1.37
1225014092	211	3.01	< 10	< 1	0.17	12	1.33	0.098	0.036	1.66	< 2	1	112	0.02	< 1	< 2	< 10	14	< 10	2	20	0.22	1.65
V860692																							
1225009119	237	2.03	< 10	< 1	0.27	12	0.91	0.248	0.036	0.89	< 2	1	279	0.04	< 1	< 2	< 10	15	< 10	2	13	0.36	0.89
1225009167	146	2.15	< 10	< 1	0.26	14	0.82	0.047	0.043	1.81	< 2	< 1	63	< 0.01	< 1	< 2	< 10	6	< 10	3	10	1.10	1.69
1225009212	100	2.30	< 10	< 1	0.23	13	0.81	0.046	0.043	2.16	< 2	< 1	58	< 0.01	2	< 2	< 10	5	< 10	3	14	0.92	2.00
1225009155	180	1.98	< 10	< 1	0.25	12	0.83	0.108	0.034	1.05	< 2	< 1	130	0.02	< 1	< 2	< 10	10	< 10	2	18	0.53	1.02
1233004135	299	2.03	< 10	< 1	0.33	15	0.74	0.065	0.039	0.44	< 2	2	29	0.07	2	< 2	< 10	23	< 10	2	15	0.47	0.43
1233006022	126	2.04	< 10	< 1	0.33	17	1.13	0.165	0.040	0.36	< 2	2	63	0.08	2	< 2	< 10	25	< 10	2	15	0.19	0.34
1225009075	415	2.95	< 10	< 1	0.25	25	2.40	0.041	0.097	0.49	< 2	7	142	0.08	< 1	< 2	< 10	52	< 10	4	12	1.22	0.54
1225009058	242	2.11	< 10	< 1	0.26	12	1.10	0.124	0.035	0.61	< 2	1	165	0.04	< 1	< 2	< 10	16	< 10	2	12	0.44	0.61
1225009185	138	1.94	< 10	< 1	0.23	13	0.65	0.043	0.039	1.74	< 2	< 1	52	< 0.01	1	< 2	< 10	4	< 10	2	8	1.23	1.71
1225009138	201	2.30	< 10	1	0.25	10	0.31	0.038	0.041	2.66	9	< 1	30	< 0.01	1	< 2	< 10	4	< 10	2	10	1.11	2.56
1233005019	297	2.23	< 10	< 1	0.39	20	0.96	0.104	0.049	0.16	< 2	2	80	0.11	3	< 2	< 10	32	< 10	3	19	0.28	0.15
2020051301	164	2.39	< 10	< 1	0.22	14	1.50	0.130	0.039	1.27	< 2	< 1	75	0.01	< 1	< 2	< 10	12	< 10	2	20	0.15	1.36
1233004112	285	2.08	< 10	< 1	0.26	15	0.82	0.100	0.041	0.41	< 2	2	54	0.08	2	< 2	< 10	23	< 10	3	16	0.38	0.43
1225009090	124	2.12	< 10	< 1	0.31	17	0.68	0.045	0.043	1.91	2	< 1	38	< 0.01	< 1	< 2	< 10	7	< 10	3	11	1.07	1.90
1225009053	93	2.02	< 10	< 1	0.37	14	1.00	0.037	0.036	1.12	< 2	1	49	0.05	< 1	< 2	< 10	12	< 10	2	17	0.30	1.14
1233005028	268	1.96	< 10	< 1	0.29	14	0.73	0.055	0.042	0.37	< 2	1	25	0.06	< 1	< 2	< 10	20	< 10	2	12	0.47	0.35
1225009046	189	2.21	< 10	< 1	0.24	16	0.63	0.040	0.041	1.84	< 2	< 1	38	< 0.01	2	< 2	< 10	5	< 10	2	11	1.33	1.84
1225009104	113	2.17	< 10	< 1	0.18	14	0.75	0.141	0.038	1.44	< 2	< 1	132	< 0.01	< 1	< 2	< 10	10	< 10	2	18	0.22	1.43
1225009100	186	1.63	< 10	< 1	0.28	13	0.87	0.081	0.035	0.48	< 2	< 1	95	0.05	2	< 2	< 10	11	< 10	2	13	0.48	0.49
1225009199	208	1.82	< 10	< 1	0.22	14	0.63	0.147	0.039	0.65	< 2	1	182	0.04	< 1	< 2	< 10	12	< 10	2	12	0.26	0.66
1225009092	134	1.98	< 10	< 1	0.25	12	0.54	0.039	0.042	1.88	2	< 1	34	< 0.01	1	< 2	< 10	6	< 10	2	9	1.17	1.85
1233004014	245	1.85	< 10	< 1	0.27	14	0.77	0.065	0.037	0.31	< 2	2	27	0.09	< 1	< 2	< 10	24	< 10	3	13	0.40	0.35
1233006005	146	1.89	< 10	< 1	0.35	18	1.02	0.189	0.041	0.46	< 2	2	66	0.05	< 1	< 2	< 10	23	< 10	2	15	0.11	0.46
1233004008	221	1.92	< 10	< 1	0.24	14	1.01	0.095	0.042	0.29	< 2	2	44	0.06	2	< 2	< 10	25	< 10	2	13	0.31	0.28
1233004070	154	2.06	< 10	< 1	0.35	16	0.80	0.226	0.042	0.45	< 2	2	138	0.08	< 1	< 2	< 10	25	< 10	3	14	0.27	0.48
1233004031	175	1.35	< 10	< 1	0.27	18	0.66	0.100	0.041	0.35	< 2	1	45	0.02	< 1	< 2	< 10	17	< 10	2	9	0.19	0.34
V860693																							
1226009147	188	3.06	< 10	< 1	0.29	22	1.03	0.095	0.061	1.03	< 2	3	78	0.07	3	< 2	< 10	27	< 10	3	17	0.29	1.11
1226009216	256	3.52	< 10	< 1	0.77	41	1.61	0.098	0.122	0.89	< 2	5	141	0.14	< 1	< 2	< 10	60	< 10	5	17	0.55	0.97
1225006092	163	2.40	< 10	< 1	0.23	17	0.80	0.038	0.053	2.53	8	< 1	32	< 0.01	2	< 2	< 10	7	< 10	2	12	0.32	2.53

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Meas																							
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		42.5																					
NBM-1 (slight fzz) Cert		46.6																					
NBM-1 (slight fzz) Meas		42.5																					
NBM-1 (slight fzz) Cert		46.6																					
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2260	783	< 1	35	59	252	2.94	8		80	0.8	10	0.41	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2200	744	< 1	32	58	257	2.79	8		78	0.8	9	0.41	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2230	753	< 1	33	62	255	2.87	7		83	0.8	13	0.42	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								1.7	< 0.5	4260	852	< 1	31	76	322	2.81	7		63	0.7	19	0.40	20
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								2.8	< 0.5	4380	841	< 1	29	81	331	2.82	7		61	0.7	19	0.41	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.9	< 0.5	4520	859	< 1	34	84	326	2.92	6		68	0.7	23	0.42	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 621 (Aqua Regia) Meas								66.9	282	3500	527	13	25	> 5000	> 10000	1.76	82			0.6	7	1.67	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								68.6	280	3560	519	13	23	> 5000	> 10000	1.70	78			0.6	7	1.65	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								68.2	281	3570	525	13	24	> 5000	> 10000	1.70	77			0.6	6	1.66	29
Oreas 621 (Aqua								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Regia) Cert																							
OREAS 45f (Aqua Regia) Meas										363	167	< 1	219	9	27	7.26			132	1.0	2	0.07	37
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										374	172	1	232	10	27	7.37			138	1.0	5	0.07	37
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 238 (Fire Assay) Meas							3060																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3150																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3110																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3050																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3150																
OREAS 238 (Fire Assay) Cert							3030																
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
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GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
Oreas E1336 (Fire Assay) Meas							513																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							527																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							510																
Oreas E1336 (Fire Assay) Cert							510																

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Assay) Cert																							
Oreas E1336 (Fire Assay) Meas							520																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							521																
Oreas E1336 (Fire Assay) Cert							510																
1225003005 Orig								0.2	< 0.5	16	476	< 1	11	8	118	3.45	8	< 10	46	< 0.5	4	1.59	9
1225003005 Dup								0.2	< 0.5	17	489	< 1	12	7	123	3.46	7	< 10	47	< 0.5	4	1.60	11
1225003285 Orig							51																
1225003285 Dup							37																
1226009003 Orig																							
1226009003 Dup																							
1226009118 Orig							143	0.3	< 0.5	74	540	2	14	2	145	2.77	6	15	69	< 0.5	6	1.23	9
1226009118 Dup							101	0.3	< 0.5	77	553	2	14	4	150	2.88	5	16	69	< 0.5	5	1.28	9
1225003257 Orig																							
1225003257 Dup																							
1226027216 Orig							65																
1226027216 Dup							64																
1233004111 Orig								0.4	1.4	11	655	1	16	9	266	1.89	6	< 10	66	< 0.5	3	1.65	9
1233004111 Dup								0.4	1.2	11	655	2	16	10	274	1.88	5	< 10	65	< 0.5	< 2	1.66	8
1226027073 Orig																							
1226027073 Dup																							
1225003320 Orig							48																
1225003320 Dup							42																
1226008299 Orig								0.8	< 0.5	373	279	1	11	3	31	2.04	10	< 10	41	< 0.5	7	0.89	9
1226008299 Dup								1.0	< 0.5	363	283	1	11	4	31	2.04	9	< 10	39	< 0.5	9	0.90	9
1226026123 Orig	29.8	27.7	-2.10	45.3	0.610																		
1226026123 Dup	29.8	27.5	-2.22	45.3	0.608																		
1226026078 Orig							166																
1226026078 Dup							181																
1226026035 Orig							71																
1226026035 Dup							89																
1225003192 Orig								< 0.2	< 0.5	20	444	< 1	9	9	87	3.74	7	< 10	49	< 0.5	2	1.88	7
1225003192 Dup								0.2	< 0.5	21	456	< 1	9	8	89	3.86	8	< 10	52	< 0.5	4	1.92	7
1226018128 Orig																							
1226018128 Dup																							
1225004066 Orig								0.8	< 0.5	183	492	5	19	5	75	2.54	15	< 10	42	< 0.5	2	1.53	10
1225004066 Dup								0.9	< 0.5	186	499	5	20	4	80	2.59	14	< 10	41	< 0.5	2	1.56	9
1225005065 Orig							166																
1225005065 Dup							154																
1225007060 Orig																							
1225007060 Dup																							
1225007027 Orig							77	0.5	1.3	97	551	3	19	5	372	1.78	11	< 10	26	< 0.5	5	1.37	10
1225007027 Dup							87	0.5	1.4	95	556	3	18	6	371	1.80	9	< 10	26	< 0.5	5	1.38	10
1225007087 Orig							71																
1225007287 Orig	16.9	8.77	-8.10	21.1	0.415																		
1225007287 Dup	16.9	8.76	-8.11	21.1	0.414																		

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1225007243 Orig																							
1225007243 Dup																							
1434002023 Orig								0.4	< 0.5	169	903	< 1	75	< 2	83	5.29	4	< 10	44	< 0.5	3	5.29	30
1434002023 Dup								0.4	< 0.5	173	933	< 1	76	< 2	87	5.43	4	< 10	46	< 0.5	3	5.47	31
1225014210 Orig																							
1225014210 Dup																							
1225009155 Orig							659																
1225009155 Dup							690																
1225009138 Orig																							
1225009138 Dup																							
1225009090 Orig							164																
1225009090 Dup							163																
1233005028 Orig								0.2	< 0.5	21	431	3	19	2	83	1.09	6	< 10	51	< 0.5	< 2	1.38	9
1233005028 Dup								< 0.2	< 0.5	23	436	2	15	3	84	1.11	6	< 10	53	< 0.5	< 2	1.41	8
1225009104 Orig							81																
1225009104 Dup							79																
1225009199 Orig																							
1225009199 Dup																							
1226009216 Orig						9.08																	
1226009216 Dup						9.04																	
1225006092 Orig	67.2	18.5	-48.7	77.5	0.238			12.2	2.6	62	508	2	15	66	709	1.19	90	< 10	38	< 0.5	< 2	0.94	11
1225006092 Dup	67.2	18.5	-48.6	77.5	0.239			13.2	2.8	62	488	2	14	65	671	1.20	78	< 10	39	< 0.5	3	0.90	10
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank							< 5																

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
GXR-6 Meas	79	6.15	20	2	1.20	< 10	0.41	0.126	0.034	0.01	4	18	31		< 1	< 2	< 10	185	< 10	5	8			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
GXR-6 Meas	76	5.45	20	1	1.18	< 10	0.38	0.121	0.032	0.01	3	18	30		< 1	< 2	< 10	172	< 10	4	9			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
GXR-6 Meas	78	5.79	20	2	1.22	< 10	0.39	0.123	0.033	0.01	4	19	31		< 1	< 2	< 10	176	< 10	4	9			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
BaSO4 Meas																							13.9	
BaSO4 Cert																								14.0
BaSO4 Meas																								14.1
BaSO4 Cert																								14.0
BaSO4 Meas																								14.0
BaSO4 Cert																								14.0
BaSO4 Meas																								14.0
BaSO4 Cert																								14.0
BaSO4 Meas																								13.8
BaSO4 Cert																								14.0
BaSO4 Meas																								14.1
BaSO4 Cert																								14.0
BaSO4 Meas																								14.1
BaSO4 Cert																								14.0
SGR-1b Meas																							27.9	1.56
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.9	1.55
SGR-1b Cert																							28	1.53
SGR-1b Meas																							28.0	1.55
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.9	1.54
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.8	1.54
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.7	1.52
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.4	1.50
SGR-1b Cert																							28	1.53
GS311-4 Meas																							1.12	0.54
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.09	0.54
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.09	0.52
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.13	0.55
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.12	0.55
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.08	0.53
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.12	0.53
GS311-4 Cert																							1.11	0.54
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz)																								

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	44	5.32	< 10		0.50	39	1.36	0.035	0.061	0.37	2	4	18			< 2	< 10	39	< 10	22	17		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	45	4.88	< 10		0.51	38	1.28	0.033	0.060	0.35	2	4	17			< 2	< 10	37	< 10	19	33		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	45	5.26	< 10		0.52	39	1.32	0.035	0.062	0.36	3	4	18			< 2	< 10	38	< 10	19	33		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 923 (AQUA REGIA) Meas	40	5.83	< 10		0.41	35	1.39		0.056	0.64	3	4	15			< 2	< 10	36	< 10	19	27		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	40	5.72	< 10		0.43	35	1.37		0.057	0.65	< 2	4	15			< 2	< 10	36	< 10	17	33		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	41	6.12	< 10		0.45	36	1.41		0.059	0.67	2	4	16			< 2	< 10	37	< 10	18	35		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 621 (Aqua Regia) Meas	29	3.36	10	4	0.39	20	0.43	0.173	0.033	4.55	124	2	20			< 2	< 10	14	< 10	8	64		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	29	3.27	10	4	0.38	20	0.43	0.167	0.032	4.62	119	2	19			< 2	< 10	13	< 10	7	63		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	30	3.30	10	4	0.39	20	0.43	0.169	0.032	4.59	119	2	19			< 2	< 10	13	< 10	7	64		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 45f (Aqua Regia) Meas	338	14.2	20	< 1	0.12	10	0.18	0.051	0.021	0.02		26	15	0.13		< 2	< 10	212		4	20		
OREAS 45f (Aqua	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Regia) Cert																							
OREAS 45f (Aqua Regia) Meas	342	14.8	20	< 1	0.12	11	0.18	0.053	0.021	0.02		27	16	0.13		< 2	< 10	216		4	20		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
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OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.33
GS316-3 Cert																						0.0600	0.340
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
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Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
Assay) Meas																								
Oreas E1336 (Fire Assay) Cert																								
1225003005 Orig	125	2.35	10	< 1	0.15	19	0.98	0.140	0.049	0.48	< 2	1	141	0.02	< 1	< 2	< 10	17	< 10	3	3			
1225003005 Dup	125	2.39	10	< 1	0.15	19	0.99	0.141	0.050	0.49	< 2	1	140	0.02	< 1	< 2	< 10	17	< 10	3	3			
1225003285 Orig																								
1225003285 Dup																								
1226009003 Orig																							0.19	0.83
1226009003 Dup																							0.20	0.81
1226009118 Orig	214	2.82	< 10	< 1	0.32	13	1.16	0.153	0.036	0.79	< 2	1	76	0.05	1	< 2	< 10	17	< 10	2	13			
1226009118 Dup	219	2.94	< 10	1	0.32	13	1.21	0.157	0.038	0.82	< 2	1	79	0.05	2	< 2	< 10	18	< 10	2	13			
1225003257 Orig																							0.61	0.40
1225003257 Dup																							0.59	0.42
1226027216 Orig																								
1226027216 Dup																								
1233004111 Orig	225	2.22	< 10	< 1	0.32	15	0.86	0.115	0.043	0.37	< 2	2	57	0.08	< 1	< 2	< 10	25	< 10	3	14	0.40	0.36	
1233004111 Dup	221	2.21	< 10	< 1	0.32	16	0.85	0.112	0.043	0.36	< 2	2	57	0.08	< 1	< 2	< 10	25	< 10	3	14	0.39	0.36	
1226027073 Orig																							0.20	1.88
1226027073 Dup																							0.21	1.86
1225003320 Orig																								
1225003320 Dup																								
1226008299 Orig	154	3.97	< 10	< 1	0.27	12	0.88	0.068	0.036	2.20	< 2	< 1	56	0.03	< 1	< 2	< 10	11	< 10	3	20			
1226008299 Dup	160	4.03	< 10	< 1	0.26	12	0.89	0.068	0.036	2.25	< 2	< 1	55	0.03	3	< 2	< 10	11	< 10	3	20			
1226026123 Orig																								
1226026123 Dup																								
1226026078 Orig																							0.26	2.78
1226026078 Dup																							0.26	2.75
1226026035 Orig																								
1226026035 Dup																								
1225003192 Orig	102	1.95	10	< 1	0.20	17	0.93	0.182	0.045	0.35	< 2	1	158	0.01	< 1	< 2	< 10	14	< 10	3	5			
1225003192 Dup	107	2.01	10	< 1	0.21	17	0.96	0.187	0.045	0.36	< 2	1	161	0.01	< 1	< 2	< 10	15	< 10	3	7			
1226018128 Orig																							0.52	1.44
1226018128 Dup																							0.53	1.46
1225004066 Orig	358	2.99	< 10	< 1	0.29	14	0.71	0.264	0.040	2.05	< 2	1	130	0.04	1	< 2	< 10	18	< 10	3	17	0.32	1.99	
1225004066 Dup	362	3.02	< 10	< 1	0.30	14	0.73	0.270	0.041	2.03	2	1	131	0.04	1	< 2	< 10	19	< 10	3	17	0.30	1.98	
1225005065 Orig																								
1225005065 Dup																								
1225007060 Orig																							0.22	2.81
1225007060 Dup																							0.21	2.62
1225007027 Orig	252	3.09	< 10	< 1	0.20	16	1.04	0.141	0.043	2.90	< 2	1	50	< 0.01	< 1	< 2	< 10	14	< 10	3	22			
1225007027 Dup	255	3.07	< 10	< 1	0.21	16	1.04	0.143	0.043	2.87	< 2	1	51	< 0.01	< 1	< 2	< 10	14	< 10	3	22			
1225007087 Orig																								
1225007287 Orig																								
1225007287 Dup																								
1225007243 Orig																							0.30	0.69
1225007243 Dup																							0.32	0.68
1434002023 Orig	208	8.32	10	2	0.22	< 10	2.46	0.373	0.036	0.27	2	14	127	0.13	< 1	2	< 10	282	< 10	8	3			
1434002023 Dup	217	8.51	20	2	0.23	< 10	2.51	0.382	0.037	0.27	< 2	14	130	0.13	< 1	< 2	< 10	289	< 10	8	3			
1225014210 Orig																							0.20	1.35
1225014210 Dup																							0.19	1.40
1225009155 Orig																								

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1225009155 Dup																							
1225009138 Orig																							1.07
1225009138 Dup																							2.46
1225009090 Orig																							1.16
1225009090 Dup																							2.66
1233005028 Orig	265	1.95	< 10	< 1	0.29	14	0.72	0.055	0.041	0.37	< 2	1	25	0.06	< 1	< 2	< 10	19	< 10	2	12		
1233005028 Dup	271	1.97	< 10	< 1	0.30	14	0.74	0.056	0.042	0.37	< 2	1	26	0.06	1	< 2	< 10	20	< 10	2	12		
1225009104 Orig																							
1225009104 Dup																							
1225009199 Orig																							0.25
1225009199 Dup																							0.65
1226009216 Orig																							0.27
1226009216 Dup																							0.67
1225006092 Orig	162	2.45	< 10	< 1	0.23	17	0.81	0.038	0.053	2.59	8	< 1	32	< 0.01	3	< 2	< 10	7	< 10	2	13	0.33	2.40
1225006092 Dup	163	2.36	< 10	< 1	0.23	16	0.79	0.039	0.052	2.46	8	< 1	32	< 0.01	1	< 2	< 10	7	< 10	2	12	0.32	2.67
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank																							



Report No.: A20-10419
Report Date: 27-Oct-20
Date Submitted: 31-Aug-20
Your Reference: June-July 2020 Check Assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

126 Pulp samples were submitted for analysis.

Table with 3 columns: Analytical package(s) requested, Test Name, Testing Date. Includes rows for ABA Modified Sobek Package and 4F-C, S.

REPORT A20-10419

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

Footnote: Sample #75 F001008 was insufficient for any further analysis

CERTIFIED BY:
<original signed by>

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Emmanuel Esemé, Ph.D.
Quality Control Coordinator

Report No.: A20-10419
Report Date: 27-Oct-20
Date Submitted: 31-Aug-20
Your Reference: June-July 2020 Check Assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

126 Pulp samples were submitted for analysis.

Table with 3 columns: Analytical package(s) requested, Testing Date, and details. Rows include 1A2-50-Tbay, 1E3-Tbay NewGold, QOP AA-Au (Au - Fire Assay AA), and QOP AquaGeo (Aqua Regia ICPOES).

REPORT A20-10419

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

Footnote: Sample #75 F001008 was insufficient for any further analysis

CERTIFIED BY:

<original signed by>

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

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Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1324013137	49.6	10.6	-39.0	54.8	0.194	8.59	345	0.5	< 0.5	185	260	< 1	13	< 2	49	1.85	13	< 10	33	< 0.5	6	0.85	7
1231037046	30.1	43.2	13.1	35.8	1.21	8.53	63	1.9	1.2	35	1230	< 1	106	42	375	1.93	62	< 10	50	< 0.5	4	2.00	18
1231037001	17.7	52.9	35.2	22.4	2.37	8.89	32	1.2	< 0.5	46	786	3	16	9	66	0.94	40	< 10	32	< 0.5	< 2	2.20	6
1231037049	27.5	12.9	-14.6	33.4	0.386	8.79	88	20.6	0.9	43	1110	< 1	15	100	280	0.88	142	< 10	30	< 0.5	< 2	1.67	7
1324013117	32.2	6.48	-25.7	35.8	0.181	8.76	131	0.4	< 0.5	80	374	< 1	13	< 2	123	2.50	15	< 10	40	< 0.5	4	0.53	7
1231037224	16.3	7.69	-8.56	15.9	0.483	8.69	62	1.0	< 0.5	18	275	< 1	13	18	117	0.68	123	< 10	35	< 0.5	< 2	0.46	4
1231037007	52.8	27.2	-25.6	58.2	0.468	8.52	61	11.3	1.4	59	1020	< 1	19	192	369	1.03	92	< 10	28	< 0.5	< 2	1.44	8
1231037110	33.8	19.4	-14.4	38.9	0.499	8.64	71	1.7	< 0.5	19	544	< 1	20	21	150	1.97	31	< 10	34	< 0.5	< 2	1.56	9
1231037075	11.7	26.2	14.5	16.2	1.61	9.08	18	0.4	< 0.5	10	640	< 1	21	7	150	2.21	7	< 10	62	< 0.5	< 2	1.72	7
1231037247	43.9	18.1	-25.9	52.1	0.347	8.43	348	4.9	10.2	68	1030	< 1	16	1560	2270	0.99	67	< 10	27	< 0.5	< 2	0.82	7
1324013211	25.0	27.5	2.46	28.8	0.954	8.90	64	0.2	< 0.5	34	414	2	13	5	65	1.57	4	< 10	107	< 0.5	2	1.46	6
1231037312	9.27	4.72	-4.55	12.3	0.385	8.47	90	2.6	< 0.5	23	439	< 1	10	15	100	1.22	11	< 10	38	< 0.5	< 2	0.31	7
1324013165	40.6	8.10	-32.5	45.3	0.179	8.56	525	0.5	< 0.5	279	268	< 1	14	< 2	45	1.97	13	< 10	31	< 0.5	3	0.69	6
GC20-0200-009							452	1.4	< 0.5	267	200	5	20	8	116	2.04	66	< 10	20	< 0.5	4	0.36	18
1324013202	59.1	8.86	-50.2	63.1	0.140	8.32	40	0.3	< 0.5	31	200	< 1	19	5	56	2.03	13	< 10	27	< 0.5	7	0.96	6
GC20-0208-002							48	< 0.2	< 0.5	33	467	< 1	11	4	86	1.19	7	< 10	82	< 0.5	< 2	1.56	5
GC20-0198-013							1090	17.0	24.3	118	520	7	26	7	5660	2.78	48	< 10	19	< 0.5	14	0.74	18
F001002							3380	2.4	< 0.5	35	234	15	12	13	40	1.34	< 2	< 10	48	< 0.5	< 2	0.87	6
1231036017	84.2	10.7	-73.4	91.6	0.117	8.23	327	11.8	1.4	33	703	3	25	79	709	0.64	77	< 10	19	< 0.5	3	0.46	17
GC20-0001-018							44	0.9	< 0.5	28	2010	< 1	13	< 2	111	3.25	3	< 10	90	1.2	< 2	5.47	27
1324001134	32.1	5.44	-26.6	35.5	0.153	8.67	37	0.5	< 0.5	28	386	< 1	8	7	70	2.62	13	< 10	32	< 0.5	< 2	1.20	6
F000712							3400	2.4	< 0.5	35	232	14	12	12	39	1.32	3	< 10	50	< 0.5	< 2	0.87	7
1231034426	48.0	33.7	-14.4	54.5	0.617	8.81	712	4.3	2.9	64	954	< 1	10	659	873	0.55	72	< 10	32	< 0.5	< 2	1.50	6
1231034259	34.8	35.5	0.752	38.9	0.914	8.74	152	0.6	1.9	36	761	< 1	8	77	626	1.29	29	< 10	31	< 0.5	< 2	1.54	6
1231034349	32.1	34.7	2.64	36.1	0.961	8.73	439	0.7	0.7	25	835	< 1	9	55	271	1.67	29	< 10	36	< 0.5	< 2	1.78	6
1324001351	60.8	23.7	-37.2	66.5	0.356	8.70	465	4.9	1.0	23	731	< 1	14	53	260	1.99	35	< 10	24	< 0.5	3	1.69	7
GC-20-0056-020							244	1.0	1.2	29	490	< 1	13	< 2	363	2.42	12	< 10	35	< 0.5	5	0.67	8
F000740							130	1.6	< 0.5	57	343	4	13	8	65	1.66	< 2	< 10	87	< 0.5	< 2	1.20	12

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1324013117	216	2.32	< 10	< 1	0.24	14	2.01	0.107	0.032	1.15	3	< 1	42	< 0.01	< 1	< 2	< 10	9	< 10	2	19	0.10	1.17
1231037224	209	0.70	< 10	< 1	0.27	19	0.07	0.038	0.044	0.53	< 2	< 1	14	0.04	< 1	< 2	< 10	4	< 10	2	6	0.19	0.52
1231037007	306	2.05	< 10	< 1	0.43	15	0.25	0.024	0.041	2.02	3	< 1	33	0.06	< 1	3	< 10	7	< 10	2	20	0.43	1.90
1231037110	320	2.08	< 10	< 1	0.29	16	0.53	0.205	0.042	1.31	< 2	1	83	0.03	< 1	< 2	< 10	13	< 10	3	5	0.49	1.27
1231037075	303	1.98	< 10	< 1	0.32	17	0.76	0.190	0.042	0.53	< 2	1	88	0.06	< 1	2	< 10	17	< 10	3	4	0.46	0.53
1231037247	293	1.94	< 10	< 1	0.24	14	0.51	0.034	0.035	1.65	4	< 1	16	0.01	1	< 2	< 10	9	< 10	2	12	0.29	1.70
1324013211	270	2.06	< 10	< 1	0.23	37	0.64	0.095	0.062	0.96	< 2	< 1	93	< 0.01	1	< 2	< 10	10	< 10	3	6	0.47	0.94
1231037312	108	1.13	< 10	< 1	0.21	< 10	0.38	0.035	0.031	0.38	< 2	< 1	25	0.01	< 1	< 2	< 10	5	< 10	< 1	5	0.14	0.40
1324013165	283	2.30	< 10	< 1	0.15	15	1.01	0.127	0.039	1.54	< 2	1	68	0.01	2	< 2	< 10	12	< 10	2	12	0.24	1.48
GC20-0200-009	179	4.17	< 10	< 1	0.27	12	1.35	0.059	0.040	3.12	3	2	40	0.01	5	< 2	< 10	17	< 10	4	25		
1324013202	412	2.35	< 10	< 1	0.20	16	0.84	0.249	0.037	2.05	< 2	< 1	95	< 0.01	3	< 2	< 10	8	< 10	2	16	0.28	2.06
GC20-0208-002	211	1.98	< 10	< 1	0.33	56	0.54	0.074	0.068	0.76	< 2	< 1	83	< 0.01	< 1	< 2	< 10	9	< 10	5	4		
GC20-0198-013	179	4.89	< 10	< 1	0.21	11	2.39	0.028	0.045	3.42	< 2	3	18	0.11	15	< 2	< 10	35	< 10	4	28		
F001002	13	1.91	< 10	< 1	0.25	13	0.50	0.216	0.044	0.05	< 2	3	29	0.27	6	< 2	< 10	57	< 10	16	18		
1231036017	151	2.89	< 10	< 1	0.22	14	0.30	0.027	0.038	2.90	4	< 1	21	0.01	< 1	< 2	< 10	7	< 10	2	11	0.22	2.99
GC20-0001-018	22	6.79	10	< 1	0.90	166	2.77	0.068	0.423	0.43	< 2	14	541	0.09	< 1	< 2	< 10	144	< 10	23	4		
1324001134	122	1.92	< 10	< 1	0.17	15	0.61	0.158	0.040	1.14	< 2	< 1	115	< 0.01	1	3	< 10	8	< 10	2	7	0.22	1.16
F000712	13	1.90	< 10	< 1	0.25	12	0.50	0.218	0.045	0.05	< 2	3	30	0.27	1	< 2	< 10	57	< 10	15	15		
1231034426	106	1.89	< 10	< 1	0.25	13	0.43	0.025	0.040	1.73	4	< 1	91	0.02	< 1	< 2	< 10	9	< 10	2	10	0.70	1.78
1231034259	85	1.70	< 10	< 1	0.25	16	0.68	0.053	0.039	1.26	< 2	< 1	22	< 0.01	< 1	< 2	< 10	6	< 10	1	8	0.50	1.27
1231034349	102	1.85	< 10	< 1	0.28	15	0.78	0.073	0.040	1.19	< 2	< 1	32	0.03	< 1	< 2	< 10	8	< 10	2	10	0.49	1.18
1324001351	153	2.18	< 10	< 1	0.23	15	0.81	0.133	0.040	2.15	< 2	< 1	50	0.01	5	< 2	< 10	6	< 10	2	11	0.45	2.17
GC-20-0056-020	93	2.17	< 10	< 1	0.20	12	0.93	0.192	0.033	1.21	< 2	< 1	68	< 0.01	< 1	< 2	< 10	9	< 10	2	13		
F000740	12	3.24	< 10	< 1	0.21	10	0.55	0.289	0.055	0.06	< 2	4	38	0.48	4	< 2	< 10	94	< 10	15	10		

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
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GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
NBM-1 (slight fzz) Meas		41.8				5.68																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		41.8				8.25																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		42.1																					
NBM-1 (slight fzz) Cert		46.6																					
NBM-1 (slight fzz) Meas		42.1																					
NBM-1 (slight fzz) Cert		46.6																					
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2080	722	< 1	36	55	240	2.72	5		75	0.7	8	0.39	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2170	772	< 1	36	58	246	3.01	6		85	0.7	15	0.41	20
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2120	720	< 1	32	59	249	2.77	6		85	0.7	9	0.39	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								1.7	< 0.5	4310	853	< 1	32	77	311	2.97	7		68	0.7	18	0.40	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA)								1.7	1.0	4330	856	< 1	33	82	331	2.90	6		73	0.7	15	0.41	22

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Meas																							
OREAS 923 (Aqua Regia) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 96 (Aqua Regia) Meas								10.1		> 10000				84	401						42		44
Oreas 96 (Aqua Regia) Cert								11.50		39100. 00				100	448						27.9		49.2
Oreas 96 (Aqua Regia) Meas								10.1		> 10000				77	382						34		45
Oreas 96 (Aqua Regia) Cert								11.50		39100. 00				100	448						27.9		49.2
Oreas 96 (Aqua Regia) Meas								10.3		> 10000				89	419						< 2		44
Oreas 96 (Aqua Regia) Cert								11.50		39100. 00				100	448						27.9		49.2
Oreas 621 (Aqua Regia) Meas								61.9	284	3330	532	13	18	> 5000	> 10000	1.82	71			0.5	5	1.63	28
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								62.8	272	3380	507	12	23	> 5000	> 10000	1.67	70			0.5	4	1.56	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								63.7	279	3490	525	12	23	> 5000	> 10000	1.77	72			0.5	4	1.61	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								64.6	279	3480	500	12	25	> 5000	> 10000	1.79	75			0.6	< 2	1.61	27
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 45f (Aqua Regia) Meas										328	161	< 1	230	8	24	7.02			127	0.9	6	0.06	38
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 238 (Fire Assay) Meas								3160															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3110															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3100															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3140															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3110															
OREAS 238 (Fire Assay) Cert								3030															

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS316-3 Meas																							
GS316-3 Cert																							
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GS316-3 Cert																							
Oreas E1336 (Fire Assay) Meas							526																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							517																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							530																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							518																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							517																
Oreas E1336 (Fire Assay) Cert							510																
GC20-0143-011 Orig							736																
GC20-0143-011 Dup							639																
1324016208 Orig								0.9	< 0.5	27	376	< 1	17	< 2	175	2.50	11	< 10	31	< 0.5	8	1.32	8
1324016208 Dup								0.9	< 0.5	26	377	< 1	17	< 2	172	2.52	10	< 10	29	< 0.5	10	1.33	8
1231040615 Orig																							
1231040615 Dup																							
1324007384 Orig							891																
1324007384 Dup							933																
GC20-0170-001 Orig							158																
GC20-0170-001 Dup							188																
1231040521 Orig								1.9	< 0.5	27	797	< 1	14	14	73	1.51	40	< 10	38	< 0.5	< 2	1.79	7
1231040521 Dup								2.1	< 0.5	28	834	< 1	14	14	77	1.61	41	< 10	39	< 0.5	< 2	1.88	8

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1324016372 Orig																							
1324016372 Dup																							
1231038047 Orig								0.4	< 0.5	28	438	< 1	13	3	70	1.31	10	< 10	73	< 0.5	< 2	1.57	6
1231038047 Dup								0.4	< 0.5	27	422	< 1	12	4	67	1.26	11	< 10	68	< 0.5	< 2	1.51	6
1324016365 Orig							359																
1324016365 Dup							354																
1324016293 Orig																							
1324016293 Dup																							
1231038027 Orig						8.77																	
1231038027 Dup						8.79																	
1231038150 Orig							51	1.5	< 0.5	20	1160	< 1	25	23	98	2.34	52	< 10	31	< 0.5	3	1.20	10
1231038150 Dup							53	1.6	< 0.5	20	1160	< 1	25	23	96	2.32	49	< 10	32	< 0.5	3	1.20	10
1324016224 Orig							129																
1324016224 Dup							123																
1231037150 Orig																							
1231037150 Dup																							
1231040501 Orig								1.6	< 0.5	21	544	2	12	9	50	1.00	41	< 10	33	< 0.5	< 2	1.87	5
1231040501 Dup								1.7	< 0.5	22	566	< 1	14	9	54	1.04	48	< 10	34	< 0.5	< 2	1.94	6
1231040527 Orig	32.5	41.9	9.43	36.8	1.14		70																
1231040527 Dup	32.5	42.9	10.4	36.8	1.17		47																
1231037205 Orig																							
1231037205 Dup																							
GC20-0186-002 Orig							39																
GC20-0186-002 Dup							37																
GC20-0196-003 Orig								0.3	< 0.5	48	340	2	14	< 2	42	3.30	8	< 10	38	< 0.5	9	1.19	8
GC20-0196-003 Dup								0.3	< 0.5	48	344	2	15	< 2	42	3.35	5	< 10	36	< 0.5	8	1.22	10
GC20-0194-001 Orig							72																
GC20-0194-001 Dup							86																
1231037224 Orig								0.9	< 0.5	19	282	1	13	19	117	0.72	130	< 10	37	< 0.5	< 2	0.47	4
1231037224 Dup								1.0	< 0.5	18	267	< 1	12	18	117	0.64	116	< 10	33	< 0.5	< 2	0.44	4
1231037007 Orig																							
1231037007 Dup																							
1324013202 Orig						8.34																	
1324013202 Dup						8.31																	
GC20-0208-002 Orig							48																
GC20-0208-002 Dup							47																
GC20-0001-018 Orig								1.5	0.6	27	1990	< 1	13	< 2	111	3.22	4	< 10	95	1.2	< 2	5.41	28
GC20-0001-018 Dup								0.2	< 0.5	28	2030	< 1	14	2	112	3.28	2	< 10	86	1.2	< 2	5.53	26
1231034259 Orig																							
1231034259 Dup																							
1324001351 Orig							467																

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1324001351 Dup							463																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank							< 5																

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
GXR-6 Meas	74	6.14	10	1	1.07	< 10	0.37	0.146	0.035	0.01	4	18	31		< 1	3	< 10	159	< 10	4	9			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
GXR-6 Meas	70	5.15	10	2	0.98	< 10	0.35	0.142	0.031	0.01	3	17	29		< 1	< 2	< 10	151	< 10	4	12			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
GXR-6 Meas	73	5.59	10	< 1	1.08	< 10	0.37	0.150	0.033	0.01	4	18	31		< 1	< 2	< 10	160	< 10	4	12			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
GXR-6 Meas	72	5.24	10	< 1	1.05	< 10	0.38	0.133	0.032	0.01	3	20	28		< 1	2	< 10	155	< 10	5	12			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
BaSO4 Meas																							13.9	
BaSO4 Cert																							14.0	
BaSO4 Meas																							14.2	
BaSO4 Cert																							14.0	
BaSO4 Meas																							14.2	
BaSO4 Cert																							14.0	
BaSO4 Meas																							14.0	
BaSO4 Cert																							14.0	
BaSO4 Meas																							14.0	
BaSO4 Cert																							14.1	
BaSO4 Meas																							14.0	
BaSO4 Cert																							13.8	
BaSO4 Meas																							14.0	
BaSO4 Cert																							14.0	
BaSO4 Meas																							13.8	
BaSO4 Cert																							14.0	
BaSO4 Meas																							13.8	
BaSO4 Cert																							14.0	
SGR-1b Meas																							27.4	1.49
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.8	1.68
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.7	1.60
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.4	1.58
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.5	1.59
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.1	1.56
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.7	1.60
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.6	1.63
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.7	1.60
SGR-1b Cert																							28	1.53
GS311-4 Meas																							1.11	0.49
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.11	0.56
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.12	0.54
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.11	0.54

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
GS311-4 Cert																						1.11	0.54	
GS311-4 Meas																							1.12	0.55
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.11	0.54
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.12	0.55
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.12	0.57
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.10	0.57
GS311-4 Cert																							1.11	0.54
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
NBM-1 (slight fzz) Meas																								
OREAS 922 (AQUA REGIA) Meas	43	4.73	< 10		0.44	35	1.20	0.033	0.058	0.31	2	3	15			< 2	< 10	32	< 10	19	24			
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3			
OREAS 922 (AQUA REGIA) Meas	43	5.19	< 10		0.48	38	1.25	0.036	0.063	0.36	3	4	16			< 2	< 10	35	< 10	20	25			
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3			
OREAS 922 (AQUA REGIA) Meas	42	4.95	< 10		0.47	37	1.28	0.036	0.058	0.36	3	4	15			< 2	< 10	33	< 10	18	21			
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3			
OREAS 923 (AQUA REGIA) Meas	39	5.85	< 10		0.40	34	1.30		0.058	0.65	2	4	14			< 2	< 10	33	< 10	18	29			
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5			
OREAS 923 (AQUA REGIA) Meas	39	5.86	< 10		0.42	36	1.44		0.058	0.69	3	4	14			< 2	< 10	34	< 10	18	25			
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5			
Oreas 96 (Aqua										3.55	7													

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Regia) Meas																							
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										3.75	7												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										3.66	6												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 621 (Aqua Regia) Meas	15	3.37	< 10	3	0.32	19	0.39	0.171	0.033	4.64	98	2	19		< 2	< 10	11	< 10	7	58			
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9		0.770	1.63	10.9	1.00	6.87	55.0			
Oreas 621 (Aqua Regia) Meas	26	3.08	< 10	3	0.32	19	0.39	0.172	0.031	4.23	107	2	19		< 2	< 10	11	< 10	7	59			
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9		0.770	1.63	10.9	1.00	6.87	55.0			
Oreas 621 (Aqua Regia) Meas	24	3.29	< 10	5	0.33	20	0.40	0.178	0.033	4.50	99	2	20		< 2	< 10	11	< 10	7	58			
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9		0.770	1.63	10.9	1.00	6.87	55.0			
Oreas 621 (Aqua Regia) Meas	29	3.28	< 10	3	0.36	20	0.43	0.188	0.031	4.53	118	2	19		< 2	< 10	12	< 10	7	61			
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9		0.770	1.63	10.9	1.00	6.87	55.0			
OREAS 45f (Aqua Regia) Meas	315	13.1	20	< 1	0.10	< 10	0.16	0.050	0.020	0.02		24	13	0.11		< 2	< 10	190		4	26		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.31
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.34
GS316-3 Cert																						0.0600	0.340

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
GC20-0143-011 Orig																							
GC20-0143-011 Dup																							
1324016208 Orig	252	2.47	< 10	< 1	0.18	11	1.04	0.209	0.033	1.90	< 2	1	77	< 0.01	6	< 2	< 10	12	< 10	2	20		
1324016208 Dup	256	2.47	< 10	< 1	0.18	11	1.04	0.214	0.034	1.87	< 2	1	78	< 0.01	8	< 2	< 10	12	< 10	2	18		
1231040615 Orig																						0.11	1.84
1231040615 Dup																						0.09	1.82
1324007384 Orig																							
1324007384 Dup																							
GC20-0170-001 Orig																							
GC20-0170-001 Dup																							
1231040521 Orig	206	1.56	< 10	< 1	0.27	16	0.35	0.164	0.042	1.29	< 2	< 1	72	0.03	< 1	< 2	< 10	8	< 10	2	10		
1231040521 Dup	209	1.63	< 10	2	0.29	18	0.37	0.173	0.044	1.34	< 2	< 1	76	0.03	< 1	< 2	< 10	8	< 10	2	10		
1324016372 Orig																						1.04	3.81
1324016372 Dup																						1.05	3.82
1231038047 Orig	245	1.79	< 10	< 1	0.33	14	0.63	0.091	0.038	0.48	< 2	2	31	0.08	1	< 2	< 10	18	< 10	2	12		
1231038047 Dup	241	1.72	< 10	< 1	0.31	13	0.61	0.084	0.037	0.46	< 2	1	29	0.07	< 1	< 2	< 10	17	< 10	2	12		
1324016365 Orig																							
1324016365 Dup																							
1324016293 Orig																						0.14	1.56
1324016293 Dup																						0.15	1.59
1231038027 Orig																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1231038027 Dup																							
1231038150 Orig	229	2.54	< 10	< 1	0.42	16	1.68	0.127	0.039	1.83	2	2	30	0.03	< 1	2	< 10	22	< 10	2	10		
1231038150 Dup	230	2.54	< 10	< 1	0.41	16	1.68	0.129	0.039	1.83	2	2	31	0.03	< 1	4	< 10	22	< 10	2	10		
1324016224 Orig																							
1324016224 Dup																							
1231037150 Orig																						0.47	0.33
1231037150 Dup																						0.47	0.36
1231040501 Orig	218	1.04	< 10	< 1	0.30	18	0.20	0.083	0.037	0.84	< 2	< 1	36	0.05	2	< 2	< 10	6	< 10	2	10		
1231040501 Dup	225	1.08	< 10	< 1	0.31	19	0.21	0.086	0.038	0.85	< 2	< 1	37	0.06	< 1	< 2	< 10	6	< 10	2	9		
1231040527 Orig																							
1231040527 Dup																							
1231037205 Orig																						0.10	0.35
1231037205 Dup																						0.10	0.35
GC20-0186-002 Orig																							
GC20-0186-002 Dup																							
GC20-0196-003 Orig	195	3.46	< 10	< 1	0.16	12	1.23	0.236	0.033	1.40	2	1	146	0.01	1	< 2	< 10	13	< 10	2	15		
GC20-0196-003 Dup	201	3.52	< 10	< 1	0.17	12	1.25	0.239	0.034	1.43	< 2	1	147	0.01	1	< 2	< 10	14	< 10	2	15		
GC20-0194-001 Orig																							
GC20-0194-001 Dup																							
1231037224 Orig	214	0.73	< 10	< 1	0.28	19	0.07	0.041	0.045	0.55	2	< 1	14	0.04	< 1	< 2	< 10	4	< 10	2	6		
1231037224 Dup	204	0.68	< 10	< 1	0.26	19	0.07	0.036	0.043	0.51	< 2	< 1	13	0.04	< 1	< 2	< 10	4	< 10	1	7		
1231037007 Orig																						0.43	1.92
1231037007 Dup																						0.43	1.88
1324013202 Orig																							
1324013202 Dup																							
GC20-0208-002 Orig																							
GC20-0208-002 Dup																							
GC20-0001-018 Orig	21	6.68	10	< 1	0.90	164	2.75	0.068	0.423	0.44	2	14	539	0.09	2	< 2	< 10	144	< 10	23	4		
GC20-0001-018 Dup	22	6.90	10	< 1	0.91	168	2.78	0.068	0.422	0.43	< 2	14	543	0.08	< 1	< 2	< 10	145	< 10	24	4		
1231034259 Orig																						0.50	1.28
1231034259 Dup																						0.51	1.27
1324001351 Orig																							
1324001351 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1			
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	3	< 10	< 1	< 10	< 1	< 1			
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	2	< 10	< 1	< 10	< 1	< 1			
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1			
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1			
Method Blank																								



Report No.: A20-10421
 Report Date: 27-Oct-20
 Date Submitted: 31-Aug-20
 Your Reference: June-July 2020 Check Assays

New Gold Inc.
 1800-Two Bentall Centre
 555 Burrard Street, Box 212
 Vancouver BC V7X 1M9
 Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

141 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek Package	Acid Base Accounting	2020-10-13 21:17:54
4F-C, S	Infrared	2020-09-30 21:24:05

REPORT A20-10421

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:
 <original signed by>

Emmanuel Esemé, Ph.D.
 Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
 41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
 TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613
 E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Report No.: A20-10421
Report Date: 27-Oct-20
Date Submitted: 31-Aug-20
Your Reference: June-July 2020 Check Assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

141 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2020-09-23 07:40:52
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2020-09-23 14:55:49

REPORT A20-10421

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

<original signed by>



Emmanuel Esemé, Ph.D.
Quality Control Coordinator

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TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas								0.3	< 0.5	63	947	1	20	85	113	6.50	217	< 10	790	0.9	< 2	0.15	14
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.3	< 0.5	68	1020	1	21	91	121	6.89	241	< 10	747	0.9	< 2	0.14	14
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								< 0.2	< 0.5	70	1050	4	21	94	123	6.86	247	< 10	661	0.8	2	0.11	15
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.3	< 0.5	73	1080	3	23	98	123	7.06	229	< 10	688	0.8	< 2	0.11	15
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
BaSO4 Meas																							
BaSO4 Cert																							
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SGR-1b Meas																							
SGR-1b Cert																							
GS311-4 Meas																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS311-4 Cert																							
GS311-4 Meas																							
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GS311-4 Cert																							
GS311-4 Meas																							
NBM-1 (slight fzz) Meas		41.8				5.68																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		41.8				8.25																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		42.1																					
NBM-1 (slight fzz) Cert		46.6																					
NBM-1 (slight fzz) Meas		42.1																					
NBM-1 (slight fzz) Cert		46.6																					
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2180	726	< 1	30	52	236	2.78	4		85	0.8	6	0.41	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2240	762	< 1	33	56	251	2.89	8		87	0.8	7	0.43	20
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.7	< 0.5	2170	775	2	34	58	248	2.84	6		79	0.7	4	0.38	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922								0.8	< 0.5	2310	782	< 1	34	57	254	2.89	6		78	0.8	7	0.39	20

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
(AQUA REGIA) Meas																							
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								2.1	< 0.5	4240	811	< 1	27	74	306	2.74	6		67	0.7	21	0.40	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.5	< 0.5	4450	860	< 1	29	78	314	2.84	6		69	0.7	18	0.42	23
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								2.1	< 0.5	4250	854	3	31	78	321	2.84	6		63	0.7	12	0.39	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.7	< 0.5	4420	901	< 1	32	77	331	2.95	9		64	0.7	8	0.39	24
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 96 (Aqua Regia) Meas								10.5		> 10000				87	402						< 2		47
Oreas 96 (Aqua Regia) Cert								11.50		39100. 00				100	448						27.9		49.2
Oreas 96 (Aqua Regia) Meas								11.0		> 10000				88	416						< 2		49
Oreas 96 (Aqua Regia) Cert								11.50		39100. 00				100	448						27.9		49.2
Oreas 621 (Aqua Regia) Meas								64.0	263	3450	487	12	23	> 5000	> 10000	1.65	73			0.6	4	1.57	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								65.8	267	3540	509	12	23	> 5000	> 10000	1.74	74			0.6	4	1.62	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								65.5	289	3460	539	11	25	> 5000	> 10000	1.75	73			0.6	< 2	1.60	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 45f (Aqua Regia) Meas										296	161	1	198	9	28	7.09			139	1.0	< 2	0.07	37
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										315	175	< 1	211	9	28	7.56			147	1.0	< 2	0.08	39
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
OREAS 238 (Fire Assay) Meas							3060																	
OREAS 238 (Fire Assay) Cert							3030																	
OREAS 238 (Fire Assay) Meas							3080																	
OREAS 238 (Fire Assay) Cert							3030																	
OREAS 238 (Fire Assay) Meas							3060																	
OREAS 238 (Fire Assay) Cert							3030																	
OREAS 238 (Fire Assay) Meas							2960																	
OREAS 238 (Fire Assay) Cert							3030																	
OREAS 238 (Fire Assay) Meas							2970																	
OREAS 238 (Fire Assay) Cert							3030																	
OREAS 238 (Fire Assay) Meas							3130																	
OREAS 238 (Fire Assay) Cert							3030																	
GS316-3 Meas																								
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Oreas E1336 (Fire Assay) Meas							509																	
Oreas E1336 (Fire Assay) Cert							510																	
Oreas E1336 (Fire Assay) Meas							498																	
Oreas E1336 (Fire Assay) Cert							510																	
Oreas E1336 (Fire Assay) Meas							496																	
Oreas E1336 (Fire Assay) Cert							510																	

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Assay) Cert																							
Oreas E1336 (Fire Assay) Meas							493																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							502																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							510																
Oreas E1336 (Fire Assay) Cert							510																
GC20-0078-009FD Orig							34																
GC20-0078-009FD Dup							36																
1324099013 Orig							12																
1324099013 Dup							15																
GC20-0116-009 Orig								0.3	< 0.5	36	219	< 1	14	< 2	24	3.74	8	< 10	20	< 0.5	5	1.49	8
GC20-0116-009 Dup								0.3	< 0.5	39	223	< 1	15	2	24	3.85	7	< 10	20	< 0.5	4	1.50	8
1231039144 Orig																							
1231039144 Dup																							
1231039078 Orig							20																
1231039078 Dup							18																
1231039047 Orig	55.0	3.23	-51.8	65.8	0.0491		408																
1231039047 Dup	55.0	3.23	-51.7	65.8	0.0491		357																
1324016097 Orig																							
1324016097 Dup																							
GC20-0130-001 Orig								0.4	< 0.5	103	321	< 1	10	< 2	68	2.01	14	< 10	31	< 0.5	< 2	0.58	8
GC20-0130-001 Dup								0.4	< 0.5	103	329	< 1	10	< 2	68	2.06	13	< 10	29	< 0.5	< 2	0.60	9
1324010087 Orig								0.6	4.0	56	492	< 1	14	2	1010	1.88	11	< 10	38	< 0.5	< 2	0.49	9
1324010087 Dup								0.7	3.8	59	488	< 1	14	< 2	973	1.84	11	< 10	39	< 0.5	2	0.49	8
1324016061 Orig						8.78																	
1324016061 Dup						8.79																	
1324016096 Orig																							
1324016096 Dup																							
1231036071 Orig							52																
1231036071 Dup							52																
1324010157 Orig							148	1.1	< 0.5	269	297	< 1	15	< 2	83	1.96	9	< 10	33	< 0.5	11	0.52	8
1324010157 Dup							161	1.1	< 0.5	274	297	< 1	15	< 2	87	1.97	7	< 10	36	< 0.5	11	0.52	9
1231036097 Orig																							
1231036097 Dup																							
1231036001 Orig							8																
1231036001 Dup							6																
1231038065 Orig																							
1231038065 Dup																							
1231038126 Orig								< 0.2	< 0.5	12	299	< 1	17	< 2	52	1.06	3	< 10	83	< 0.5	< 2	1.18	8

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1231038126 Dup								< 0.2	< 0.5	11	299	< 1	17	2	53	1.06	< 2	< 10	85	< 0.5	< 2	1.19	8
1324010232 Orig								260															
1324010232 Dup								249															
1231039189 Orig								7.2	21.2	101	1120	< 1	22	458	4480	1.60	204	< 10	16	< 0.5	5	0.14	11
1231039189 Dup								5.5	21.6	98	1130	< 1	20	463	4530	1.61	210	< 10	16	< 0.5	< 2	0.15	11
1231039061 Orig																							
1231039061 Dup																							
1231039152 Orig						4.70	742																
1231039152 Dup						4.70	830																
1231039194 Orig	121	2.81	-118	133	0.0211																		
1231039194 Dup	121	2.75	-118	133	0.0207																		
1231039248 Orig								4.3	8.6	151	819	< 1	19	235	1910	1.32	203	< 10	20	< 0.5	4	0.49	10
1231039248 Dup								4.4	8.6	149	800	< 1	19	236	1870	1.30	197	< 10	21	< 0.5	< 2	0.48	10
1324006013 Orig																							
1324006013 Dup																							
GC20-0099-013 Orig								1.6	< 0.5	756	236	< 1	8	< 2	33	1.99	8	< 10	20	< 0.5	14	0.64	6
GC20-0099-013 Dup								1.6	< 0.5	758	228	< 1	6	< 2	32	1.92	9	< 10	37	< 0.5	15	0.61	6
1324010240 Orig								66															
1324010240 Dup								94															
F001005 Orig								1.6	< 0.5	63	228	12	8	19	44	1.26	< 2	< 10	45	< 0.5	< 2	0.83	7
F001005 Dup								1.6	< 0.5	47	230	17	11	18	40	1.27	< 2	< 10	45	< 0.5	< 2	0.83	7
1324007094 Orig						8.87																	
1324007094 Dup						8.87																	
1324016240 Orig	55.9	10.7	-45.2	66.2	0.162																		
1324016240 Dup	55.9	10.9	-45.0	66.2	0.164																		
Method Blank								< 5															
Method Blank								< 5															
Method Blank								< 5															
Method Blank								< 5															
Method Blank								< 5															
Method Blank								< 5															
Method Blank								< 5															
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 5															
Method Blank								< 5															

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
GS311-4 Cert																						1.11	0.54	
GS311-4 Meas																							1.11	0.56
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.12	0.54
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.11	0.54
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.12	0.55
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.11	0.54
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.12	0.55
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.12	0.57
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.10	0.57
GS311-4 Cert																							1.11	0.54
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
OREAS 922 (AQUA REGIA) Meas	44	5.01	< 10		0.51	34	1.28	0.032	0.059	0.33	< 2	4	16			< 2	< 10	36	< 10	21	21			
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3			
OREAS 922 (AQUA REGIA) Meas	45	5.14	< 10		0.52	36	1.31	0.030	0.060	0.36	3	4	16			< 2	< 10	36	< 10	21	16			
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3			
OREAS 922 (AQUA REGIA) Meas	45	5.05	< 10		0.48	36	1.28	0.028	0.060	0.37	2	4	16			< 2	< 10	34	< 10	15	15			
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3			
OREAS 922 (AQUA REGIA) Meas	45	5.28	< 10		0.48	38	1.34	0.032	0.062	0.39	< 2	4	16			< 2	< 10	34	< 10	16	17			
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3			

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
OREAS 923 (AQUA REGIA) Meas	40	5.79	< 10		0.42	30	1.37		0.056	0.61	2	4	14			< 2	< 10	34	< 10	19	24		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	41	5.94	< 10		0.44	32	1.41		0.057	0.66	3	4	14			< 2	< 10	35	< 10	19	24		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	40	5.75	< 10		0.41	33	1.38		0.058	0.68	4	4	14			< 2	< 10	33	< 10	14	24		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	42	5.96	< 10		0.42	35	1.44		0.060	0.71	< 2	4	15			< 2	< 10	34	< 10	15	29		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 96 (Aqua Regia) Meas										4.12	7												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										4.16	8												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 621 (Aqua Regia) Meas	30	3.24	< 10	4	0.35	18	0.41	0.186	0.031	4.22	106	2	19			< 2	< 10	12	< 10	7	63		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	32	3.35	< 10	4	0.38	18	0.42	0.194	0.032	4.24	105	2	19			< 2	< 10	13	< 10	7	65		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	29	3.35	< 10	4	0.37	20	0.43	0.190	0.033	4.51	106	3	18			< 2	< 10	12	< 10	6	61		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 45f (Aqua Regia) Meas	308	11.7	20	1	0.10	11	0.16	0.042	0.019	0.02		27	14	0.13		4	< 10	187		5	29		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 45f (Aqua Regia) Meas	324	12.3	20	1	0.11	12	0.16	0.041	0.020	0.02		29	15	0.13		< 2	< 10	194		6	29		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.06	0.36
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.31
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
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Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Oreas E1336 (Fire Assay) Cert																							
GC20-0078-009FD Orig																							
GC20-0078-009FD Dup																							
1324099013 Orig																							
1324099013 Dup																							
GC20-0116-009 Orig	172	3.51	< 10	< 1	0.10	< 10	1.02	0.330	0.034	2.60	3	1	148	< 0.01	< 1	< 2	< 10	14	11	2	16		
GC20-0116-009 Dup	169	3.66	< 10	< 1	0.10	< 10	1.05	0.339	0.034	2.74	3	1	152	< 0.01	< 1	< 2	< 10	15	11	2	16		
1231039144 Orig																						0.18	2.13
1231039144 Dup																						0.18	2.07
1231039078 Orig																							
1231039078 Dup																							
1231039047 Orig																							
1231039047 Dup																							
1324016097 Orig																						0.27	2.14
1324016097 Dup																						0.28	2.14
GC20-0130-001 Orig	150	3.03	< 10	< 1	0.40	13	1.32	0.056	0.034	2.15	3	< 1	25	< 0.01	3	< 2	< 10	10	16	2	21		
GC20-0130-001 Dup	152	3.10	< 10	< 1	0.42	13	1.35	0.058	0.035	2.19	< 2	1	26	< 0.01	5	< 2	< 10	10	17	2	21		
1324010087 Orig	210	2.69	< 10	< 1	0.21	15	1.06	0.080	0.038	1.85	< 2	1	38	0.02	< 1	< 2	< 10	10	< 10	3	16		
1324010087 Dup	210	2.66	< 10	< 1	0.21	15	1.05	0.078	0.037	1.80	< 2	1	37	0.02	1	< 2	< 10	10	< 10	3	16		
1324016061 Orig																							
1324016061 Dup																							
1324016096 Orig																						0.21	2.22
1324016096 Dup																						0.22	2.30
1231036071 Orig																							
1231036071 Dup																							
1324010157 Orig	143	3.26	< 10	< 1	0.27	11	1.19	0.084	0.035	2.08	< 2	1	24	0.02	4	< 2	< 10	19	< 10	2	19		
1324010157 Dup	143	3.30	< 10	< 1	0.27	12	1.20	0.084	0.035	2.12	< 2	1	23	0.02	8	< 2	< 10	19	< 10	2	19		
1231036097 Orig																						0.47	0.51
1231036097 Dup																						0.48	0.56
1231036001 Orig																							
1231036001 Dup																							
1231038065 Orig																						0.46	0.10
1231038065 Dup																						0.46	0.10
1231038126 Orig	337	1.88	< 10	< 1	0.41	20	0.58	0.070	0.046	0.05	3	2	43	0.09	5	< 2	< 10	21	< 10	2	10		
1231038126 Dup	339	1.87	< 10	< 1	0.41	20	0.58	0.072	0.046	0.05	< 2	2	43	0.10	2	< 2	< 10	21	< 10	2	10		
1324010232 Orig																							
1324010232 Dup																							
1231039189 Orig	137	3.97	< 10	1	0.20	20	1.42	0.025	0.052	3.61	4	< 1	5	< 0.01	< 1	< 2	< 10	10	< 10	1	8		
1231039189 Dup	140	3.98	< 10	< 1	0.21	20	1.43	0.025	0.053	3.60	5	< 1	5	< 0.01	< 1	< 2	< 10	10	< 10	1	8		
1231039061 Orig																						0.11	3.77
1231039061 Dup																						0.12	3.83
1231039152 Orig																							
1231039152 Dup																							
1231039194 Orig																							
1231039194 Dup																							
1231039248 Orig	204	3.96	< 10	< 1	0.22	16	0.98	0.046	0.045	3.78	4	1	15	0.01	2	< 2	< 10	13	< 10	2	11		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1231039248 Dup	204	3.90	< 10	< 1	0.22	16	0.97	0.045	0.045	3.70	4	1	15	0.01	< 1	< 2	< 10	13	< 10	2	10		
1324006013 Orig																						0.29	2.14
1324006013 Dup																						0.29	2.11
GC20-0099-013 Orig	121	3.41	< 10	< 1	0.25	12	0.52	0.106	0.033	2.25	< 2	< 1	78	0.02	7	< 2	< 10	6	< 10	2	17		
GC20-0099-013 Dup	117	3.24	< 10	< 1	0.25	12	0.50	0.104	0.032	2.14	2	< 1	76	0.02	3	< 2	< 10	6	< 10	2	17		
1324010240 Orig																							
1324010240 Dup																							
F001005 Orig	13	1.77	< 10	< 1	0.24	15	0.44	0.204	0.045	0.05	< 2	3	31	0.24	4	< 2	< 10	52	< 10	14	8		
F001005 Dup	14	1.78	< 10	< 1	0.24	15	0.44	0.205	0.045	0.05	< 2	3	32	0.24	< 1	< 2	11	52	< 10	14	7		
1324007094 Orig																							
1324007094 Dup																							
1324016240 Orig																						0.24	2.18
1324016240 Dup																						0.25	2.14
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.014	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank																							
Method Blank																							



Report No.: A20-10431
Report Date: 20-Nov-20
Date Submitted: 02-Sep-20
Your Reference: June-July 2020 Check Assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

141 Pulp samples were submitted for analysis.

Table with 3 columns: The following analytical package(s) were requested, Testing Date, and details of packages like 11 ABA Modified Sobek Package and 4F-C, S.

REPORT A20-10431

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

Footnote: insufficient material for sample F000730 and F001017

CERTIFIED BY:

<original signed by>

[Signature]

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
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Report No.: A20-10431
Report Date: 20-Nov-20
Date Submitted: 02-Sep-20
Your Reference: June-July 2020 Check Assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

141 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2020-09-22 09:03:54
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2020-09-23 14:55:49

REPORT **A20-10431**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

Footnote: insufficient material for sample F000730 and F001017

CERTIFIED BY:
 <original signed by>

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Emmanuel Esemé, Ph.D.
 Quality Control Coordinator

Results

Activation Laboratories Ltd.

Report: A20-10431

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
1231039016	40.0	3.10	-36.9	44.7	0.0694	7.99	383	9.7	0.8	25	842	2	24	46	601	1.73	69	< 10	28	< 0.5	< 2	0.23	11	
1324009001	48.9	97.2	48.2	55.7	1.74	8.92	126	0.7	2.8	36	1760	2	9	77	612	0.71	61	< 10	35	< 0.5	< 2	3.35	7	
1324009067	47.5	64.7	17.2	52.7	1.23	8.73	48	0.6	< 0.5	17	1010	2	9	33	120	1.41	31	< 10	37	< 0.5	< 2	2.41	8	
1324010173	70.9	8.32	-62.6	75.0	0.111	8.48	138	0.7	< 0.5	175	334	< 1	12	< 2	80	1.91	10	< 10	30	< 0.5	< 2	0.72	10	
1324010281	60.8	9.21	-51.6	66.8	0.138	8.50	112	1.3	0.5	189	344	1	12	6	196	1.62	14	< 10	26	< 0.5	5	0.73	10	
1324010103	66.2	9.71	-56.5	71.1	0.137	8.49	219	0.9	< 0.5	218	423	2	15	3	97	2.54	9	< 10	29	< 0.5	4	1.01	10	
1324007239	86.6	7.59	-79.0	90.7	0.0837	8.01	58	0.2	< 0.5	13	407	2	15	4	64	2.27	7	< 10	22	< 0.5	< 2	1.02	9	
GC20-0123-001							29	0.5	< 0.5	82	287	4	13	< 2	37	2.01	4	< 10	30	< 0.5	< 2	0.80	7	
1324010108	8.44	8.11	-0.329	8.27	0.981	8.93	12	0.3	< 0.5	109	454	< 1	45	< 2	57	4.80	< 2	< 10	18	< 0.5	< 2	3.29	22	
1324007106	10.3	8.94	-1.37	10.1	0.885	8.92	35	0.3	< 0.5	115	523	< 1	45	< 2	48	5.00	< 2	< 10	36	< 0.5	< 2	3.23	21	
GC20-0124-001							140	0.4	< 0.5	37	242	< 1	13	< 2	39	2.04	6	< 10	28	< 0.5	< 2	0.91	9	
GC20-0121-011							75	0.3	< 0.5	32	215	4	11	< 2	24	3.08	4	< 10	26	< 0.5	3	1.19	7	
GC20-0119-001							21	< 0.2	< 0.5	46	350	7	15	< 2	41	2.52	3	< 10	39	< 0.5	< 2	1.23	7	
GC20-0119-018							132	0.5	< 0.5	65	241	2	14	< 2	71	3.43	8	< 10	40	< 0.5	< 2	1.34	20	
GC20-0117-001							45	0.3	< 0.5	46	219	6	11	< 2	35	2.23	4	< 10	59	< 0.5	< 2	0.86	8	
GC20-0122-002							366	0.4	< 0.5	96	258	3	9	< 2	35	2.77	22	< 10	22	< 0.5	3	1.35	5	
1231038215	42.2	14.9	-27.3	47.5	0.314	8.56	116	3.4	1.0	23	1050	< 1	20	101	331	1.84	33	< 10	44	< 0.5	< 2	1.04	10	
1324007120	7.50	10.6	3.06	7.35	1.44	8.94	11	< 0.2	< 0.5	120	453	< 1	44	< 2	48	5.13	3	< 10	16	< 0.5	< 2	3.67	21	
GC20-0120-015							72	0.2	< 0.5	24	200	4	13	< 2	23	2.80	7	< 10	31	< 0.5	2	1.00	8	
1324009003	43.1	82.2	39.1	47.5	1.73	8.79	32	0.6	< 0.5	20	1140	< 1	12	7	61	1.21	28	< 10	37	< 0.5	< 2	3.17	8	
1324010018	46.7	33.6	-13.0	51.1	0.658	8.72	90	1.1	< 0.5	211	338	2	14	3	112	1.57	6	< 10	44	< 0.5	4	1.72	9	
1324009041	52.2	65.6	13.4	57.0	1.15	8.68	53	1.1	0.6	23	1190	< 1	11	25	156	1.43	41	< 10	36	< 0.5	< 2	2.73	8	
GC20-0114-001							> 5000	3.2	< 0.5	1140	254	1	13	36	65	2.53	11	< 10	27	< 0.5	8	1.26	9	
F001017							3250																	
1225029136	34.6	25.9	-8.63	40.4	0.642	8.83	124	1.4	0.5	57	407	1	13	6	179	1.50	23	< 10	44	< 0.5	< 2	1.22	8	
1225029203	44.7	19.5	-25.2	53.3	0.365	8.74	41	0.3	< 0.5	25	415	< 1	17	4	81	1.19	10	< 10	34	< 0.5	< 2	0.91	8	
GC20-0077-012							161	0.6	< 0.5	143	456	< 1	12	5	71	2.38	32	< 10	46	< 0.5	< 2	1.22	8	
1231036151	30.6	9.44	-21.2	34.9	0.270	8.65	108	9.0	< 0.5	12	908	< 1	8	54	95	0.63	33	< 10	39	< 0.5	< 2	0.43	8	
GC20-0084-001							67	0.5	< 0.5	19	294	< 1	14	4	47	1.74	23	< 10	44	< 0.5	2	0.86	8	
GC20-0085-009							344	0.8	< 0.5	289	375	< 1	5	< 2	35	3.50	< 2	< 10	44	< 0.5	5	1.57	4	
1324006148	46.9	23.5	-23.3	57.9	0.407	8.40	940	1.0	2.0	138	571	3	14	4	500	1.91	12	< 10	43	< 0.5	< 2	1.80	10	
GC20-0075-012							119	0.5	< 0.5	36	415	< 1	10	4	103	1.87	17	< 10	30	< 0.5	< 2	1.11	8	
GC20-0076-016							274	0.5	< 0.5	83	422	< 1	10	4	91	2.22	8	< 10	44	< 0.5	< 2	0.36	9	
1324006165	53.1	14.4	-38.8	59.7	0.240	8.76	260	0.7	2.2	191	565	2	13	2	571	1.57	8	< 10	35	< 0.5	< 2	1.04	10	
GC20-0079-018							317	0.6	< 0.5	39	387	< 1	22	7	39	1.97	22	< 10	45	< 0.5	3	0.94	11	
1324006053	3.44	7.37	3.93	3.37	2.19	8.80	8	< 0.2	< 0.5	115	469	< 1	44	< 2	53	5.26	< 2	< 10	14	< 0.5	< 2	3.64	23	
1225029004	40.7	6.64	-34.1	43.8	0.152	8.43	88	0.3	< 0.5	108	337	< 1	11	< 2	46	2.93	8	12	32	< 0.5	< 2	1.11	9	
1225029082	32.2	21.8	-10.4	35.8	0.607	8.90	122	0.6	0.8	96	485	< 1	16	6	235	1.21	13	< 10	41	< 0.5	< 2	1.06	8	
GC20-0080-001							204	0.7	< 0.5	34	485	< 1	12	7	82	1.46	30	< 10	50	< 0.5	< 2	1.91	7	
1324006131	72.8	19.7	-53.1	80.2	0.245	8.26	73	0.6	5.6	144	592	2	24	2	1380	2.06	8	< 10	37	< 0.5	< 2	1.44	13	
GC20-0080-018							642	4.3	< 0.5	33	406	1	10	25	69	2.24	9	< 10	50	< 0.5	2	0.92	7	
1231036106	42.7	8.86	-33.8	45.6	0.194	8.42	187	7.9	< 0.5	22	1310	< 1	9	26	96	0.59	43	< 10	31	< 0.5	< 2	0.42	8	
1225029105	18.8	16.5	-2.35	22.0	0.748	8.70	65	0.4	< 0.5	57	541	1	12	7	139	2.72	6	21	49	< 0.5	< 2	1.07	10	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
1324005062	
GC20-0034-001	
GC20-0030-019	
GC20-0030-001	
1324005053	
1231034626	
1231034236	
1231034358	
GC20-0026-011	
1324005001	
1324005317	
1324005002	
GC20-0027-008	
GC20-0028-001	
GC20-0035-013	
GC20-0028-018	
1231034128	
GC20-0031-014	
GC20-0002-014	
F000730	
1324005025	
1324005076	
1231034038	
1231034185	
1324004130	
1231034040	
1324004129	
1231034252	
1324004158	
1324004183	12.6
1324004104	
1324004029	
1324004006	
1324004048	5.95
GC20-0036-017	
1324004237	
GC20-0037-013	
1324004001	
GC20-0045-009	
1324004240	
F000728	
GC20-0039-009	
1324004173	
1324004057	
GC20-0042-005	
GC20-0044-001	
GC20-0038-004	
GC20-0043-013	
1231034090	
1225026202	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
1324004218	
1225026071	
1225026180	
GC20-0048-006	
GC20-0047-003	
GC20-0040-011	
1231034001	
1324004077	
F000744	
1225026033	
GC20-0055-001	
1225026051	
GC20-0042-014	
1231034326	
1324006070	
GC20-0053-018	
GC20-0053-001	
1225026057	
GC20-0048-014	
1225026175	
1225026075	
GC20-0051-001	
GC20-0051-018	
GC20-0052-001	
GC20-0052-018	
GC20-0038-020	
F000727	
1324006173	
1324006035	
GC20-0058-021	
1225026112	
GC20-0056-010	
1324006077	
GC20-0059-003	
GC20-0059-020	
1225026185	
1324006107	
1225026093	
GC20-0063-001	
1225026031	
1225026113	
1324006082	
GC20-0063-018	
GC20-0060-018	
GC20-0062-001	
GC20-0061-001	
GC20-0060-001	
F001020	
1231039016	
1324009001	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
1324009067	
1324010173	
1324010281	
1324010103	
1324007239	
GC20-0123-001	
1324010108	
1324007106	
GC20-0124-001	
GC20-0121-011	
GC20-0119-001	
GC20-0119-018	
GC20-0117-001	
GC20-0122-002	
1231038215	
1324007120	
GC20-0120-015	
1324009003	
1324010018	
1324009041	
GC20-0114-001	5.62
F001017	
1225029136	
1225029203	
GC20-0077-012	
1231036151	
GC20-0084-001	
GC20-0085-009	
1324006148	
GC20-0075-012	
GC20-0076-016	
1324006165	
GC20-0079-018	
1324006053	
1225029004	
1225029082	
GC20-0080-001	
1324006131	
GC20-0080-018	
1231036106	
1225029105	

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas								0.3	< 0.5	63	947	1	20	85	113	6.50	217	< 10	790	0.9	< 2	0.15	14
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.3	< 0.5	68	1020	1	21	91	121	6.89	241	< 10	747	0.9	< 2	0.14	14
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								< 0.2	< 0.5	70	1050	4	21	94	123	6.86	247	< 10	661	0.8	2	0.11	15
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.3	< 0.5	73	1080	3	23	98	123	7.06	229	< 10	688	0.8	< 2	0.11	15
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
BaSO4 Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
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SGR-1b Meas																							
SGR-1b Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
NBM-1 (slight fzz) Meas		42.4				8.29																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		42.9																					
NBM-1 (slight fzz) Cert		46.6																					
NBM-1 (slight fzz) Meas		42.5																					
NBM-1 (slight fzz) Cert		46.6																					
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2180	726	< 1	30	52	236	2.78	4		85	0.8	6	0.41	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2240	762	< 1	33	56	251	2.89	8		87	0.8	7	0.43	20
OREAS 922								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
(AQUA REGIA) Cert																							
OREAS 922 (AQUA REGIA) Meas								0.7	< 0.5	2170	775	2	34	58	248	2.84	6		79	0.7	4	0.38	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2310	782	< 1	34	57	254	2.89	6		78	0.8	7	0.39	20
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								2.1	< 0.5	4240	811	< 1	27	74	306	2.74	6		67	0.7	21	0.40	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.5	< 0.5	4450	860	< 1	29	78	314	2.84	6		69	0.7	18	0.42	23
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								2.1	< 0.5	4250	854	3	31	78	321	2.84	6		63	0.7	12	0.39	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.7	< 0.5	4420	901	< 1	32	77	331	2.95	9		64	0.7	8	0.39	24
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 96 (Aqua Regia) Meas								10.5		> 10000				87	402							< 2	47
Oreas 96 (Aqua Regia) Cert								11.50		39100. 00				100	448							27.9	49.2
Oreas 96 (Aqua Regia) Meas								11.0		> 10000				88	416							< 2	49
Oreas 96 (Aqua Regia) Cert								11.50		39100. 00				100	448							27.9	49.2
Oreas 621 (Aqua Regia) Meas								64.0	263	3450	487	12	23	> 5000	> 10000	1.65	73			0.6	4	1.57	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								65.8	267	3540	509	12	23	> 5000	> 10000	1.74	74			0.6	4	1.62	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								65.5	289	3460	539	11	25	> 5000	> 10000	1.75	73			0.6	< 2	1.60	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 229b (Fire Assay) Meas																							
OREAS 229b (Fire Assay) Cert																							
OREAS 45f (Aqua Regia) Meas										296	161	1	198	9	28	7.09			139	1.0	< 2	0.07	37
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										315	175	< 1	211	9	28	7.56			147	1.0	< 2	0.08	39
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 238 (Fire Assay) Meas							3080																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3110																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3140																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3180																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3040																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3120																
OREAS 238 (Fire Assay) Cert							3030																
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
OREAS 257b (Fire Assay) Meas																							
OREAS 257b (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas							506																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							495																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							508																

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Assay) Meas																							
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							519																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							496																
Oreas E1336 (Fire Assay) Cert							510																
1231034236 Orig								0.4	< 0.5	117	531	2	41	7	101	4.55	7	< 10	24	< 0.5	< 2	3.06	22
1231034236 Dup								0.4	< 0.5	118	541	2	42	9	105	4.62	8	< 10	23	< 0.5	< 2	3.14	22
GC20-0026-011 Orig							106																
GC20-0026-011 Dup							105																
1324005025 Orig								0.6	< 0.5	121	564	3	15	3	89	1.14	7	< 10	39	< 0.5	< 2	1.11	9
1324005025 Dup								0.8	< 0.5	120	553	3	15	< 2	91	1.12	7	< 10	43	< 0.5	< 2	1.10	9
1324004183 Orig							> 5000																
1324004183 Dup							> 5000																
1324004104 Orig																							
1324004104 Dup																							
1324004048 Orig								2.2	4.9	31	867	2	8	189	1200	0.73	128	< 10	28	< 0.5	< 2	1.20	9
1324004048 Dup								1.8	4.7	31	835	2	12	190	1150	0.71	129	< 10	28	< 0.5	< 2	1.17	8
1324004001 Orig							245																
1324004001 Dup							264																
GC20-0039-009 Orig								1.4	4.7	178	734	2	48	3	1150	2.52	58	< 10	< 10	< 0.5	3	0.71	35
GC20-0039-009 Dup								1.4	4.4	183	746	2	48	3	1130	2.54	59	< 10	< 10	< 0.5	3	0.74	35
1324004218 Orig							206																
1324004218 Dup							165																
1225026180 Orig	65.9	14.0	-51.9	70.1	0.199																		
1225026180 Dup	65.9	13.7	-52.2	70.1	0.195																		
1231034001 Orig								0.2	< 0.5	90	504	2	18	3	110	2.44	5	< 10	44	< 0.5	< 2	1.80	11
1231034001 Dup								0.3	< 0.5	89	505	2	18	< 2	116	2.45	6	< 10	45	< 0.5	< 2	1.79	11
1324006070 Orig							130																
1324006070 Dup							173																
1225026175 Orig																							
1225026175 Dup																							
1225026075 Orig								1.2	< 0.5	233	527	4	63	4	80	2.02	15	< 10	46	< 0.5	3	1.89	11
1225026075 Dup								1.5	< 0.5	231	521	4	60	4	77	1.99	16	< 10	52	< 0.5	3	1.85	10
GC20-0051-018 Orig							148																
GC20-0051-018 Dup							142																
GC20-0059-003 Orig								< 0.2	< 0.5	17	396	5	12	< 2	103	3.22	7	< 10	61	< 0.5	< 2	1.56	6
GC20-0059-003 Dup								< 0.2	< 0.5	17	403	5	12	< 2	108	3.27	5	< 10	59	< 0.5	< 2	1.59	6
1225026185 Orig							273																

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank							< 5																
Method Blank																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
GXR-6 Meas	73	5.19	20	< 1	1.09	< 10	0.37	0.085	0.031	0.01	4	23	33		< 1	< 2	< 10	161	< 10	6	12			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
GXR-6 Meas	77	5.54	20	< 1	1.15	10	0.39	0.077	0.034	0.01	6	24	31		< 1	2	< 10	170	< 10	6	13			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
GXR-6 Meas	77	5.73	20	1	1.09	< 10	0.39	0.077	0.034	0.01	5	16	24		< 1	< 2	< 10	161	< 10	3	9			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
GXR-6 Meas	80	5.90	20	1	1.12	< 10	0.40	0.081	0.035	0.01	4	17	26		< 1	2	< 10	164	< 10	3	5			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
BaSO4 Meas																							14.0	
BaSO4 Cert																								14.0
BaSO4 Meas																								14.0
BaSO4 Cert																								14.0
BaSO4 Meas																								14.1
BaSO4 Cert																								14.0
BaSO4 Meas																								14.1
BaSO4 Cert																								14.0
SGR-1b Meas																							27.5	1.49
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.7	1.55
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.6	1.54
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.6	1.54
SGR-1b Cert																							28	1.53
GS311-4 Meas																							1.11	0.55
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.11	0.57
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.10	0.57
GS311-4 Cert																							1.11	0.54
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
OREAS 922 (AQUA REGIA) Meas	44	5.01	< 10		0.51	34	1.28	0.032	0.059	0.33	< 2	4	16			< 2	< 10	36	< 10	21	21			
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3			
OREAS 922 (AQUA REGIA) Meas	45	5.14	< 10		0.52	36	1.31	0.030	0.060	0.36	3	4	16			< 2	< 10	36	< 10	21	16			
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3			
OREAS 922	45	5.05	< 10		0.48	36	1.28	0.028	0.060	0.37	2	4	16			< 2	< 10	34	< 10	15	15			

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
(AQUA REGIA) Meas																							
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	45	5.28	< 10		0.48	38	1.34	0.032	0.062	0.39	< 2	4	16			< 2	< 10	34	< 10	16	17		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 923 (AQUA REGIA) Meas	40	5.79	< 10		0.42	30	1.37		0.056	0.61	2	4	14			< 2	< 10	34	< 10	19	24		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	41	5.94	< 10		0.44	32	1.41		0.057	0.66	3	4	14			< 2	< 10	35	< 10	19	24		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	40	5.75	< 10		0.41	33	1.38		0.058	0.68	4	4	14			< 2	< 10	33	< 10	14	24		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	42	5.96	< 10		0.42	35	1.44		0.060	0.71	< 2	4	15			< 2	< 10	34	< 10	15	29		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 96 (Aqua Regia) Meas										4.12	7												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										4.16	8												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 621 (Aqua Regia) Meas	30	3.24	< 10	4	0.35	18	0.41	0.186	0.031	4.22	106	2	19			< 2	< 10	12	< 10	7	63		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	32	3.35	< 10	4	0.38	18	0.42	0.194	0.032	4.24	105	2	19			< 2	< 10	13	< 10	7	65		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	29	3.35	< 10	4	0.37	20	0.43	0.190	0.033	4.51	106	3	18			< 2	< 10	12	< 10	6	61		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 229b (Fire Assay) Meas																							
OREAS 229b (Fire Assay) Cert																							
OREAS 45f (Aqua	308	11.7	20	1	0.10	11	0.16	0.042	0.019	0.02		27	14	0.13		4	< 10	187		5	29		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Regia) Meas																							
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270			31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0	
OREAS 45f (Aqua Regia) Meas	324	12.3	20	1	0.11	12	0.16	0.041	0.020	0.02			29	15	0.13		< 2	< 10	194		6	29	
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270			31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0	
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
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OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																							0.05
GS316-3 Cert																							0.0600
GS316-3 Meas																							0.07
GS316-3 Cert																							0.0600
GS316-3 Meas																							0.07
GS316-3 Cert																							0.0600
OREAS 257b (Fire Assay) Meas																							
OREAS 257b (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
1231034236 Orig	245	4.30	< 10	< 1	0.11	< 10	1.54	0.541	0.026	0.26	2	5	58	0.20	2	< 2	< 10	112	< 10	3	4		
1231034236 Dup	248	4.37	< 10	< 1	0.11	< 10	1.57	0.550	0.027	0.27	< 2	5	59	0.20	< 1	< 2	< 10	112	< 10	3	4		
GC20-0026-011 Orig																							
GC20-0026-011 Dup																							
1324005025 Orig	294	2.47	< 10	< 1	0.17	14	0.74	0.060	0.039	1.61	2	1	23	0.02	< 1	< 2	< 10	16	< 10	2	15	0.46	1.64
1324005025 Dup	279	2.43	< 10	< 1	0.16	14	0.73	0.059	0.038	1.62	< 2	1	22	0.02	< 1	< 2	< 10	15	< 10	2	15	0.47	1.67
1324004183 Orig																							
1324004183 Dup																							
1324004104 Orig																						0.49	3.04
1324004104 Dup																						0.48	2.99
1324004048 Orig	140	1.95	< 10	< 1	0.27	13	0.54	0.022	0.049	1.93	4	< 1	29	< 0.01	< 1	< 2	< 10	6	< 10	2	11		
1324004048 Dup	137	1.87	< 10	< 1	0.26	13	0.52	0.021	0.047	1.85	3	< 1	29	< 0.01	< 1	< 2	< 10	5	< 10	2	11		
1324004001 Orig																							
1324004001 Dup																							
GC20-0039-009 Orig	119	7.36	< 10	< 1	0.19	< 10	1.37	0.119	0.075	6.35	3	4	43	0.11	7	< 2	< 10	69	< 10	8	8		
GC20-0039-009 Dup	117	7.40	< 10	< 1	0.20	< 10	1.40	0.126	0.076	6.28	3	5	44	0.12	2	< 2	< 10	69	< 10	9	8		
1324004218 Orig																						0.32	1.32
1324004218 Dup																						0.32	1.36
1225026180 Orig																							
1225026180 Dup																							
1231034001 Orig	129	2.52	< 10	< 1	0.22	12	1.07	0.208	0.038	0.36	< 2	3	40	0.10	< 1	< 2	< 10	40	< 10	2	7		
1231034001 Dup	130	2.50	< 10	< 1	0.21	12	1.05	0.206	0.037	0.36	< 2	3	40	0.10	< 1	< 2	< 10	40	< 10	2	7		
1324006070 Orig																							
1324006070 Dup																							
1225026175 Orig																						0.85	1.52
1225026175 Dup																						0.84	1.52
1225026075 Orig	363	3.31	< 10	< 1	0.24	18	1.52	0.101	0.049	2.14	2	2	83	< 0.01	4	< 2	< 10	18	< 10	2	14		
1225026075 Dup	359	3.25	< 10	< 1	0.24	18	1.49	0.102	0.049	2.11	3	2	82	< 0.01	7	< 2	< 10	18	< 10	2	15		
GC20-0051-018 Orig																							
GC20-0051-018 Dup																							
GC20-0059-003 Orig	155	1.36	< 10	< 1	0.22	< 10	0.94	0.270	0.037	0.48	3	< 1	213	< 0.01	2	< 2	< 10	11	< 10	1	14		
GC20-0059-003 Dup	157	1.37	< 10	< 1	0.22	< 10	0.96	0.271	0.037	0.46	2	< 1	217	< 0.01	< 1	< 2	< 10	11	< 10	1	14		
1225026185 Orig																							
1225026185 Dup																							
1324006082 Orig																						0.29	1.85
1324006082 Dup																						0.27	1.88
1231039016 Orig	102	2.66	< 10	< 1	0.34	20	1.24	0.024	0.059	1.54	3	1	11	0.01	< 1	< 2	< 10	20	< 10	2	11		
1231039016 Dup	103	2.66	< 10	< 1	0.34	21	1.24	0.024	0.060	1.53	< 2	1	11	0.01	< 1	< 2	< 10	20	< 10	2	11		
1324009001 Orig																							
1324009001 Dup																							
1324007106 Orig																							
1324007106 Dup																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GC20-0122-002 Orig	72	2.61	< 10	< 1	0.08	11	1.01	0.255	0.034	1.79	4	1	121	< 0.01	2	< 2	< 10	14	< 10	3	12		
GC20-0122-002 Dup	74	2.55	< 10	< 1	0.08	12	1.01	0.247	0.035	1.76	3	1	119	< 0.01	4	< 2	< 10	14	< 10	3	12		
1231038215 Orig																						0.26	1.51
1231038215 Dup																						0.26	1.59
1324009041 Orig																							
1324009041 Dup																							
GC20-0114-001 Orig																							
GC20-0114-001 Dup																							
1225029136 Orig	216	2.18	< 10	< 1	0.24	10	0.87	0.094	0.037	1.31	2	1	33	< 0.01	< 1	< 2	< 10	12	< 10	2	11		
1225029136 Dup	220	2.16	< 10	< 1	0.24	11	0.87	0.094	0.038	1.31	< 2	1	33	< 0.01	3	< 2	< 10	12	< 10	2	11		
GC20-0085-009 Orig	124	3.06	< 10	< 1	0.19	12	0.93	0.312	0.035	0.95	3	< 1	164	0.02	< 1	< 2	< 10	9	< 10	2	16		
GC20-0085-009 Dup	123	3.04	< 10	< 1	0.19	12	0.93	0.311	0.034	0.95	2	< 1	165	0.02	< 1	< 2	< 10	9	< 10	2	16		
1225029004 Orig																						0.13	1.40
1225029004 Dup																						0.15	1.46
1225029105 Orig	114	3.15	< 10	< 1	0.27	15	1.59	0.149	0.043	0.67	2	1	42	0.04	< 1	< 2	< 10	17	< 10	2	12		
1225029105 Dup	108	3.00	< 10	< 1	0.25	15	1.51	0.139	0.041	0.70	2	1	40	0.03	3	< 2	< 10	16	< 10	2	12		
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.014	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
GXR-6 Meas	
GXR-6 Cert	
GXR-6 Meas	
GXR-6 Cert	
GXR-6 Meas	
GXR-6 Cert	
GXR-6 Meas	
GXR-6 Cert	
BaSO4 Meas	
BaSO4 Cert	
BaSO4 Meas	
BaSO4 Cert	
BaSO4 Meas	
BaSO4 Cert	
BaSO4 Meas	
BaSO4 Cert	
SGR-1b Meas	
SGR-1b Cert	
SGR-1b Meas	
SGR-1b Cert	
SGR-1b Meas	
SGR-1b Cert	
SGR-1b Meas	
SGR-1b Cert	
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 923 (AQUA REGIA) Meas	
OREAS 923 (AQUA REGIA) Cert	
OREAS 923 (AQUA REGIA) Meas	
OREAS 923 (AQUA REGIA) Cert	
OREAS 923 (AQUA REGIA) Meas	
OREAS 923 (AQUA REGIA) Cert	
OREAS 923 (AQUA REGIA) Meas	
OREAS 923 (AQUA REGIA) Cert	
Oreas 96 (Aqua Regia) Meas	
Oreas 96 (Aqua Regia) Cert	
Oreas 96 (Aqua Regia) Meas	
Oreas 96 (Aqua Regia) Cert	
Oreas 621 (Aqua Regia) Meas	
Oreas 621 (Aqua Regia) Cert	
Oreas 621 (Aqua Regia) Meas	
Oreas 621 (Aqua Regia) Cert	
Oreas 621 (Aqua Regia) Meas	
Oreas 621 (Aqua Regia) Cert	
OREAS 229b (Fire Assay) Meas	12.2
OREAS 229b (Fire Assay) Cert	11.9

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
OREAS 45f (Aqua Regia) Meas	
OREAS 45f (Aqua Regia) Cert	
OREAS 45f (Aqua Regia) Meas	
OREAS 45f (Aqua Regia) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
OREAS 257b (Fire Assay) Meas	15.0
OREAS 257b (Fire Assay) Cert	14.2
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
Assay) Cert	
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	
1231034236 Orig	
1231034236 Dup	
GC20-0026-011 Orig	
GC20-0026-011 Dup	
1324005025 Orig	
1324005025 Dup	
1324004183 Orig	11.9
1324004183 Dup	13.4
1324004104 Orig	
1324004104 Dup	
1324004048 Orig	
1324004048 Dup	
1324004001 Orig	
1324004001 Dup	
GC20-0039-009 Orig	
GC20-0039-009 Dup	
1324004218 Orig	
1324004218 Dup	
1225026180 Orig	
1225026180 Dup	
1231034001 Orig	
1231034001 Dup	
1324006070 Orig	
1324006070 Dup	
1225026175 Orig	
1225026175 Dup	
1225026075 Orig	
1225026075 Dup	
GC20-0051-018 Orig	
GC20-0051-018 Dup	
GC20-0059-003 Orig	
GC20-0059-003 Dup	
1225026185 Orig	
1225026185 Dup	
1324006082 Orig	
1324006082 Dup	
1231039016 Orig	
1231039016 Dup	
1324009001 Orig	
1324009001 Dup	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
1324007106 Orig	
1324007106 Dup	
GC20-0122-002 Orig	
GC20-0122-002 Dup	
1231038215 Orig	
1231038215 Dup	
1324009041 Orig	
1324009041 Dup	
GC20-0114-001 Orig	
GC20-0114-001 Dup	
1225029136 Orig	
1225029136 Dup	
GC20-0085-009 Orig	
GC20-0085-009 Dup	
1225029004 Orig	
1225029004 Dup	
1225029105 Orig	
1225029105 Dup	
Method Blank	
Method Blank	
Method Blank	
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Method Blank	
Method Blank	< 0.02



Report No.: A20-10434
Report Date: 19-Oct-20
Date Submitted: 02-Sep-20
Your Reference: June-July 2020 Check Assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

141 Pulp samples were submitted for analysis.

Table with 3 columns: The following analytical package(s) were requested, Testing Date, and details of packages like 11 ABA Modified Sobek Package and 4F-C, S.

REPORT A20-10434

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

<original signed by>

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
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E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Report No.: A20-10434
Report Date: 19-Oct-20
Date Submitted: 02-Sep-20
Your Reference: June-July 2020 Check Assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

141 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2020-09-22 09:03:54
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2020-09-25 19:21:56

REPORT A20-10434

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

<original signed by>



Emmanuel Esemé, Ph.D.
Quality Control Coordinator

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E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas								0.3	< 0.5	63	947	1	20	85	113	6.50	217	< 10	790	0.9	< 2	0.15	14
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.3	< 0.5	68	1020	1	21	91	121	6.89	241	< 10	747	0.9	< 2	0.14	14
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								< 0.2	< 0.5	70	1050	4	21	94	123	6.86	247	< 10	661	0.8	2	0.11	15
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.3	< 0.5	73	1080	3	23	98	123	7.06	229	< 10	688	0.8	< 2	0.11	15
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
BaSO4 Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
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SGR-1b Meas																							
SGR-1b Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
OREAS 98 (S by LECO) Meas																							
OREAS 98 (S by LECO) Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
NBM-1 (slight fzz) Meas		42.9				8.32																	
NBM-1 (slight fzz) Cert		46.6				8.53																	

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
NBM-1 (slight fzz) Meas		42.4				8.30																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2180	726	< 1	30	52	236	2.78	4		85	0.8	6	0.41	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2240	762	< 1	33	56	251	2.89	8		87	0.8	7	0.43	20
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.7	< 0.5	2170	775	2	34	58	248	2.84	6		79	0.7	4	0.38	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2310	782	< 1	34	57	254	2.89	6		78	0.8	7	0.39	20
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								2.1	< 0.5	4240	811	< 1	27	74	306	2.74	6		67	0.7	21	0.40	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.5	< 0.5	4450	860	< 1	29	78	314	2.84	6		69	0.7	18	0.42	23
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								2.1	< 0.5	4250	854	3	31	78	321	2.84	6		63	0.7	12	0.39	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.7	< 0.5	4420	901	< 1	32	77	331	2.95	9		64	0.7	8	0.39	24
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 96 (Aqua Regia) Meas								10.5		> 10000				87	402						< 2		47
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
Oreas 96 (Aqua Regia) Meas								11.0		> 10000				88	416						< 2		49

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
Oreas 621 (Aqua Regia) Meas								64.0	263	3450	487	12	23	> 5000	> 10000	1.65	73			0.6	4	1.57	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								65.8	267	3540	509	12	23	> 5000	> 10000	1.74	74			0.6	4	1.62	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								65.5	289	3460	539	11	25	> 5000	> 10000	1.75	73			0.6	< 2	1.60	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 45f (Aqua Regia) Meas										296	161	1	198	9	28	7.09			139	1.0	< 2	0.07	37
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										315	175	< 1	211	9	28	7.56			147	1.0	< 2	0.08	39
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 238 (Fire Assay) Meas							3080																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3110																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3170																
OREAS 238 (Fire Assay) Cert							3030																
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
Oreas E1336 (Fire Assay) Meas							506																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							495																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							506																

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							516																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							520																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							513																
Oreas E1336 (Fire Assay) Cert							510																
1225013008 Orig							52																
1225013008 Dup							54																
1225013014 Orig																							
1225013014 Dup																							
1225013085 Orig								1.1	0.7	131	262	2	20	< 2	271	1.87	3	< 10	42	< 0.5	10	0.87	7
1225013085 Dup								1.1	0.8	127	260	2	19	< 2	264	1.87	3	< 10	46	< 0.5	11	0.87	7
1225013179 Orig							351																
1225013179 Dup							324																
1225013135 Orig																							
1225013135 Dup																							
1225013252 Orig							142																
1225013252 Dup							99																
1231034486 Orig								0.9	0.5	25	674	1	19	7	171	1.75	15	< 10	82	< 0.5	< 2	1.68	9
1231034486 Dup								1.0	0.5	26	671	1	19	7	172	1.75	17	< 10	81	< 0.5	< 2	1.68	10
1231034227 Orig							270																
1231034227 Dup							247																
1324005274 Orig																							
1324005274 Dup																							
1324003162 Orig								10.2	1.3	50	1840	1	14	58	347	1.04	37	< 10	26	< 0.5	< 2	2.50	10
1324003162 Dup								9.8	1.3	48	1820	< 1	14	62	335	1.02	37	< 10	25	< 0.5	< 2	2.47	10
1324003194 Orig							20																
1324003194 Dup							22																
1324003009 Orig	26.6	11.2	-15.4	31.2	0.358																		
1324003009 Dup	26.6	11.3	-15.3	31.2	0.361																		
GC20-0004-015 Orig							327																
GC20-0004-015 Dup							346																
1324003092 Orig																							
1324003092 Dup																							
1324001433 Orig								3.1	7.7	150	856	< 1	12	52	1610	2.06	38	< 10	28	< 0.5	< 2	2.12	9
1324001433 Dup								3.1	7.6	147	841	< 1	14	51	1600	2.02	36	< 10	27	< 0.5	< 2	2.11	9
1232018041 Orig								0.3	< 0.5	22	347	2	13	5	49	2.36	6	< 10	60	< 0.5	< 2	1.47	8
1232018041 Dup								0.3	< 0.5	17	341	1	13	4	48	2.33	4	< 10	60	< 0.5	< 2	1.45	8
GC20-0009-011 Orig							97																
GC20-0009-011 Dup							129																

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1324003033 Orig							241																
1324003033 Dup							235																
1324005194 Orig							142																
1324005193 Orig								0.6	< 0.5	116	220	2	12	5	57	1.63	15	< 10	28	< 0.5	3	0.63	9
1324005193 Dup								0.6	< 0.5	117	219	2	12	4	55	1.63	15	< 10	28	< 0.5	3	0.63	10
GC20-0018-016 Orig								0.2	1.5	20	606	< 1	11	2	333	2.52	14	< 10	54	< 0.5	< 2	1.93	9
GC20-0018-016 Dup								0.3	1.5	22	605	< 1	13	2	338	2.52	12	< 10	55	< 0.5	< 2	1.96	9
GC20-0073-014 Orig							79																
GC20-0073-014 Dup							74																
1324006089 Orig																							
1324006089 Dup																							
1324005084 Orig	16.8	8.24	-8.53	19.6	0.420																		
1324005084 Dup	16.8	8.16	-8.61	19.6	0.416																		
GC20-0071-018 Orig								0.3	< 0.5	47	415	< 1	11	< 2	63	2.50	7	< 10	32	< 0.5	< 2	0.61	9
GC20-0071-018 Dup								0.3	< 0.5	46	406	< 1	10	< 2	62	2.42	9	< 10	31	< 0.5	< 2	0.59	8
1324006238 Orig																							
1324006238 Dup																							
GC20-0072-014 Orig								0.4	< 0.5	76	261	1	9	2	63	2.34	20	< 10	35	< 0.5	< 2	0.85	9
GC20-0072-014 Dup								0.5	< 0.5	77	263	1	8	< 2	65	2.34	25	< 10	36	< 0.5	< 2	0.86	9
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
GXR-6 Meas	73	5.19	20	< 1	1.09	< 10	0.37	0.085	0.031	0.01	4	23	33		< 1	< 2	< 10	161	< 10	6	12			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
GXR-6 Meas	77	5.54	20	< 1	1.15	10	0.39	0.077	0.034	0.01	6	24	31		< 1	2	< 10	170	< 10	6	13			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
GXR-6 Meas	77	5.73	20	1	1.09	< 10	0.39	0.077	0.034	0.01	5	16	24		< 1	< 2	< 10	161	< 10	3	9			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
GXR-6 Meas	80	5.90	20	1	1.12	< 10	0.40	0.081	0.035	0.01	4	17	26		< 1	2	< 10	164	< 10	3	5			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
BaSO4 Meas																							14.0	
BaSO4 Cert																								14.0
BaSO4 Meas																								13.6
BaSO4 Cert																								14.0
BaSO4 Meas																								13.7
BaSO4 Cert																								14.0
BaSO4 Meas																								13.9
BaSO4 Cert																								14.0
BaSO4 Meas																								13.9
BaSO4 Cert																								14.0
SGR-1b Meas																								27.6
SGR-1b Cert																								28
SGR-1b Meas																								27.9
SGR-1b Cert																								28
SGR-1b Meas																								27.6
SGR-1b Cert																								28
SGR-1b Meas																								27.9
SGR-1b Cert																								28
SGR-1b Meas																								27.4
SGR-1b Cert																								28
SGR-1b Meas																								27.7
SGR-1b Cert																								28
OREAS 98 (S by LECO) Meas																								16.0
OREAS 98 (S by LECO) Cert																								16.0
GS311-4 Meas																								1.11
GS311-4 Cert																								1.11
GS311-4 Meas																								1.11
GS311-4 Cert																								1.11
GS311-4 Meas																								1.10
GS311-4 Cert																								1.11
GS311-4 Meas																								1.11
GS311-4 Cert																								1.11
GS311-4 Meas																								1.10
GS311-4 Cert																								1.11
GS311-4 Meas																								1.11
GS311-4 Cert																								1.11
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
NBM-1 (slight fzz) Meas																								

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	44	5.01	< 10		0.51	34	1.28	0.032	0.059	0.33	< 2	4	16			< 2	< 10	36	< 10	21	21		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	45	5.14	< 10		0.52	36	1.31	0.030	0.060	0.36	3	4	16			< 2	< 10	36	< 10	21	16		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	45	5.05	< 10		0.48	36	1.28	0.028	0.060	0.37	2	4	16			< 2	< 10	34	< 10	15	15		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	45	5.28	< 10		0.48	38	1.34	0.032	0.062	0.39	< 2	4	16			< 2	< 10	34	< 10	16	17		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 923 (AQUA REGIA) Meas	40	5.79	< 10		0.42	30	1.37		0.056	0.61	2	4	14			< 2	< 10	34	< 10	19	24		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	41	5.94	< 10		0.44	32	1.41		0.057	0.66	3	4	14			< 2	< 10	35	< 10	19	24		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	40	5.75	< 10		0.41	33	1.38		0.058	0.68	4	4	14			< 2	< 10	33	< 10	14	24		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	42	5.96	< 10		0.42	35	1.44		0.060	0.71	< 2	4	15			< 2	< 10	34	< 10	15	29		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 96 (Aqua Regia) Meas										4.12	7												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										4.16	8												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 621 (Aqua Regia) Meas	30	3.24	< 10	4	0.35	18	0.41	0.186	0.031	4.22	106	2	19			< 2	< 10	12	< 10	7	63		
Oreas 621 (Aqua	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Regia) Cert																							
Oreas 621 (Aqua Regia) Meas	32	3.35	< 10	4	0.38	18	0.42	0.194	0.032	4.24	105	2	19			< 2	< 10	13	< 10	7	65		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	29	3.35	< 10	4	0.37	20	0.43	0.190	0.033	4.51	106	3	18			< 2	< 10	12	< 10	6	61		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 45f (Aqua Regia) Meas	308	11.7	20	1	0.10	11	0.16	0.042	0.019	0.02		27	14	0.13		4	< 10	187		5	29		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 45f (Aqua Regia) Meas	324	12.3	20	1	0.11	12	0.16	0.041	0.020	0.02		29	15	0.13		< 2	< 10	194		6	29		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.05	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.35
GS316-3 Cert																						0.0600	0.340
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
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Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
1225013008 Orig																							
1225013008 Dup																							
1225013014 Orig																						0.18	2.13
1225013014 Dup																						0.18	2.13
1225013085 Orig	488	2.38	< 10	< 1	0.32	13	0.86	0.149	0.039	1.39	3	< 1	61	0.01	4	< 2	< 10	11	< 10	3	16		
1225013085 Dup	471	2.34	< 10	< 1	0.31	13	0.84	0.147	0.038	1.40	4	< 1	60	0.01	3	< 2	< 10	11	< 10	3	17		
1225013179 Orig																							
1225013179 Dup																							
1225013135 Orig																						0.23	1.57
1225013135 Dup																						0.23	1.54
1225013252 Orig																							
1225013252 Dup																							
1231034486 Orig	237	2.37	< 10	2	0.54	20	0.88	0.121	0.053	0.49	5	2	59	0.12	< 1	< 2	< 10	27	< 10	3	18	0.47	0.51
1231034486 Dup	237	2.36	< 10	< 1	0.53	21	0.87	0.118	0.053	0.49	3	2	57	0.12	1	< 2	< 10	27	< 10	3	17	0.47	0.50
1231034227 Orig																							
1231034227 Dup																							
1324005274 Orig																						0.44	2.27
1324005274 Dup																						0.45	2.22
1324003162 Orig	125	2.50	< 10	< 1	0.23	14	0.78	0.059	0.046	2.40	3	< 1	58	< 0.01	7	< 2	< 10	5	< 10	2	18		
1324003162 Dup	126	2.49	< 10	< 1	0.23	14	0.79	0.058	0.044	2.36	3	< 1	57	< 0.01	5	< 2	< 10	5	< 10	2	12		
1324003194 Orig																							
1324003194 Dup																							
1324003009 Orig																							
1324003009 Dup																							
GC20-0004-015 Orig																							
GC20-0004-015 Dup																							
1324003092 Orig																						0.22	2.14
1324003092 Dup																						0.21	2.10
1324001433 Orig	140	2.46	< 10	< 1	0.22	12	1.04	0.099	0.042	2.10	3	< 1	45	0.03	< 1	< 2	< 10	8	< 10	3	16		
1324001433 Dup	135	2.41	< 10	< 1	0.21	12	1.01	0.095	0.041	2.14	3	< 1	45	0.03	2	< 2	< 10	8	< 10	2	17		
1232018041 Orig	193	1.98	< 10	< 1	0.24	17	1.09	0.176	0.042	0.26	< 2	2	51	0.06	2	< 2	< 10	21	< 10	3	12	0.18	0.27
1232018041 Dup	193	1.95	< 10	< 1	0.24	17	1.07	0.176	0.042	0.26	2	2	51	0.06	2	< 2	< 10	21	< 10	2	14	0.19	0.27
GC20-0009-011 Orig																							
GC20-0009-011 Dup																							
1324003033 Orig																							
1324003033 Dup																							
1324005194 Orig																							
1324005193 Orig	180	3.25	< 10	< 1	0.17	14	0.62	0.081	0.044	2.94	< 2	< 1	64	< 0.01	< 1	< 2	< 10	8	< 10	3	23		
1324005193 Dup	176	3.23	< 10	< 1	0.17	14	0.61	0.081	0.043	2.94	< 2	< 1	64	< 0.01	< 1	< 2	< 10	7	< 10	3	23		
GC20-0018-016 Orig	129	2.40	< 10	< 1	0.22	13	1.18	0.241	0.042	1.21	< 2	2	67	0.05	3	< 2	< 10	19	< 10	4	17		
GC20-0018-016 Dup	131	2.45	< 10	< 1	0.23	14	1.20	0.246	0.044	1.24	< 2	2	69	0.05	2	< 2	< 10	19	< 10	4	16		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GC20-0073-014 Orig																							
GC20-0073-014 Dup																							
1324006089 Orig																						0.33	0.89
1324006089 Dup																						0.33	0.89
1324005084 Orig																							
1324005084 Dup																							
GC20-0071-018 Orig	131	2.51	< 10	< 1	0.15	13	1.54	0.172	0.038	1.02	2	1	70	< 0.01	4	< 2	< 10	15	< 10	3	19		
GC20-0071-018 Dup	119	2.35	< 10	< 1	0.13	12	1.47	0.159	0.037	0.98	2	1	64	< 0.01	4	< 2	< 10	14	< 10	3	20		
1324006238 Orig																						0.28	1.65
1324006238 Dup																						0.28	1.68
GC20-0072-014 Orig	134	2.16	< 10	< 1	0.17	10	1.30	0.152	0.037	0.91	2	< 1	93	< 0.01	3	< 2	< 10	11	< 10	2	16		
GC20-0072-014 Dup	131	2.12	< 10	< 1	0.17	10	1.28	0.149	0.037	0.91	3	< 1	93	< 0.01	< 1	< 2	< 10	11	< 10	2	18		
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.014	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							



Report No.: A20-10436-Revised
Report Date: 05-Nov-20
Date Submitted: 02-Sep-20
Your Reference: June-July 2020 Check Assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

141 Pulp samples were submitted for analysis.

Table with 3 columns: Analytical package(s) requested, Testing Date, and Test Method. Includes rows for ABA Modified Sobek Package, Acid Base Accounting, and Infrared.

REPORT A20-10436-Revised

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
Values which exceed the upper limit should be assayed for accurate numbers.
Footnote: Sample F0011363, F001371, F001345, F001343, F001356, and F001347 are insufficient

CERTIFIED BY:

<original signed by>

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

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Report No.: A20-10436-Revised
Report Date: 05-Nov-20
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Your Reference: June-July 2020 Check Assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

141 Pulp samples were submitted for analysis.

Table with 3 columns: Analytical package(s) requested, Method, and Testing Date. Rows include 1A2-50-Tbay, 1E3-Tbay NewGold, QOP AA-Au (Au - Fire Assay AA), and QOP AquaGeo (Aqua Regia ICPOES).

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Notes:

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Footnote: Sample F0011363, F001371, F001345, F001343, F001356, and F001347 are insufficient

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Emmanuel Esemé, Ph.D.
Quality Control Coordinator

Results

Activation Laboratories Ltd.

Report: A20-10436

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1225013258	11.9	18.5	6.61	11.6	1.59	9.00	11	0.3	< 0.5	198	518	1	50	< 2	51	5.14	< 2	< 10	36	< 0.5	2	3.24	22
1225021049	74.2	7.62	-66.5	79.0	0.0965	8.41	1200	0.8	< 0.5	456	224	3	26	3	27	2.93	8	< 10	31	< 0.5	9	1.27	7
1232015202	0.509	39.4	38.9	7.96	4.94	8.40	24	0.4	0.5	21	653	2	26	4	143	1.64	7	< 10	86	< 0.5	< 2	1.69	9
1232015048	0.000	22.6	22.6	4.90	4.61	8.54	10	0.3	< 0.5	25	465	3	39	5	77	1.68	4	< 10	87	< 0.5	< 2	1.42	11
1232015258	2.50	21.7	19.2	2.45	8.87	8.11	< 5	< 0.2	< 0.5	29	414	2	27	< 2	61	2.72	2	< 10	96	< 0.5	< 2	1.76	11
1232015016	29.4	7.97	-21.4	34.6	0.230	9.00	50	0.6	< 0.5	19	543	2	25	22	121	2.11	27	< 10	60	< 0.5	3	0.57	10
1225021008	64.9	11.5	-53.4	72.0	0.159	8.66	682	0.8	< 0.5	259	217	2	22	3	28	2.93	6	< 10	36	< 0.5	14	1.35	9
1225021250	42.6	10.2	-32.4	46.9	0.218	8.34	244	0.5	< 0.5	128	362	4	23	4	42	3.59	19	< 10	43	< 0.5	4	1.27	12
1433002168	19.1	22.5	3.49	26.3	0.856	8.12	211	0.6	< 0.5	79	823	2	42	10	190	3.24	11	< 10	57	< 0.5	5	1.83	26
1225021017	55.4	7.97	-47.4	60.0	0.133	8.94	516	0.6	< 0.5	168	241	3	22	2	24	3.29	4	< 10	32	< 0.5	6	1.44	7
1225013469	0.721	9.62	8.90	5.82	1.65	8.32	80	< 0.2	< 0.5	115	459	1	56	3	47	5.58	< 2	< 10	16	< 0.5	< 2	3.51	23
1225013339	61.4	5.37	-56.1	67.7	0.0794	8.40	152	1.0	2.2	89	406	2	19	6	610	2.39	15	< 10	23	< 0.5	6	0.79	9
1232015051	7.19	14.0	6.77	7.04	1.98	8.55	11	< 0.2	< 0.5	38	411	3	49	3	53	1.58	3	< 10	57	< 0.5	< 2	1.20	14
1225013484	68.8	13.0	-55.9	75.6	0.172	8.41	143	0.6	< 0.5	109	286	5	25	5	59	1.73	11	< 10	34	< 0.5	5	0.83	11
1225013468	3.13	9.60	6.47	3.06	3.13	8.85	7	< 0.2	< 0.5	114	512	2	64	< 2	64	5.08	< 2	< 10	14	< 0.5	2	3.25	26
1225010110	49.4	19.2	-30.1	55.4	0.347	8.67	114	2.4	4.2	63	408	2	24	13	1040	1.90	51	< 10	42	< 0.5	3	1.34	11
1225013270	76.1	10.5	-65.7	81.8	0.128	8.06	191	0.5	0.8	59	419	2	27	6	253	2.85	12	< 10	27	< 0.5	6	1.12	12
1225010016	56.1	8.97	-47.2	64.0	0.140	8.64	270	0.8	6.5	43	345	3	29	21	1610	1.14	72	< 10	28	< 0.5	< 2	0.36	13
1232015195	2.29	22.1	19.8	5.82	3.80	9.60	10	0.7	1.1	29	451	2	28	11	211	1.32	4	< 10	64	< 0.5	< 2	1.24	9
F001363							1050																
1225018004	1.32	28.7	27.3	21.4	1.34	9.17	58	0.4	< 0.5	75	522	3	29	4	128	1.61	9	< 10	54	< 0.5	2	1.22	9
1225025051	110	33.3	-76.8	124	0.269	8.40	247	2.4	1.0	87	603	2	54	8	281	1.98	31	< 10	22	< 0.5	11	1.29	23
1225018138	40.2	10.5	-29.7	47.8	0.220	8.56	581	0.7	< 0.5	68	808	2	21	7	125	3.33	10	10	44	< 0.5	5	1.49	8
1225025095	61.6	11.7	-49.8	68.0	0.173	8.48	165	1.6	4.7	56	639	2	26	5	1120	2.71	21	< 10	23	< 0.5	2	1.21	13
1225025061	65.3	5.85	-59.5	69.8	0.0838	8.34	271	3.9	0.5	15	562	3	35	7	208	2.10	18	< 10	29	< 0.5	3	0.51	15
1232016250	31.5	29.5	-2.09	40.1	0.734	8.73	58	2.8	< 0.5	43	2590	2	169	21	136	2.71	44	< 10	67	< 0.5	2	1.26	31
1225024044	70.6	11.2	-59.4	77.8	0.144	8.35	657	2.9	< 0.5	440	559	2	34	9	70	2.55	17	< 10	29	< 0.5	5	0.92	16
1225024145	19.6	27.7	8.15	23.3	1.19	9.19	201	0.3	0.6	48	669	2	23	5	144	2.52	9	< 10	86	< 0.5	2	1.72	9
1225024090	62.4	12.0	-50.4	68.3	0.175	8.46	79	1.0	0.8	195	340	2	22	3	190	2.93	16	< 10	39	< 0.5	7	0.93	10
1232016290	15.3	8.48	-6.83	15.0	0.565	9.73	43	1.3	< 0.5	48	497	2	39	14	79	1.81	17	< 10	61	< 0.5	< 2	1.06	15
1232016105	1.97	18.1	16.1	11.0	1.64	9.28	35	1.7	< 0.5	15	544	2	22	25	81	2.98	18	< 10	64	< 0.5	3	1.83	6
1225024031	55.7	11.1	-44.6	61.3	0.181	8.56	34	0.4	< 0.5	62	367	6	26	2	126	3.23	7	< 10	39	< 0.5	3	1.53	10
1225015006	30.4	24.2	-6.26	34.3	0.704	9.09	10	0.7	< 0.5	26	533	2	23	11	59	2.94	41	< 10	50	< 0.5	3	1.84	9
1225025071	80.5	11.7	-68.8	87.9	0.133	8.30	158	1.3	4.1	86	695	3	35	6	1090	2.42	25	< 10	27	< 0.5	3	1.12	14
1232016119	13.1	10.4	-2.76	12.9	0.805	8.79	20	1.1	< 0.5	34	373	2	32	7	87	1.43	29	< 10	73	< 0.5	< 2	1.05	13
1225024019	53.9	17.8	-36.1	59.7	0.298	8.67	176	0.9	< 0.5	176	484	2	23	5	109	2.37	11	< 10	27	< 0.5	4	1.03	9
1225024040	52.5	15.3	-37.2	57.0	0.269	8.65	348	1.8	1.1	246	594	4	23	10	202	2.31	17	< 10	27	< 0.5	7	1.35	11
1225024168	48.5	30.9	-17.6	53.3	0.580	8.77	326	0.9	0.6	160	627	2	53	< 2	127	2.26	11	< 10	46	< 0.5	< 2	1.51	14
1232016127	17.2	12.0	-5.22	16.8	0.710	9.21	10	1.0	< 0.5	17	454	3	28	9	41	2.56	20	< 10	61	< 0.5	5	1.29	11
1232016162	28.7	33.8	5.08	33.7	1.00	9.08	154	19.3	1.2	33	862	2	46	110	313	1.87	55	< 10	69	< 0.5	< 2	1.86	13
1232016037	23.3	24.9	1.60	27.6	0.904	9.22	78	3.2	< 0.5	16	687	1	23	22	73	2.40	26	< 10	57	< 0.5	< 2	2.19	11
1225024038	35.4	22.4	-13.0	41.0	0.547	8.89	332	3.6	2.6	120	476	2	42	3	576	2.15	13	< 10	37	< 0.5	14	1.38	12
F001371							703	4.5	< 0.5	29	253	< 1	8	12	39	1.45	< 2	< 10	47	< 0.5	< 2	0.79	10

Results

Activation Laboratories Ltd.

Report: A20-10436

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1232015258	342	2.57	< 10	< 1	0.36	21	1.08	0.171	0.055	0.08	< 2	2	158	0.13	1	< 2	< 10	34	< 10	4	18	0.33	0.08
1232015016	295	2.20	< 10	< 1	0.35	16	0.84	0.040	0.046	1.10	< 2	1	17	0.02	2	< 2	< 10	17	< 10	2	12	0.17	1.13
1225021008	499	3.60	< 10	1	0.27	< 10	0.64	0.205	0.033	2.27	2	< 1	118	0.01	< 1	< 2	< 10	10	< 10	2	19	0.41	2.35
1225021250	353	3.10	< 10	< 1	0.24	11	1.12	0.133	0.039	1.53	2	2	125	0.01	< 1	< 2	< 10	19	< 10	2	21	0.20	1.53
1433002168	309	6.94	< 10	2	0.20	< 10	1.56	0.177	0.071	0.80	3	13	53	0.24	4	< 2	< 10	142	11	12	10	0.26	0.86
1225021017	536	3.67	< 10	< 1	0.26	< 10	0.75	0.235	0.032	2.12	3	< 1	124	< 0.01	< 1	< 2	< 10	10	< 10	2	19	0.22	1.96
1225013469	321	4.75	< 10	1	0.04	< 10	1.61	0.527	0.020	0.18	3	5	59	0.20	< 1	< 2	< 10	120	< 10	4	5	0.17	0.19
1225013339	442	2.73	< 10	< 1	0.21	19	0.99	0.185	0.048	2.26	< 2	< 1	58	< 0.01	2	< 2	< 10	9	< 10	3	14	0.17	2.21
1232015051	619	2.75	< 10	< 1	0.18	14	0.79	0.119	0.048	0.23	3	5	53	0.15	< 1	< 2	< 10	51	< 10	5	10	0.26	0.23
1225013484	452	3.06	< 10	< 1	0.22	13	0.80	0.156	0.039	2.54	3	1	70	< 0.01	2	< 2	< 10	14	< 10	3	21	0.26	2.47
1225013468	438	4.99	< 10	3	0.03	< 10	1.80	0.421	0.019	0.09	< 2	5	65	0.24	2	< 2	< 10	126	< 10	4	5	1.15	0.10
1225010110	334	1.89	< 10	< 1	0.24	15	0.15	0.092	0.041	1.78	5	< 1	70	< 0.01	1	< 2	< 10	8	< 10	1	15	0.31	1.81
1225013270	441	3.34	< 10	2	0.22	15	1.21	0.202	0.041	2.59	3	1	73	0.01	1	< 2	< 10	14	< 10	3	21	0.22	2.67
1225010016	484	2.38	< 10	< 1	0.23	16	0.28	0.034	0.030	2.11	6	< 1	33	< 0.01	< 1	< 2	< 10	9	< 10	2	12	0.12	2.09
1232015195	482	2.01	< 10	< 1	0.29	13	0.63	0.092	0.041	0.24	2	2	33	0.08	1	< 2	< 10	22	< 10	2	15	0.29	0.19
F001363																							
1225018004	534	2.40	< 10	< 1	0.32	12	0.93	0.095	0.037	0.68	< 2	2	34	0.04	< 1	< 2	< 10	19	< 10	2	16	0.43	0.70
1225025051	415	4.81	< 10	2	0.32	14	1.19	0.069	0.062	4.06	3	3	29	0.05	7	< 2	< 10	38	< 10	5	20	0.42	4.05
1225018138	370	3.36	< 10	2	0.28	12	1.11	0.106	0.037	1.52	3	1	94	0.03	< 1	< 2	< 10	13	< 10	2	19	0.24	1.56
1225025095	394	3.49	< 10	1	0.35	13	0.87	0.215	0.046	2.33	< 2	2	63	0.05	3	< 2	< 10	28	< 10	3	24	0.25	2.22
1225025061	435	3.31	< 10	< 1	0.26	14	1.02	0.105	0.052	2.36	3	2	36	< 0.01	2	< 2	< 10	22	< 10	4	21	0.13	2.28
1232016250	852	4.67	< 10	1	0.59	34	3.16	0.032	0.129	1.27	5	8	74	0.06	< 1	< 2	< 10	74	< 10	5	11	0.47	1.31
1225024044	408	3.77	< 10	2	0.34	14	0.99	0.188	0.050	2.60	3	2	62	0.02	1	< 2	< 10	27	< 10	4	19	0.31	2.54
1225024145	359	2.49	< 10	< 1	0.32	13	1.06	0.169	0.045	0.77	< 2	1	64	0.05	< 1	< 2	< 10	19	< 10	3	15	0.40	0.76
1225024090	341	3.70	< 10	< 1	0.29	12	1.24	0.150	0.038	2.26	3	< 1	66	< 0.01	< 1	< 2	< 10	12	< 10	2	22	0.24	2.23
1232016290	457	2.42	< 10	< 1	0.29	14	0.65	0.133	0.050	0.48	< 2	3	55	0.11	< 1	< 2	< 10	37	< 10	4	13	0.14	0.49
1232016105	484	1.31	< 10	< 1	0.32	17	0.61	0.296	0.041	0.35	3	1	110	0.01	< 1	< 2	< 10	15	< 10	2	10	0.35	0.36
1225024031	407	3.08	< 10	< 1	0.28	12	1.04	0.200	0.039	1.94	3	1	95	0.03	< 1	< 2	< 10	14	< 10	2	24	0.21	2.00
1225015006	374	2.33	< 10	< 1	0.25	10	0.73	0.276	0.035	1.12	3	1	138	< 0.01	2	< 2	< 10	14	< 10	2	18	0.34	1.12
1225025071	461	4.17	< 10	< 1	0.26	12	0.81	0.188	0.046	2.87	2	2	61	0.07	1	< 2	< 10	39	< 10	4	21	0.29	2.87
1232016119	444	2.14	< 10	< 1	0.30	19	0.47	0.098	0.053	0.45	< 2	3	60	0.12	< 1	< 2	< 10	35	< 10	4	14	0.16	0.42
1225024019	341	3.28	< 10	< 1	0.35	16	1.08	0.130	0.042	2.04	< 2	1	51	< 0.01	< 1	< 2	< 10	13	< 10	2	21	0.33	1.95
1225024040	437	2.79	< 10	< 1	0.30	15	0.83	0.194	0.049	2.05	2	1	71	0.04	4	< 2	< 10	15	< 10	3	21	0.30	1.86
1225024168	333	3.32	< 10	< 1	0.40	21	1.51	0.082	0.082	1.81	2	2	88	0.06	2	< 2	< 10	22	< 10	4	17	0.40	1.74
1232016127	579	1.60	< 10	< 1	0.32	17	0.53	0.272	0.044	0.55	2	1	104	0.01	< 1	< 2	< 10	14	< 10	2	6	0.26	0.55
1232016162	330	1.93	< 10	< 1	0.62	22	0.70	0.045	0.067	1.17	4	3	85	0.07	3	< 2	< 10	20	< 10	3	13	0.51	1.10
1232016037	217	1.56	< 10	< 1	0.49	18	0.70	0.093	0.051	0.91	< 2	1	65	0.07	2	< 2	< 10	17	< 10	2	17	0.29	0.90
1225024038	467	2.61	< 10	< 1	0.33	16	1.14	0.120	0.059	1.48	2	2	61	0.05	4	< 2	< 10	19	< 10	3	8	0.45	1.34
F001371	12	2.12	< 10	< 1	0.25	13	0.43	0.267	0.038	0.03	< 2	2	35	0.36	5	2	< 10	50	< 10	16	34		

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS311-4 Cert																							
NBM-1 (slight fzz) Meas		42.5				8.33																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		42.5																					
NBM-1 (slight fzz) Cert		46.6																					
NBM-1 (slight fzz) Meas		42.4																					
NBM-1 (slight fzz) Cert		46.6																					
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2080	722	< 1	36	55	240	2.72	5		75	0.7	8	0.39	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2170	772	< 1	36	58	246	3.01	6		85	0.7	15	0.41	20
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2120	720	< 1	32	59	249	2.77	6		85	0.7	9	0.39	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								1.7	< 0.5	4310	853	< 1	32	77	311	2.97	7		68	0.7	18	0.40	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.7	1.0	4330	856	< 1	33	82	331	2.90	6		73	0.7	15	0.41	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 96 (Aqua Regia) Meas								10.1		> 10000				84	401							42	44
Oreas 96 (Aqua Regia) Cert								11.50		39100. 00				100	448							27.9	49.2
Oreas 96 (Aqua Regia) Meas								10.1		> 10000				77	382							34	45
Oreas 96 (Aqua Regia) Cert								11.50		39100. 00				100	448							27.9	49.2
Oreas 96 (Aqua Regia) Meas								10.3		> 10000				89	419							< 2	44
Oreas 96 (Aqua Regia) Cert								11.50		39100. 00				100	448							27.9	49.2
Oreas 621 (Aqua Regia) Meas								61.9	284	3330	532	13	18	> 5000	> 10000	1.82	71			0.5	5	1.63	28

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								62.8	272	3380	507	12	23	> 5000	> 10000	1.67	70			0.5	4	1.56	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								63.7	279	3490	525	12	23	> 5000	> 10000	1.77	72			0.5	4	1.61	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								64.6	279	3480	500	12	25	> 5000	> 10000	1.79	75			0.6	< 2	1.61	27
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 45f (Aqua Regia) Meas										328	161	< 1	230	8	24	7.02			127	0.9	6	0.06	38
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 238 (Fire Assay) Meas								3000															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3100															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3030															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3100															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3040															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3010															
OREAS 238 (Fire Assay) Cert								3030															
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
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GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS316-3 Meas																							
GS316-3 Cert																							
Oreas E1336 (Fire Assay) Meas							529																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							494																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							505																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							504																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							490																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							494																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							493																
Oreas E1336 (Fire Assay) Cert							510																
1232014081 Orig								< 0.2	< 0.5	24	370	2	27	< 2	92	2.07	< 2	< 10	106	< 0.5	3	1.55	9
1232014081 Dup								< 0.2	< 0.5	23	366	2	26	< 2	88	2.04	< 2	< 10	106	< 0.5	< 2	1.53	10
1225012209 Orig							1700																
1225012209 Dup							1520																
1225020310 Orig																							
1225020310 Dup																							
1232014142 Orig								0.2	0.9	26	626	2	38	< 2	286	2.24	5	< 10	93	< 0.5	3	1.66	9
1232014142 Dup								< 0.2	0.8	27	650	2	40	< 2	297	2.34	7	< 10	95	< 0.5	3	1.73	9
1225012015 Orig							51																
1225012015 Dup							52																
1225012199 Orig																							
1225012199 Dup																							
1225012024 Orig							258																
1225012024 Dup							255																
1232014149 Orig																							
1232014149 Dup																							
1225020151 Orig								1.9	2.3	88	517	2	21	8	578	2.85	22	< 10	23	< 0.5	4	1.43	11
1225020151 Dup								2.0	1.9	92	517	2	21	7	571	2.84	23	< 10	22	< 0.5	5	1.43	12
1225020172 Orig																							
1225020172 Dup																							
1232014065 Orig							32																
1232014065 Dup							36																

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1232015129 Orig	6.97	29.2	22.2	10.7	2.72																		
1232015129 Dup	6.97	29.2	22.2	10.7	2.73																		
1232015043 Orig								1.0	< 0.5	29	551	2	33	15	74	1.75	24	< 10	53	< 0.5	< 2	1.12	12
1232015043 Dup								1.0	< 0.5	29	553	2	33	15	75	1.77	25	< 10	57	< 0.5	< 2	1.13	11
1225021039 Orig							72																
1225021039 Dup							72																
1225021281 Orig																							
1225021281 Dup																							
1225021119 Orig							282																
1225021119 Dup							304																
1232015071 Orig																							
1232015071 Dup																							
1225016037 Orig								1.5	< 0.5	239	531	6	19	< 2	119	2.70	11	< 10	52	< 0.5	11	0.94	7
1225016037 Dup								1.4	< 0.5	243	545	6	21	3	121	2.83	11	< 10	50	< 0.5	11	0.97	8
1225016300 Orig																							
1225016300 Dup																							
1225025001 Orig							62																
1225025001 Dup							64																
1225018065 Orig																							
1225018065 Dup																							
1225016351 Orig							298	0.5	1.3	143	465	3	23	3	416	2.23	28	< 10	35	< 0.5	3	0.68	9
1225016351 Dup							316	0.5	1.5	145	479	3	23	3	424	2.34	30	< 10	32	< 0.5	2	0.70	9
1225018091 Orig							788																
1225018091 Dup							866																
1225010081 Orig	105	2.99	-102	114	0.0263																		
1225010081 Dup	105	2.99	-102	114	0.0263																		
1225013258 Orig																							
1225013258 Dup																							
1232015048 Orig								0.3	< 0.5	25	467	3	39	4	77	1.68	4	< 10	86	< 0.5	< 2	1.42	12
1232015048 Dup								0.2	< 0.5	26	463	3	38	6	76	1.68	5	< 10	87	< 0.5	< 2	1.42	11
1225013469 Orig																							
1225013469 Dup																							
1225010110 Orig							123																
1225010110 Dup							105																
1225010016 Orig								0.8	6.3	42	341	3	31	21	1590	1.10	70	< 10	28	< 0.5	< 2	0.35	13
1225010016 Dup								0.8	6.8	43	349	2	28	21	1640	1.17	74	< 10	28	< 0.5	< 2	0.36	13
1225018004 Orig								0.4	0.6	74	517	3	28	6	128	1.59	8	< 10	53	< 0.5	2	1.22	9
1225018004 Dup								0.4	< 0.5	77	526	3	29	2	128	1.63	10	< 10	54	< 0.5	3	1.22	10
1225018138 Orig																							
1225018138 Dup																							
1232016250 Orig							57																
1232016250 Dup							58																
1232016290 Orig							35																
1232016290 Dup							50																
1232016105 Orig								1.6	< 0.5	14	542	2	22	25	81	2.98	17	< 10	64	< 0.5	2	1.83	6
1232016105 Dup								1.7	< 0.5	15	546	2	23	25	81	2.99	19	< 10	63	< 0.5	3	1.84	6
1225015006 Orig																							
1225015006 Dup																							
1232016119 Orig																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1232016119 Dup																							
1225024038 Orig	35.4	22.4	-13.0	41.0	0.546																		
1225024038 Dup	35.4	22.5	-12.9	41.0	0.548																		
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	43	4.73	< 10		0.44	35	1.20	0.033	0.058	0.31	2	3	15			< 2	< 10	32	< 10	19	24		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	43	5.19	< 10		0.48	38	1.25	0.036	0.063	0.36	3	4	16			< 2	< 10	35	< 10	20	25		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	42	4.95	< 10		0.47	37	1.28	0.036	0.058	0.36	3	4	15			< 2	< 10	33	< 10	18	21		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 923 (AQUA REGIA) Meas	39	5.85	< 10		0.40	34	1.30		0.058	0.65	2	4	14			< 2	< 10	33	< 10	18	29		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	39	5.86	< 10		0.42	36	1.44		0.058	0.69	3	4	14			< 2	< 10	34	< 10	18	25		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 96 (Aqua Regia) Meas										3.55	7												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										3.75	7												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										3.66	6												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 621 (Aqua Regia) Meas	15	3.37	< 10	3	0.32	19	0.39	0.171	0.033	4.64	98	2	19			< 2	< 10	11	< 10	7	58		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	26	3.08	< 10	3	0.32	19	0.39	0.172	0.031	4.23	107	2	19			< 2	< 10	11	< 10	7	59		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Regia) Cert																							
Oreas 621 (Aqua Regia) Meas	24	3.29	< 10	5	0.33	20	0.40	0.178	0.033	4.50	99	2	20			< 2	< 10	11	< 10	7	58		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	29	3.28	< 10	3	0.36	20	0.43	0.188	0.031	4.53	118	2	19			< 2	< 10	12	< 10	7	61		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 45f (Aqua Regia) Meas	315	13.1	20	< 1	0.10	< 10	0.16	0.050	0.020	0.02		24	13	0.11		< 2	< 10	190		4	26		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
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OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																							0.07
GS316-3 Cert																							0.0600
GS316-3 Meas																							0.07
GS316-3 Cert																							0.0600
GS316-3 Meas																							0.06
GS316-3 Cert																							0.0600
GS316-3 Meas																							0.07
GS316-3 Cert																							0.0600
GS316-3 Meas																							0.06
GS316-3 Cert																							0.0600
GS316-3 Meas																							0.07
GS316-3 Cert																							0.0600
GS316-3 Meas																							0.06
GS316-3 Cert																							0.0600
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	ppm	ppm	ppm	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
1225021119 Dup																								
1232015071 Orig																							0.35	0.20
1232015071 Dup																							0.35	0.19
1225016037 Orig	323	4.07	< 10	1	0.33	13	1.10	0.099	0.035	1.51	3	1	46	0.05	< 1	< 2	< 10	14	< 10	2	27			
1225016037 Dup	336	4.26	< 10	2	0.34	13	1.13	0.102	0.036	1.54	2	1	47	0.05	2	< 2	< 10	15	< 10	2	27			
1225016300 Orig																							0.19	1.56
1225016300 Dup																							0.20	1.59
1225025001 Orig																								
1225025001 Dup																								
1225018065 Orig																							0.20	1.50
1225018065 Dup																							0.20	1.44
1225016351 Orig	397	2.36	< 10	< 1	0.22	12	1.30	0.129	0.035	1.55	< 2	< 1	58	0.01	1	< 2	< 10	10	< 10	2	17			
1225016351 Dup	402	2.44	< 10	< 1	0.23	12	1.33	0.133	0.036	1.61	3	< 1	60	0.01	2	< 2	< 10	11	< 10	2	14			
1225018091 Orig																								
1225018091 Dup																								
1225010081 Orig																								
1225010081 Dup																								
1225013258 Orig																							0.29	0.39
1225013258 Dup																							0.29	0.38
1232015048 Orig	579	2.32	< 10	< 1	0.30	15	0.67	0.137	0.045	0.32	2	3	80	0.11	3	< 2	< 10	31	< 10	3	16			
1232015048 Dup	585	2.32	< 10	< 1	0.30	15	0.67	0.139	0.044	0.33	< 2	3	81	0.11	2	< 2	< 10	31	< 10	3	16			
1225013469 Orig																							0.17	0.20
1225013469 Dup																							0.17	0.19
1225010110 Orig																								
1225010110 Dup																								
1225010016 Orig	508	2.34	< 10	< 1	0.22	16	0.28	0.033	0.029	2.06	6	< 1	33	< 0.01	< 1	< 2	< 10	9	< 10	2	12			
1225010016 Dup	459	2.41	< 10	< 1	0.24	17	0.29	0.035	0.031	2.16	5	< 1	34	< 0.01	< 1	< 2	< 10	9	< 10	2	12			
1225018004 Orig	534	2.39	< 10	< 1	0.31	12	0.92	0.093	0.037	0.67	2	2	34	0.04	< 1	< 2	< 10	19	< 10	2	16			
1225018004 Dup	534	2.42	< 10	< 1	0.33	12	0.94	0.097	0.037	0.68	< 2	2	34	0.04	2	< 2	< 10	20	< 10	2	16			
1225018138 Orig																							0.23	1.54
1225018138 Dup																							0.24	1.58
1232016250 Orig																								
1232016250 Dup																								
1232016290 Orig																								
1232016290 Dup																								
1232016105 Orig	474	1.30	< 10	< 1	0.32	17	0.60	0.296	0.040	0.35	3	1	110	0.01	< 1	< 2	< 10	15	< 10	2	9			
1232016105 Dup	493	1.32	< 10	< 1	0.33	17	0.61	0.297	0.041	0.35	3	1	110	0.01	< 1	< 2	< 10	15	< 10	2	10			
1225015006 Orig																							0.34	1.12
1225015006 Dup																							0.34	1.12
1232016119 Orig																							0.16	0.42
1232016119 Dup																							0.16	0.42
1225024038 Orig																								
1225024038 Dup																								
Method Blank																								
Method Blank																								
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Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	3	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		



Report No.: A20-10437
 Report Date: 05-Nov-20
 Date Submitted: 02-Sep-20
 Your Reference: June-July 2020 Check Assays

New Gold Inc.
 1800-Two Bentall Centre
 555 Burrard Street, Box 212
 Vancouver BC V7X 1M9
 Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

140 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2020-09-14 15:01:59
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2020-09-28 22:52:07

REPORT A20-10437

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
 Values which exceed the upper limit should be assayed for accurate numbers.
 Footnote: Sample F000726, F000748, F000726 and F000747 are insufficient.

CERTIFIED BY:

<original signed by>

Emmanuel Esemé, Ph.D.
 Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
 1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
 TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
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Report No.: A20-10437
Report Date: 05-Nov-20
Date Submitted: 02-Sep-20
Your Reference: June-July 2020 Check Assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

140 Pulp samples were submitted for analysis.

Table with 3 columns: The following analytical package(s) were requested, Testing Date, and details of packages like 11 ABA Modified Sobek Package and 4F-C, S.

REPORT A20-10437

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
Values which exceed the upper limit should be assayed for accurate numbers.
Footnote: Sample F000726, F000748, F000726 and F000747 are insufficient.

CERTIFIED BY:

<original signed by>

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

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41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
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E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A20-10437

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1225027093	175	3.12	< 10	< 1	0.65	12	0.89	0.066	0.036	2.53	< 2	1	43	< 0.01	< 1	< 2	< 10	11	< 10	2	22	0.18	2.75
F000736	12	3.06	< 10	< 1	0.21	< 10	0.51	0.284	0.057	0.06	< 2	4	39	0.45	5	< 2	< 10	92	< 10	15	26		
1225022309	393	3.48	< 10	< 1	0.42	< 10	0.62	0.099	0.031	1.90	3	1	68	0.03	1	< 2	< 10	11	< 10	2	22	0.21	1.86
1225022166	508	2.84	< 10	< 1	0.47	14	0.66	0.077	0.036	2.05	3	< 1	35	0.03	3	< 2	< 10	9	< 10	2	20	0.10	1.93
1225027081	244	2.38	< 10	< 1	0.47	12	1.31	0.259	0.033	1.38	< 2	1	85	0.01	2	< 2	< 10	15	< 10	2	21	0.21	1.44
1225022141	187	3.44	< 10	1	0.23	10	1.05	0.050	0.035	1.38	< 2	1	36	< 0.01	1	< 2	< 10	13	< 10	1	12	0.33	1.44
1225027120	351	2.20	< 10	< 1	0.35	16	1.02	0.267	0.038	1.45	2	2	101	< 0.01	< 1	< 2	< 10	15	< 10	2	19	0.20	1.45
1225022184	372	3.15	< 10	1	0.61	12	0.80	0.072	0.036	2.03	2	1	40	0.04	5	< 2	< 10	13	< 10	2	27	0.34	2.08
1232019107	438	2.14	< 10	< 1	0.43	18	0.59	0.099	0.042	0.10	3	2	43	0.12	2	< 2	< 10	23	< 10	2	16	0.51	0.10
1232019092	405	2.27	< 10	< 1	0.31	14	0.74	0.111	0.044	1.26	3	2	33	0.04	< 1	< 2	< 10	26	< 10	3	13	0.28	1.31
1232019136	68	1.94	< 10	< 1	0.32	17	0.77	0.080	0.044	0.16	< 2	2	34	0.09	2	< 2	< 10	25	< 10	3	12	0.51	0.18
1225022004	305	2.65	10	1	0.37	10	0.93	0.202	0.036	0.84	< 2	1	165	< 0.01	1	< 2	< 10	18	< 10	2	13	0.30	0.89
1225022290	308	3.54	< 10	2	0.52	< 10	0.59	0.095	0.029	2.11	2	< 1	52	0.03	2	< 2	< 10	10	< 10	2	22	0.25	2.25
1433003126	129	8.63	10	2	0.12	< 10	1.72	0.322	0.063	0.34	4	26	28	0.27	2	< 2	< 10	270	< 10	16	7	0.52	0.41
1225022213	269	3.58	< 10	2	0.32	< 10	0.52	0.115	0.031	2.15	2	< 1	78	0.02	1	< 2	< 10	9	< 10	2	20	0.22	1.48
1225027077	402	2.48	< 10	< 1	0.23	< 10	1.21	0.265	0.032	1.26	3	< 1	95	< 0.01	< 1	< 2	< 10	13	< 10	2	20	0.30	1.34
1225022372	250	3.72	< 10	2	0.24	10	0.90	0.097	0.032	1.86	3	< 1	61	0.02	2	< 2	< 10	11	< 10	2	19	0.24	1.77
1225027118	177	1.90	< 10	< 1	0.19	14	0.67	0.123	0.038	1.66	< 2	< 1	58	< 0.01	< 1	< 2	< 10	10	< 10	2	16	0.10	1.72
1225022379	35	4.22	< 10	2	0.21	13	1.55	0.062	0.044	3.06	3	2	39	0.03	6	< 2	< 10	28	< 10	5	24	0.11	3.14
1225013410	376	3.72	< 10	2	0.37	13	1.45	0.081	0.034	2.67	3	1	20	< 0.01	2	< 2	< 10	17	< 10	3	19	0.14	1.90
1225015024	195	3.24	< 10	< 1	0.39	17	1.19	0.056	0.047	3.03	< 2	1	31	< 0.01	< 1	< 2	< 10	12	< 10	2	23	0.53	2.20
1225010045	216	2.25	< 10	< 1	0.29	23	0.87	0.049	0.052	0.96	3	1	61	0.02	2	< 2	< 10	14	< 10	3	17	0.27	1.00
1225011068	417	2.47	< 10	< 1	0.12	13	0.64	0.103	0.036	1.70	2	1	34	0.02	2	< 2	< 10	15	< 10	3	17	0.19	1.76
1225015119	356	2.41	< 10	< 1	0.32	14	0.72	0.049	0.040	2.32	4	< 1	28	< 0.01	1	< 2	< 10	8	< 10	3	11	1.02	2.31
1433002103	246	2.28	< 10	< 1	0.36	13	0.89	0.150	0.037	0.34	< 2	2	54	0.10	1	< 2	< 10	24	< 10	3	15	0.38	0.35
1225013355	474	3.47	< 10	2	0.36	14	1.36	0.095	0.039	2.13	3	1	32	0.02	1	< 2	< 10	19	< 10	3	22	0.17	2.27
1225015115	262	2.52	< 10	< 1	0.41	16	0.98	0.132	0.043	1.73	3	1	55	0.03	< 1	< 2	< 10	17	< 10	3	15	0.60	1.70
1225015150	254	2.19	< 10	< 1	0.34	11	1.13	0.093	0.032	0.61	2	1	55	0.02	< 1	< 2	< 10	16	< 10	2	16	0.22	0.63
1225013224	470	4.67	< 10	1	0.22	12	1.23	0.190	0.048	3.33	3	2	67	0.06	1	< 2	< 10	34	< 10	5	19	0.29	3.54
1225015128	430	2.62	< 10	< 1	0.30	12	0.31	0.045	0.045	2.62	3	< 1	28	< 0.01	< 1	< 2	< 10	8	< 10	3	14	1.12	2.60
1225013315	347	3.46	< 10	< 1	0.38	14	1.23	0.062	0.041	2.42	3	1	27	< 0.01	< 1	< 2	< 10	14	< 10	3	24	0.15	2.59
1225013401	460	2.32	< 10	< 1	0.28	15	0.75	0.162	0.043	1.97	< 2	< 1	46	< 0.01	2	< 2	< 10	10	< 10	3	27	0.32	2.01
1225011109	522	3.21	< 10	1	0.15	22	0.93	0.155	0.054	1.49	2	2	48	< 0.01	2	< 2	< 10	20	< 10	4	19	0.24	1.60
1225013245	292	4.49	< 10	1	0.06	< 10	1.78	0.538	0.019	0.18	3	6	65	0.20	< 1	< 2	< 10	119	< 10	4	4	0.17	0.21
1225013379	414	3.16	< 10	1	0.36	20	1.12	0.122	0.042	2.75	2	1	34	0.02	1	< 2	< 10	16	< 10	3	23	0.18	2.67
1225011161	710	2.51	< 10	< 1	0.20	12	0.71	0.081	0.038	1.47	4	1	24	< 0.01	< 1	< 2	< 10	18	< 10	2	19	0.37	1.54
1225013250	417	4.41	< 10	< 1	0.50	< 10	0.99	0.059	0.033	2.75	3	2	23	0.03	3	< 2	< 10	31	< 10	2	19	0.29	2.85
1225015038	327	2.29	< 10	< 1	0.53	13	1.01	0.096	0.039	0.89	< 2	3	40	0.08	< 1	< 2	< 10	29	< 10	3	13	0.25	0.93

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas								0.4	< 0.5	68	1100	3	25	90	123	7.85	212	< 10	823	0.8	2	0.15	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.4	< 0.5	64	974	2	24	84	112	6.62	215	< 10	737	0.8	3	0.14	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.3	< 0.5	68	1020	1	25	87	114	7.10	229	< 10	783	0.8	3	0.14	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.3	0.6	64	989	1	24	83	120	6.73	229	< 10	754	0.8	2	0.13	14
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
BaSO4 Meas																							
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OREAS 98 (S by LECO) Meas																							
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GS311-4 Meas																							
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Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS311-4 Cert																							
GS311-4 Meas																							
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GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
NBM-1 (slight fzz) Meas		42.2				8.67																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		42.2				8.65																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.0																					
NBM-1 (slight fzz) Cert		46.6																					
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2080	722	< 1	36	55	240	2.72	5		75	0.7	8	0.39	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2170	772	< 1	36	58	246	3.01	6		85	0.7	15	0.41	20
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2120	720	< 1	32	59	249	2.77	6		85	0.7	9	0.39	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								1.7	< 0.5	4310	853	< 1	32	77	311	2.97	7		68	0.7	18	0.40	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.7	1.0	4330	856	< 1	33	82	331	2.90	6		73	0.7	15	0.41	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 96 (Aqua Regia) Meas								10.1		> 10000				84	401							42	44
Oreas 96 (Aqua Regia) Cert								11.50		39100. 00				100	448							27.9	49.2
Oreas 96 (Aqua								10.1		> 10000				77	382							34	45

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Regia) Meas																							
Oreas 96 (Aqua Regia) Cert								11.50		39100. 00				100	448						27.9		49.2
Oreas 96 (Aqua Regia) Meas								10.3		> 10000				89	419						< 2		44
Oreas 96 (Aqua Regia) Cert								11.50		39100. 00				100	448						27.9		49.2
Oreas 621 (Aqua Regia) Meas								61.9	284	3330	532	13	18	> 5000	> 10000	1.82	71			0.5	5	1.63	28
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								62.8	272	3380	507	12	23	> 5000	> 10000	1.67	70			0.5	4	1.56	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								63.7	279	3490	525	12	23	> 5000	> 10000	1.77	72			0.5	4	1.61	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								64.6	279	3480	500	12	25	> 5000	> 10000	1.79	75			0.6	< 2	1.61	27
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 45f (Aqua Regia) Meas										328	161	< 1	230	8	24	7.02			127	0.9	6	0.06	38
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 238 (Fire Assay) Meas							3080																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3110																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3120																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3140																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							2890																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3110																
OREAS 238 (Fire Assay) Cert							3030																
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
Oreas E1336 (Fire Assay) Meas							510																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							524																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							513																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							528																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							504																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							496																
Oreas E1336 (Fire Assay) Cert							510																
1225019137 Orig								0.6	< 0.5	74	423	< 1	15	5	53	2.26	17	< 10	32	< 0.5	5	1.17	10
1225019137 Dup								0.6	< 0.5	69	417	< 1	15	5	54	2.25	17	< 10	31	< 0.5	6	1.16	10
1225027002 Orig							127																
1225027002 Dup							138																
1324001157 Orig																							
1324001157 Dup																							
1232019316 Orig								0.6	1.1	46	500	< 1	30	13	222	1.98	12	< 10	51	< 0.5	< 2	1.63	15
1232019316 Dup								0.5	1.2	49	497	< 1	30	12	223	1.95	12	< 10	45	< 0.5	< 2	1.63	15
1232019061 Orig							< 5																
1232019061 Dup							< 5																
1324001341 Orig							739	14.5	1.3	60	1160	< 1	15	73	312	1.20	18	< 10	28	< 0.5	3	2.03	9
1324001341 Dup							680	15.3	1.5	61	1180	< 1	15	78	325	1.23	21	< 10	19	< 0.5	2	2.07	10
1324001194 Orig								0.6	< 0.5	16	399	< 1	13	9	83	2.26	21	< 10	53	< 0.5	4	1.33	10
1324001194 Dup								0.6	< 0.5	16	403	< 1	13	9	86	2.27	21	< 10	50	< 0.5	4	1.33	9
1324001016 Orig																							
1324001016 Dup																							
1324001287 Orig								7.2	3.0	54	1200	< 1	14	136	758	1.11	54	< 10	28	< 0.5	3	2.14	12
1324001287 Dup								7.5	2.9	54	1160	< 1	14	145	735	1.07	54	< 10	33	< 0.5	3	2.08	13

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1225022187 Orig																							
1225022187 Dup																							
1225027138 Orig	48.8	10.2	-38.6	53.3	0.192																		
1225027138 Dup	48.8	10.2	-38.6	53.3	0.192																		
1324001310 Orig								1.2	0.7	41	575	2	16	18	173	1.21	21	< 10	27	< 0.5	< 2	1.82	11
1324001310 Dup								1.2	0.5	39	569	2	16	16	154	1.20	21	< 10	32	< 0.5	< 2	1.80	11
1232019094 Orig																							
1232019094 Dup																							
1225016113 Orig								0.8	< 0.5	165	309	8	24	2	74	3.66	6	< 10	37	< 0.5	3	1.86	10
1225016113 Dup								0.8	< 0.5	162	306	8	23	4	73	3.64	6	< 10	40	< 0.5	2	1.83	9
1225027045 Orig								0.5	< 0.5	141	424	< 1	32	< 2	110	4.09	4	< 10	59	< 0.5	4	2.01	14
1225027045 Dup								0.6	< 0.5	143	429	< 1	32	< 2	112	4.17	3	< 10	51	< 0.5	4	2.03	14
1225022013 Orig																							
1225022013 Dup																							
1225022355 Orig							902	0.7	< 0.5	290	290	1	15	4	37	3.14	5	< 10	22	< 0.5	5	1.03	6
1225022355 Dup							1000	0.7	< 0.5	283	290	2	14	< 2	37	3.12	6	< 10	22	< 0.5	6	1.03	6
1225016258 Orig																							
1225016258 Dup																							
1225016204 Orig							226																
1225016204 Dup							230																
1433003029 Orig							23	0.4	< 0.5	69	1380	< 1	118	4	169	4.04	18	< 10	18	< 0.5	4	4.38	42
1433003029 Dup							21	0.4	0.5	70	1390	< 1	117	5	174	4.07	17	< 10	19	< 0.5	3	4.24	42
1225028022 Orig	50.6	12.7	-37.9	55.1	0.230																		
1225028022 Dup	50.6	12.6	-38.0	55.1	0.228																		
1225016198 Orig																							
1225016198 Dup																							
1225027120 Orig								0.4	< 0.5	54	231	1	17	3	80	2.72	5	< 10	74	< 0.5	4	0.98	9
1225027120 Dup								0.3	< 0.5	55	236	1	17	6	81	2.88	5	< 10	73	< 0.5	3	1.01	8
1225022004 Orig							91																
1225022004 Dup							84																
1225027118 Orig																							
1225027118 Dup																							
1225015024 Orig								3.8	< 0.5	16	836	< 1	26	30	122	1.88	89	< 10	35	< 0.5	< 2	1.94	11
1225015024 Dup								2.8	0.6	16	834	< 1	25	30	123	1.87	91	< 10	33	< 0.5	< 2	1.94	12
1225010045 Orig							186																
1225010045 Dup							185																
1225013355 Orig							124																
1225013355 Dup							137																
1225015150 Orig																							
1225015150 Dup																							
1225015128 Orig																							
1225015128 Dup																							
1225013245 Orig								< 0.2	< 0.5	125	510	1	54	< 2	49	5.39	< 2	< 10	21	< 0.5	2	3.54	23
1225013245 Dup								0.2	< 0.5	119	501	< 1	56	< 2	49	5.18	< 2	< 10	20	< 0.5	3	3.53	23
1225013250 Orig	80.6	11.2	-69.4	87.3	0.128																		
1225013250 Dup	80.6	11.5	-69.1	87.3	0.132																		
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
GS311-4 Cert																						1.11	0.54	
GS311-4 Meas																							1.11	0.55
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.11	0.52
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.12	0.56
GS311-4 Cert																							1.11	0.54
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
OREAS 922 (AQUA REGIA) Meas	43	4.73	< 10		0.44	35	1.20	0.033	0.058	0.31	2	3	15			< 2	< 10	32	< 10	19	24			
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3			
OREAS 922 (AQUA REGIA) Meas	43	5.19	< 10		0.48	38	1.25	0.036	0.063	0.36	3	4	16			< 2	< 10	35	< 10	20	25			
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3			
OREAS 922 (AQUA REGIA) Meas	42	4.95	< 10		0.47	37	1.28	0.036	0.058	0.36	3	4	15			< 2	< 10	33	< 10	18	21			
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3			
OREAS 923 (AQUA REGIA) Meas	39	5.85	< 10		0.40	34	1.30		0.058	0.65	2	4	14			< 2	< 10	33	< 10	18	29			
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5			
OREAS 923 (AQUA REGIA) Meas	39	5.86	< 10		0.42	36	1.44		0.058	0.69	3	4	14			< 2	< 10	34	< 10	18	25			
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5			
Oreas 96 (Aqua Regia) Meas										3.55	7													
Oreas 96 (Aqua Regia) Cert										4.38	4.53													
Oreas 96 (Aqua Regia) Meas										3.75	7													
Oreas 96 (Aqua Regia) Cert										4.38	4.53													
Oreas 96 (Aqua Regia) Meas										3.66	6													

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 621 (Aqua Regia) Meas	15	3.37	< 10	3	0.32	19	0.39	0.171	0.033	4.64	98	2	19			< 2	< 10	11	< 10	7	58		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	26	3.08	< 10	3	0.32	19	0.39	0.172	0.031	4.23	107	2	19			< 2	< 10	11	< 10	7	59		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	24	3.29	< 10	5	0.33	20	0.40	0.178	0.033	4.50	99	2	20			< 2	< 10	11	< 10	7	58		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	29	3.28	< 10	3	0.36	20	0.43	0.188	0.031	4.53	118	2	19			< 2	< 10	12	< 10	7	61		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 45f (Aqua Regia) Meas	315	13.1	20	< 1	0.10	< 10	0.16	0.050	0.020	0.02		24	13	0.11		< 2	< 10	190		4	26		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
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OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
GS316-3 Cert																						0.0600	0.340	
GS316-3 Meas																							0.05	0.34
GS316-3 Cert																						0.0600	0.340	
Oreas E1336 (Fire Assay) Meas																								
Oreas E1336 (Fire Assay) Cert																								
Oreas E1336 (Fire Assay) Meas																								
Oreas E1336 (Fire Assay) Cert																								
Oreas E1336 (Fire Assay) Meas																								
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Oreas E1336 (Fire Assay) Meas																								
Oreas E1336 (Fire Assay) Cert																								
Oreas E1336 (Fire Assay) Meas																								
1225019137 Orig	91	2.96	< 10	< 1	0.29	15	0.86	0.192	0.045	1.98	< 2	2	74	0.02	2	< 2	< 10	15	< 10	2	19			
1225019137 Dup	91	2.93	< 10	< 1	0.29	15	0.85	0.189	0.045	1.96	< 2	2	73	0.02	< 1	< 2	< 10	15	< 10	2	20			
1225027002 Orig																								
1225027002 Dup																								
1324001157 Orig																							0.28	2.72
1324001157 Dup																							0.26	2.84
1232019316 Orig	140	3.27	< 10	< 1	0.28	18	1.11	0.091	0.055	1.02	< 2	4	52	0.12	1	< 2	< 10	51	< 10	5	13			
1232019316 Dup	140	3.19	< 10	< 1	0.28	18	1.10	0.089	0.056	0.98	< 2	4	52	0.12	3	< 2	< 10	50	< 10	5	12			
1232019061 Orig																								
1232019061 Dup																								
1324001341 Orig	128	2.15	< 10	< 1	0.22	17	0.48	0.083	0.048	2.21	3	< 1	53	< 0.01	11	< 2	< 10	4	< 10	2	12			
1324001341 Dup	128	2.22	< 10	< 1	0.23	18	0.49	0.083	0.048	2.30	4	< 1	55	< 0.01	10	< 2	< 10	5	< 10	2	6			
1324001194 Orig	198	2.06	< 10	< 1	0.17	15	0.24	0.269	0.045	1.42	< 2	< 1	284	0.01	2	< 2	< 10	8	< 10	3	10			
1324001194 Dup	200	2.09	< 10	< 1	0.17	15	0.25	0.267	0.045	1.41	< 2	< 1	282	0.01	2	< 2	< 10	8	< 10	3	9			
1324001016 Orig																						0.32	0.77	
1324001016 Dup																						0.32	0.76	
1324001287 Orig	36	2.25	< 10	< 1	0.21	15	0.38	0.084	0.049	2.54	5	< 1	52	< 0.01	7	< 2	< 10	3	< 10	2	13			
1324001287 Dup	39	2.23	< 10	< 1	0.21	15	0.38	0.081	0.047	2.51	5	< 1	51	< 0.01	9	< 2	< 10	3	< 10	2	16			
1225022187 Orig																						0.30	1.73	
1225022187 Dup																						0.30	1.77	
1225027138 Orig																								
1225027138 Dup																								
1324001310 Orig	98	2.34	< 10	< 1	0.23	18	0.50	0.089	0.046	2.28	< 2	< 1	51	< 0.01	3	< 2	< 10	7	< 10	3	7			
1324001310 Dup	98	2.36	< 10	< 1	0.23	17	0.49	0.093	0.047	2.31	< 2	< 1	51	< 0.01	2	< 2	< 10	7	< 10	3	11			
1232019094 Orig																						0.29	1.63	
1232019094 Dup																						0.29	1.65	
1225016113 Orig	380	2.68	< 10	2	0.32	12	1.20	0.368	0.034	1.57	3	1	189	0.01	< 1	< 2	< 10	14	< 10	2	24			

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1225016113 Dup	376	2.66	< 10	1	0.32	11	1.19	0.369	0.034	1.56	2	1	189	0.01	< 1	< 2	< 10	14	< 10	2	25		
1225027045 Orig	227	4.15	< 10	2	0.36	< 10	1.25	0.339	0.030	1.20	< 2	4	46	0.10	< 1	< 2	< 10	66	< 10	3	12		
1225027045 Dup	227	4.28	< 10	2	0.36	< 10	1.29	0.340	0.030	1.24	< 2	4	46	0.10	2	< 2	< 10	66	< 10	3	12		
1225022013 Orig																						0.25	0.94
1225022013 Dup																						0.24	0.98
1225022355 Orig	344	3.44	< 10	2	0.49	11	0.59	0.123	0.032	1.75	2	< 1	82	0.03	< 1	< 2	< 10	10	< 10	2	18		
1225022355 Dup	341	3.46	< 10	< 1	0.48	10	0.59	0.120	0.033	1.73	2	< 1	80	0.03	< 1	< 2	< 10	10	< 10	2	18		
1225016258 Orig																						0.30	1.83
1225016258 Dup																						0.28	1.80
1225016204 Orig																							
1225016204 Dup																							
1433003029 Orig	98	9.66	< 10	2	0.09	< 10	2.49	0.081	0.048	1.93	4	10	48	0.06	< 1	< 2	< 10	125	< 10	9	5		
1433003029 Dup	100	9.66	< 10	2	0.09	< 10	2.52	0.087	0.047	1.71	6	10	48	0.07	< 1	< 2	< 10	128	< 10	9	6		
1225028022 Orig																							
1225028022 Dup																							
1225016198 Orig																						0.22	1.25
1225016198 Dup																						0.22	1.19
1225027120 Orig	348	2.17	< 10	< 1	0.35	16	1.02	0.266	0.038	1.43	3	2	99	< 0.01	< 1	< 2	< 10	15	< 10	2	19	0.20	1.45
1225027120 Dup	354	2.24	< 10	< 1	0.35	15	1.02	0.268	0.038	1.47	2	2	102	< 0.01	1	< 2	< 10	15	< 10	2	19	0.19	1.45
1225022004 Orig																							
1225022004 Dup																							
1225027118 Orig																						0.10	1.63
1225027118 Dup																						0.10	1.81
1225015024 Orig	196	3.23	< 10	< 1	0.39	17	1.20	0.056	0.047	3.05	3	1	31	< 0.01	< 1	< 2	< 10	13	< 10	2	23		
1225015024 Dup	195	3.25	< 10	< 1	0.39	17	1.18	0.055	0.047	3.01	< 2	1	31	< 0.01	< 1	< 2	< 10	12	< 10	2	23		
1225010045 Orig																							
1225010045 Dup																							
1225013355 Orig																							
1225013355 Dup																							
1225015150 Orig																						0.22	0.64
1225015150 Dup																						0.22	0.63
1225015128 Orig																						1.13	2.60
1225015128 Dup																						1.12	2.60
1225013245 Orig	290	4.58	< 10	1	0.06	< 10	1.79	0.544	0.019	0.18	3	6	66	0.20	1	< 2	< 10	120	< 10	4	4		
1225013245 Dup	293	4.40	< 10	2	0.06	< 10	1.77	0.532	0.018	0.18	3	6	65	0.19	< 1	< 2	< 10	117	< 10	4	4		
1225013250 Orig																							
1225013250 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	3	< 10	< 1	< 10	< 1	< 1		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		



Report No.: A20-11585
Report Date: 11-Nov-20
Date Submitted: 24-Sep-20
Your Reference: 2020 August Check Assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

187 Pulp samples were submitted for analysis.

Table with 3 columns: Analytical package requested, Method, and Testing Date. Rows include 1A2-50-Tbay, 1A3-50-Tbay, and 1E3-Tbay NewGold.

REPORT A20-11585

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:
<original signed by>

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Emmanuel Eseme , Ph.D.
Quality Control Coordinator

Report No.: A20-11585
Report Date: 11-Nov-20
Date Submitted: 24-Sep-20
Your Reference: 2020 August Check Assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

187 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek Package	Acid Base Accounting	2020-10-27 21:30:53
4F-C, S	Infrared	2020-10-05 21:08:26

REPORT A20-11585

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

<original signed by>

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

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Results

Activation Laboratories Ltd.

Report: A20-11585

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1230059164	182	3.35	-179	200	0.0168	6.53	462	6.8	6.4	382	727	1	23	387	1290	1.39	287	< 10	< 10	< 0.5	8	0.19	8
1230059218	141	5.81	-136	156	0.0373	7.45	956	19.0	19.2	447	982	< 1	23	545	4230	1.46	364	< 10	< 10	< 0.5	7	0.32	8
GC20-0818-004							540	12.4	1.7	561	323	< 1	33	102	318	1.19	489	< 10	< 10	< 0.5	11	0.11	10
1230059182	30.6	4.50	-26.1	36.4	0.123	8.30	161	1.3	0.8	26	1350	< 1	16	23	195	0.92	95	< 10	28	< 0.5	< 2	0.25	9
1230059016	35.2	13.6	-21.6	41.3	0.330	8.45	269	1.6	1.3	53	1060	1	21	56	310	1.59	48	< 10	25	< 0.5	< 2	0.81	11
1324018169	54.3	14.7	-39.6	60.6	0.242	8.48	549	1.3	< 0.5	433	306	2	17	< 2	40	2.76	9	< 10	21	< 0.5	6	1.25	7
GC20-0825-001							310	5.9	< 0.5	18	1230	< 1	36	33	132	1.90	85	< 10	14	< 0.5	< 2	0.32	14
1230058111	29.4	12.8	-16.5	38.3	0.335	8.52	77	0.7	18.8	141	410	< 1	30	12	3690	3.37	18	< 10	31	< 0.5	< 2	2.08	18
GC20-0816-019							1080	5.2	15.2	82	1280	< 1	25	156	3160	1.88	305	< 10	< 10	< 0.5	2	0.16	9
1230059328	70.0	33.5	-36.4	80.5	0.416	8.64	266	9.2	3.4	36	1640	< 1	25	381	993	1.63	80	< 10	15	< 0.5	< 2	1.39	11
1230059391	122	3.61	-118	134	0.0269	7.65	347	6.4	7.7	221	1320	2	23	342	1730	1.52	225	< 10	< 10	< 0.5	4	0.19	10
GC20-0808-007							251	0.9	5.7	92	614	< 1	17	3	1580	2.07	14	< 10	11	< 0.5	3	0.77	12
GC20-0839-001							558	11.7	25.2	113	2350	< 1	35	164	5940	3.11	97	< 10	14	< 0.5	< 2	0.47	12
1230059342	25.2	5.49	-19.7	30.3	0.181	8.63	142	2.4	1.0	27	1400	< 1	15	42	303	1.02	97	< 10	30	< 0.5	< 2	0.34	7
GC20-0802-001							134	0.3	< 0.5	22	467	< 1	9	4	80	1.97	14	< 10	14	< 0.5	2	0.62	6
GC20-0803-006							72	0.8	< 0.5	199	420	7	17	2	126	2.17	7	< 10	10	< 0.5	5	1.21	11
GC20-0840-008							892	6.1	24.5	66	1230	< 1	25	122	5380	1.95	167	< 10	13	< 0.5	< 2	0.17	12
1230059344	31.2	5.52	-25.7	35.5	0.155	8.82	67	0.6	0.5	27	993	< 1	16	30	154	1.95	29	< 10	31	< 0.5	< 2	0.52	11
GC20-0806-003							62	0.2	< 0.5	11	589	1	23	3	70	2.82	8	< 10	13	< 0.5	3	1.18	10
1324018137	65.3	8.24	-57.1	70.7	0.116	8.21	165	1.4	< 0.5	311	307	< 1	19	2	99	2.03	12	< 10	17	< 0.5	7	0.78	9
F001592							1060	3.1	< 0.5	30	270	< 1	9	17	44	1.33	< 2	< 10	45	< 0.5	< 2	0.83	10
GC20-0862-003							220	5.3	< 0.5	52	1410	< 1	11	53	110	0.92	54	< 10	25	< 0.5	< 2	0.18	6
GC20-0832-025							201	9.1	21.4	78	1290	< 1	26	359	5210	1.99	164	< 10	< 10	< 0.5	< 2	0.63	10
GC20-0864-002							83	2.1	< 0.5	25	1310	< 1	20	17	66	1.44	56	< 10	28	< 0.5	< 2	2.11	7
GC20-0866-019							142	3.3	< 0.5	18	1590	< 1	23	13	62	2.06	82	< 10	24	< 0.5	< 2	2.77	11
GC20-0819-024							11	< 0.2	< 0.5	24	549	2	20	< 2	97	1.12	< 2	< 10	115	< 0.5	< 2	1.32	7
GC20-0863-018							146	4.0	< 0.5	16	1360	< 1	24	14	45	1.98	92	< 10	18	< 0.5	< 2	2.86	12
GC20-0820-019							545	5.8	9.1	71	1610	< 1	26	46	1910	2.35	224	< 10	11	< 0.5	2	0.15	9
GC20-0867-007							171	5.5	< 0.5	14	515	< 1	25	13	55	0.97	98	< 10	10	< 0.5	< 2	0.70	11
GC20-0867-020							175	5.2	< 0.5	43	1270	< 1	26	23	119	2.24	33	< 10	19	< 0.5	< 2	2.20	12
1324014136	62.6	10.6	-52.0	67.7	0.157	8.64	84	0.6	< 0.5	22	322	< 1	18	6	87	1.91	24	< 10	15	< 0.5	6	1.12	8
GC20-0844-005							227	8.9	< 0.5	56	1590	< 1	32	32	199	2.16	114	< 10	18	< 0.5	< 2	1.98	12
1324008135	62.0	14.5	-47.5	66.8	0.217	8.59	87	0.8	< 0.5	16	326	< 1	19	6	56	2.41	20	< 10	14	< 0.5	8	1.25	9
GC20-0865-016							367	7.3	< 0.5	20	1610	< 1	31	34	135	2.55	40	< 10	20	< 0.5	< 2	1.11	13
1231048113	18.4	58.9	40.5	23.6	2.50	9.07	16	1.2	< 0.5	32	648	< 1	18	7	84	1.07	41	< 10	39	< 0.5	< 2	2.43	6
1324020131	35.1	24.6	-10.5	44.1	0.558	9.05	172	1.2	0.7	34	835	< 1	20	27	164	2.51	25	< 10	26	< 0.5	3	1.65	11
1324020235	34.0	30.7	-3.30	41.7	0.738	8.95	241	1.4	0.6	52	912	< 1	20	17	174	2.34	23	< 10	28	< 0.5	3	1.75	9
GC20-0868-009							253	7.3	< 0.5	29	2580	< 1	26	31	107	2.09	116	< 10	24	< 0.5	< 2	2.90	10
GC20-0833-024							154	7.4	1.6	37	1660	2	15	49	349	3.05	41	< 10	24	< 0.5	2	2.39	8
1324014307	77.5	7.35	-70.1	95.6	0.0769	8.11	498	2.4	28.2	211	1130	< 1	20	65	6320	2.25	59	< 10	14	< 0.5	5	0.42	18
GC20-0872-001							81	2.5	< 0.5	22	863	< 1	23	14	97	1.65	35	< 10	16	< 0.5	< 2	0.95	13
F001591							2020	4.5	< 0.5	23	213	17	7	21	38	1.23	< 2	< 10	43	< 0.5	< 2	0.77	5
1230058279	3.75	12.3	8.54	3.67	3.34	8.43	10	0.2	< 0.5	112	660	< 1	58	< 2	52	5.01	< 2	< 10	19	< 0.5	3	3.34	24
1230058056	59.5	19.8	-39.7	66.2	0.299	8.38	657	0.9	4.8	38	372	< 1	37	11	1060	1.36	30	< 10	11	< 0.5	< 2	1.15	15
1324008257	5.63	22.1	16.4	5.51	4.00	9.50	20	< 0.2	0.5	13	564	< 1	14	< 2	159	1.59	3	< 10	62	< 0.5	< 2	0.87	8
1324008223	19.7	8.60	-11.1	19.3	0.446	8.74	41	0.2	< 0.5	33	489	< 1	15	4	167	3.24	3	17	39	< 0.5	4	1.19	8
GC20-0239-004							1190	1.0	< 0.5	526	219	< 1	13	< 2	26	2.12	6	< 10	24	< 0.5	13	0.77	6
GC20-0812-005							511	1.7	5.0	54	1020	< 1	17	74	1200	1.48	187	< 10	11	< 0.5	2	0.36	10
GC20-0810-008							93	1.3	< 0.5	17	963	1	13	40	124	1.10	118	< 10	25	< 0.5	< 2	1.53	8

Results

Activation Laboratories Ltd.

Report: A20-11585

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
GC20-0811-023							273	5.6	2.3	16	1780	< 1	23	184	517	2.13	98	< 10	18	< 0.5	< 2	1.91	10	
GC20-0811-001							160	3.6	3.7	41	718	< 1	16	322	875	1.03	125	< 10	22	< 0.5	3	0.28	10	
GC20-0139-016							152	0.4	< 0.5	111	321	2	11	< 2	35	3.01	5	< 10	27	< 0.5	4	0.83	8	
1230058004	57.9	50.0	-7.83	83.3	0.601	8.81	2220	4.1	58.3	197	600	< 1	22	26	> 10000	1.25	121	< 10	13	< 0.5	< 2	1.94	12	
1230058100	54.1	24.4	-29.8	68.3	0.357	8.43	555	2.7	18.8	187	494	1	20	131	4540	1.14	156	< 10	14	< 0.5	< 2	1.23	9	
1324008233	3.13	8.39	5.26	3.06	2.74	9.01	7	0.2	< 0.5	113	556	< 1	50	< 2	68	5.17	< 2	< 10	12	< 0.5	2	3.49	23	
1230058095	40.4	1.74	-38.7	45.9	0.0380	8.07	303	1.0	0.6	21	58	< 1	15	25	180	0.94	178	< 10	20	< 0.5	< 2	0.06	8	
1230058172	31.9	8.75	-23.1	37.1	0.236	7.70	46	0.8	0.6	24	408	< 1	14	26	225	1.45	104	< 10	24	0.6	4	0.23	7	
GC20-0814-001							340	7.3	1.6	616	733	4	29	123	339	1.88	128	< 10	12	< 0.5	6	0.71	9	
GC20-0816-001							314	0.6	< 0.5	15	669	< 1	8	18	88	1.57	78	< 10	32	< 0.5	< 2	0.24	6	
F001599							3330	2.5	< 0.5	36	251	15	12	15	40	1.31	3	< 10	50	< 0.5	< 2	0.85	9	
GC20-0240-005							1500	0.4	< 0.5	195	237	< 1	16	2	26	1.68	10	< 10	< 10	< 0.5	6	0.37	6	
1324008391	22.5	5.27	-17.2	25.4	0.207	8.75	32	0.3	1.2	39	551	< 1	11	16	419	3.51	7	< 10	35	< 0.5	4	1.20	10	
GC20-0240-011							304	0.3	< 0.5	84	332	2	12	< 2	35	3.44	8	< 10	28	< 0.5	9	1.28	9	
1324008356	45.6	10.1	-35.6	53.3	0.189	8.44	698	1.3	< 0.5	114	353	2	14	4	41	1.89	10	< 10	15	< 0.5	8	0.81	9	
1433043322	68.5	60.0	-8.54	80.2	0.748	8.63	553	3.2	0.5	70	1020	< 1	54	< 2	204	3.41	8	< 10	10	< 0.5	2	2.73	25	
1230058002	56.3	32.3	-24.0	64.3	0.503	8.80	716	1.4	10.3	34	716	< 1	18	28	2360	0.98	113	< 10	13	< 0.5	2	1.33	10	
1433004003	80.0	106	25.8	95.6	1.11	8.30	77	0.7	< 0.5	55	1450	< 1	127	< 2	126	4.51	10	< 10	14	< 0.5	< 2	4.15	42	
1324008405	85.3	15.1	-70.2	91.0	0.165	8.27	103	0.4	< 0.5	27	482	< 1	16	10	73	1.96	5	10	13	< 0.5	4	0.97	9	
1324008319	84.3	6.60	-77.7	88.5	0.0745	8.29	282	0.4	< 0.5	16	242	< 1	18	4	35	1.36	14	< 10	11	< 0.5	4	0.36	9	
1324017191	50.3	8.39	-41.9	55.4	0.151	8.54	236	0.7	0.6	100	354	< 1	14	2	182	2.35	18	< 10	21	< 0.5	4	0.87	10	
1324008457	67.4	13.7	-53.7	71.7	0.191	8.41	190	0.3	< 0.5	56	546	< 1	18	11	79	2.75	20	< 10	19	< 0.5	2	1.59	11	
1324008308	3.12	29.9	26.7	6.13	4.88	9.15	14	< 0.2	< 0.5	17	566	< 1	23	2	95	1.64	3	< 10	63	< 0.5	2	1.19	9	
1230058219	65.6	34.0	-31.6	88.2	0.386	8.26	485	2.2	19.4	108	974	< 1	36	111	4400	2.36	121	< 10	13	< 0.5	< 2	2.23	18	
1433004040	16.0	17.9	1.85	20.5	0.872	8.85	197	0.6	< 0.5	175	695	< 1	14	12	112	2.53	3	< 10	42	< 0.5	3	0.97	7	
1433004038	56.3	117	60.2	80.8	1.44	8.21	377	2.3	0.5	86	1590	< 1	117	< 2	152	4.25	14	< 10	16	< 0.5	2	4.57	36	
1433004077	107	86.9	-20.6	135	0.642	8.23	322	2.4	2.4	159	1360	< 1	132	< 2	541	4.64	28	< 10	13	< 0.5	3	3.41	41	
GC20-0228-014							588	0.3	< 0.5	133	212	< 1	6	< 2	22	2.36	5	< 10	25	< 0.5	4	0.81	5	
1324008429	84.2	12.0	-72.1	90.7	0.133	8.47	102	0.4	< 0.5	44	490	< 1	14	3	56	1.88	4	< 10	14	< 0.5	3	0.85	8	
GC20-0130-020							88	0.2	< 0.5	17	609	< 1	17	< 2	67	2.47	7	< 10	55	< 0.5	4	1.50	11	
1230058215	46.8	49.6	2.84	59.1	0.839	8.80	141	0.9	16.7	37	768	< 1	38	27	3270	1.36	107	< 10	19	< 0.5	< 2	1.89	13	
1433004157	104	78.7	-25.1	122	0.645	8.19	186	2.0	< 0.5	39	1300	< 1	55	2	155	3.60	24	< 10	11	< 0.5	2	3.27	23	
F001598							985	1.7	< 0.5	50	230	11	9	19	40	1.22	< 2	< 10	45	< 0.5	< 2	0.80	7	
1433004072	30.0	62.4	32.4	39.2	1.59	8.62	82	0.6	< 0.5	61	1050	< 1	88	< 2	140	3.73	7	< 10	36	< 0.5	< 2	2.86	30	
1324008503	3.75	5.30	1.55	3.67	1.44	9.23	7	< 0.2	< 0.5	104	387	< 1	44	< 2	41	5.43	< 2	< 10	17	< 0.5	< 2	3.61	20	
1324008474	14.1	20.8	6.74	13.8	1.51	9.27	56	0.3	< 0.5	52	562	< 1	20	4	72	2.14	3	< 10	64	< 0.5	3	1.44	7	
1324008550	91.2	4.55	-86.7	97.7	0.0466	8.04	112	0.7	< 0.5	8	398	< 1	17	10	38	3.20	17	< 10	14	< 0.5	5	1.30	8	
GC20-0236-010							444	0.6	< 0.5	107	282	< 1	7	< 2	22	2.69	4	< 10	26	< 0.5	6	0.85	9	
1230058206	5.31	11.8	6.52	5.21	2.27	8.60	19	0.3	< 0.5	119	564	< 1	45	3	89	5.41	119	5	< 10	24	< 0.5	< 2	3.74	22
GC20-0238-001							414	0.7	< 0.5	309	220	< 1	12	< 2	21	2.34	6	< 10	21	< 0.5	9	1.08	8	

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1230058095	236	1.72	< 10	< 1	0.30	14	0.27	0.036	0.004	1.56	3	< 1	26	< 0.01	< 1	< 2	< 10	5	< 10	1	7	0.04	1.50
1230058172	218	1.75	< 10	< 1	0.25	17	0.41	0.050	0.024	1.32	< 2	< 1	46	< 0.01	2	< 2	< 10	6	< 10	1	7	0.08	1.21
GC20-0814-001	512	4.30	< 10	2	0.41	14	0.94	0.079	0.050	3.51	4	2	34	0.03	< 1	< 2	< 10	22	< 10	3	17		
GC20-0816-001	124	1.53	< 10	< 1	0.49	19	0.53	0.030	0.052	1.09	< 2	< 1	9	0.01	< 1	< 2	< 10	8	< 10	2	7		
F001599	14	1.99	< 10	< 1	0.26	12	0.51	0.212	0.048	0.05	< 2	3	30	0.25	3	< 2	< 10	58	< 10	17	8		
GC20-0240-005	443	3.97	< 10	< 1	0.37	12	0.52	0.049	0.030	2.36	3	< 1	24	0.03	< 1	< 2	< 10	6	< 10	2	18		
1324008391	167	2.38	< 10	< 1	0.15	18	0.86	0.107	0.049	0.80	< 2	1	129	0.02	< 1	< 2	< 10	15	< 10	3	2	0.07	0.83
GC20-0240-011	246	2.47	< 10	< 1	0.15	11	0.86	0.173	0.034	0.91	2	1	97	< 0.01	< 1	< 2	< 10	12	< 10	2	6		
1324008356	215	3.16	< 10	< 1	0.30	13	0.91	0.086	0.038	2.59	2	< 1	40	0.03	< 1	< 2	< 10	10	< 10	2	12	0.13	1.74
1433043322	194	6.39	< 10	< 1	0.22	< 10	1.97	0.275	0.038	2.82	3	9	78	0.10	< 1	< 2	< 10	138	< 10	6	9	0.84	2.62
1230058002	295	2.18	< 10	< 1	0.54	12	0.16	0.023	0.040	2.19	< 2	< 1	49	0.01	1	< 2	< 10	7	< 10	2	10	0.46	2.10
1433004003	305	8.29	< 10	2	0.26	< 10	2.85	0.403	0.038	2.83	3	8	99	0.09	< 1	< 2	< 10	126	< 10	5	6	1.86	3.12
1324008405	257	3.37	< 10	< 1	0.27	14	1.18	0.049	0.037	3.07	2	< 1	37	0.02	1	< 2	< 10	9	< 10	2	17	0.14	2.97
1324008319	337	3.29	< 10	< 1	0.30	12	0.79	0.040	0.037	2.93	2	< 1	17	< 0.01	2	< 2	< 10	8	< 10	2	19	0.15	2.89
1324017191	183	2.62	< 10	< 1	0.34	13	1.28	0.136	0.036	1.88	2	< 1	51	0.03	1	< 2	< 10	10	< 10	3	12	0.18	1.81
1324008457	112	3.14	< 10	< 1	0.16	19	1.24	0.120	0.048	2.32	< 2	2	98	0.03	< 1	< 2	< 10	18	< 10	3	8	0.32	2.34
1324008308	500	2.25	< 10	< 1	0.47	13	1.20	0.069	0.034	0.20	3	2	28	0.05	< 1	< 2	< 10	22	< 10	2	6	0.43	0.20
1230058219	264	4.17	< 10	2	0.27	< 10	1.04	0.208	0.029	2.87	4	7	51	0.09	< 1	< 2	< 10	52	< 10	3	11	0.48	2.88
1433004040	244	2.81	< 10	< 1	0.20	14	1.48	0.118	0.036	0.66	< 2	1	47	< 0.01	< 1	< 2	< 10	16	< 10	2	7	0.31	0.67
1433004038	279	7.81	< 10	< 1	0.21	< 10	2.71	0.316	0.035	2.43	5	10	85	0.09	< 1	< 2	< 10	114	< 10	7	6	2.27	2.64
1433004077	271	9.39	< 10	2	0.26	< 10	2.45	0.314	0.042	3.98	4	11	77	0.13	3	< 2	< 10	139	15	8	9	1.48	4.42
GC20-0228-014	138	2.71	< 10	< 1	0.17	10	0.55	0.140	0.033	1.21	< 2	< 1	80	0.03	< 1	< 2	< 10	7	< 10	2	8		
1324008429	251	3.25	< 10	< 1	0.30	16	1.12	0.049	0.039	3.02	< 2	< 1	35	0.01	1	< 2	< 10	8	< 10	2	18	0.22	2.96
GC20-0130-020	241	2.41	< 10	< 1	0.26	15	1.31	0.178	0.040	0.67	< 2	1	86	0.04	3	< 2	< 10	17	< 10	3	8		
1230058215	270	2.45	< 10	< 1	0.67	17	0.79	0.026	0.057	1.96	2	3	93	0.03	1	< 2	< 10	22	< 10	3	9	0.66	1.93
1433004157	326	6.58	< 10	2	0.75	31	2.07	0.232	0.069	3.87	2	8	70	0.11	5	< 2	< 10	89	< 10	8	14	1.39	3.98
F001598	13	1.81	< 10	< 1	0.23	14	0.44	0.197	0.045	0.05	< 2	2	30	0.23	3	< 2	< 10	52	< 10	18	8		
1433004072	275	6.32	< 10	2	0.15	< 10	2.24	0.247	0.046	1.22	3	6	78	0.07	< 1	< 2	< 10	105	< 10	6	7	0.94	1.28
1324008503	275	3.79	< 10	3	0.04	< 10	1.36	0.643	0.020	0.10	3	4	67	0.18	< 1	< 2	< 10	113	< 10	4	3	0.16	0.12
1324008474	402	2.19	< 10	< 1	0.39	13	1.06	0.154	0.037	0.47	< 2	2	82	0.05	2	< 2	< 10	20	< 10	2	4	0.37	0.45
1324008550	275	3.51	< 10	< 1	0.18	13	1.18	0.190	0.034	3.28	< 2	< 1	139	< 0.01	1	< 2	< 10	9	< 10	2	24	0.08	3.19
GC20-0236-010	161	4.03	< 10	2	0.30	12	0.68	0.143	0.033	2.10	3	< 1	80	0.03	1	< 2	< 10	9	< 10	3	25		
1230058206	224	4.58	< 10	1	0.09	< 10	1.78	0.668	0.021	0.16	3	8	72	0.17	1	< 2	< 10	131	< 10	5	3	0.21	0.17
GC20-0238-001	368	3.59	< 10	< 1	0.35	< 10	0.56	0.132	0.033	2.47	< 2	< 1	75	0.02	1	< 2	< 10	7	< 10	2	23		

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
GC20-0918-001	
GC20-0911-002	
1223001001	
GC20-0922-001	
GC20-0917-002	
GC20-0916-011	
GC20-0915-002	
GC20-0188-021	
1231047017	
GC20-0925-001	
1223001208	
1231046222	
1231046155	
1223001012	
1323002216	
1323002245	27.6
1323003146	
1323002165	
1323003153	
GC20-0928-013	
F001602	
1324021049	
GC20-0141-018	
1323002080	
1333099062	
1324021135	
1323002084	
1324021079	
1324021181	
1323003018	
1323003042	
1323002041	
1323002009	
1323003001	
1323002058	
GC20-0249-003	
1324021030	
1323002077	
F001601	
1324021246	
1333099150	
1333099096	
1333099076	
1231046117	
1231046049	
GC20-0185-015	
1324021217	
1324021227	
1333099045	
GC20-0159-018	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
1323002117	
1323002141	
GC20-0938-007	
1231046122	
1324021154	
GC20-0940-012	
1323002091	
GC20-0941-002	
F001600	
1324008212	
1230058016	
GC20-0813-001	
1230058074	
1230058502	
1324008206	
1324008169	
GC20-0814-018	
1230059212	
1324018252	
1230058522	
1230059143	
1230059174	
1230059148	
1230059094	
1324018241	
1324018276	
F001594	
1324008025	
1230059112	
1230059099	
1324008031	
1230059001	
1324008089	
1230059049	
GC20-0817-001	
1324008056	
1324008104	
1324008001	
1324008117	
1230058290	
1324008146	
1324008063	
1230058079	
1230058283	
1324008015	
1324008199	
F001593	
1230059318	
1230059164	
1230059218	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
GC20-0818-004	
1230059182	
1230059016	
1324018169	
GC20-0825-001	
1230058111	
GC20-0816-019	
1230059328	
1230059391	
GC20-0808-007	
GC20-0839-001	
1230059342	
GC20-0802-001	
GC20-0803-006	
GC20-0840-008	
1230059344	
GC20-0806-003	
1324018137	
F001592	
GC20-0862-003	
GC20-0832-025	
GC20-0864-002	
GC20-0866-019	
GC20-0819-024	
GC20-0863-018	
GC20-0820-019	
GC20-0867-007	
GC20-0867-020	
1324014136	
GC20-0844-005	
1324008135	
GC20-0865-016	
1231048113	
1324020131	
1324020235	
GC20-0868-009	
GC20-0833-024	
1324014307	
GC20-0872-001	
F001591	
1230058279	
1230058056	
1324008257	
1324008223	
GC20-0239-004	
GC20-0812-005	
GC20-0810-008	
GC20-0811-023	
GC20-0811-001	
GC20-0139-016	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
1230058004	
1230058100	
1324008233	
1230058095	
1230058172	
GC20-0814-001	
GC20-0816-001	
F001599	
GC20-0240-005	
1324008391	
GC20-0240-011	
1324008356	
1433043322	
1230058002	
1433004003	
1324008405	
1324008319	
1324017191	
1324008457	
1324008308	
1230058219	
1433004040	
1433004038	
1433004077	
GC20-0228-014	
1324008429	
GC20-0130-020	
1230058215	
1433004157	
F001598	
1433004072	
1324008503	
1324008474	
1324008550	
GC20-0236-010	
1230058206	
GC20-0238-001	

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
SGR-1b Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
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GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
NBM-1 (slight fzz) Meas		42.9				8.38																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		42.1				8.37																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		42.3																					
NBM-1 (slight fzz) Cert		46.6																					
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2150	761	< 1	33	57	248	2.79	4		83	0.7	10	0.40	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2310	795	< 1	33	64	259	2.95	7		83	0.8	8	0.41	20
OREAS 922 (AQUA REGIA) Meas								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Cert																							
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2130	771	< 1	34	61	249	2.85	5		78	0.7	7	0.40	18
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								2.8	< 0.5	4320	869	< 1	32	80	331	2.83	7		68	0.7	25	0.40	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.6	< 0.5	4510	903	< 1	32	83	345	3.00	8		69	0.7	27	0.42	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.6	< 0.5	4160	868	< 1	31	82	318	2.83	6		56	0.6	24	0.40	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 621 (Aqua Regia) Meas								65.9	286	3460	537	12	24	> 5000	> 10000	1.73	75			0.6	8	1.31	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								69.5	298	3590	553	13	25	> 5000	> 10000	1.78	79			0.6	9	1.58	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								66.7	290	3470	542	12	23	> 5000	> 10000	1.75	76			0.6	10	1.61	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 229b (Fire Assay) Meas																							
OREAS 229b (Fire Assay) Cert																							
OREAS 45f (Aqua Regia) Meas										341	168	< 1	220	8	26	7.21			137	1.0	3	0.07	40
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										342	171	< 1	223	7	26	7.38			137	1.0	3	0.07	39
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										342	171	< 1	231	9	26	7.37			140	1.0	2	0.07	36
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 238 (Fire Assay) Meas								3170															
OREAS 238 (Fire Assay) Cert								3030															

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 238 (Fire Assay) Meas							3140																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3190																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3120																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3110																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3110																
OREAS 238 (Fire Assay) Cert							3030																
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
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GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
OREAS 257b (Fire Assay) Meas																							
OREAS 257b (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas							524																
Oreas E1336 (Fire Assay) Cert							510																

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Oreas E1336 (Fire Assay) Meas							522																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							522																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							526																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							506																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							513																
Oreas E1336 (Fire Assay) Cert							510																
1231047017 Orig							21																
1231047017 Dup							21																
1231046222 Orig								0.5	0.6	21	761	4	31	< 2	255	1.70	9	< 10	55	< 0.5	< 2	1.50	11
1231046222 Dup								0.4	1.0	20	744	1	20	< 2	255	1.68	7	< 10	49	< 0.5	< 2	1.49	10
1323002245 Orig																							
1323002245 Dup																							
1323002165 Orig																							
1323002165 Dup																							
1323003153 Orig							574																
1323003153 Dup							518																
GC20-0141-018 Orig							1120																
GC20-0141-018 Dup							1060																
1324021135 Orig								0.6	< 0.5	160	297	3	15	3	68	1.18	13	< 10	17	< 0.5	4	0.86	11
1324021135 Dup								0.9	< 0.5	150	298	3	15	3	68	1.19	14	< 10	18	< 0.5	4	0.86	9
1323003042 Orig																							
1323003042 Dup																							
1324021246 Orig								0.3	< 0.5	131	503	< 1	49	< 2	50	5.03	< 2	< 10	18	< 0.5	2	3.28	23
1324021246 Dup								0.3	< 0.5	126	495	< 1	50	< 2	50	4.96	< 2	< 10	18	< 0.5	< 2	3.26	23
1231046117 Orig							16																
1231046117 Dup							15																
GC20-0938-007 Orig								< 0.2	< 0.5	11	254	< 1	11	2	53	3.00	< 2	< 10	17	< 0.5	2	0.70	7
GC20-0938-007 Dup								< 0.2	< 0.5	11	248	< 1	11	3	52	2.90	2	< 10	16	< 0.5	3	0.68	7
1231046122 Orig							8																
1231046122 Dup							8																
GC20-0941-002 Orig							86																
GC20-0941-002 Dup							82																
1324008212 Orig																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1324008212 Dup																							
1324008206 Orig	20.1	22.3	2.23	25.1	0.889																		
1324008206 Dup	20.1	21.8	1.66	25.1	0.866																		
1230059148 Orig																							
1230059148 Dup																							
1324018276 Orig								0.7	< 0.5	125	348	1	18	< 2	77	2.54	7	< 10	27	< 0.5	3	0.73	9
1324018276 Dup								0.6	< 0.5	125	348	1	17	< 2	76	2.48	6	< 10	28	< 0.5	2	0.73	9
1230059112 Orig							158																
1230059112 Dup							174																
1230059049 Orig																							
1230059049 Dup																							
1324008117 Orig							170																
1324008117 Dup							143																
1230058290 Orig								1.2	11.9	96	977	< 1	10	12	2220	1.79	30	< 10	22	< 0.5	< 2	0.51	7
1230058290 Dup								1.3	12.0	93	983	< 1	11	11	2260	1.82	29	< 10	22	< 0.5	< 2	0.52	8
1324008063 Orig						8.49																	
1324008063 Dup						8.48																	
1230058079 Orig							411																
1230058079 Dup							436																
1324008199 Orig																							
1324008199 Dup																							
1230059016 Orig								1.6	1.3	54	1060	1	21	56	308	1.60	48	< 10	24	< 0.5	< 2	0.81	11
1230059016 Dup								1.7	1.2	53	1060	1	21	55	311	1.58	49	< 10	27	< 0.5	< 2	0.81	11
1230059342 Orig																							
1230059342 Dup																							
GC20-0803-006 Orig							74																
GC20-0803-006 Dup							70																
GC20-0806-003 Orig								0.2	< 0.5	11	582	2	23	2	70	2.77	10	< 10	12	< 0.5	3	1.17	10
GC20-0806-003 Dup								0.2	< 0.5	11	595	1	23	3	71	2.86	7	< 10	14	< 0.5	3	1.18	10
GC20-0819-024 Orig							11																
GC20-0819-024 Dup							10																
GC20-0867-020 Orig							169																
GC20-0867-020 Dup							180																
1231048113 Orig								1.3	< 0.5	32	650	< 1	18	7	85	1.09	41	< 10	42	< 0.5	< 2	2.43	6
1231048113 Dup								1.2	< 0.5	31	646	< 1	18	7	84	1.06	40	< 10	36	< 0.5	< 2	2.43	6
1324020235 Orig	34.0	30.7	-3.35	41.7	0.737																		
1324020235 Dup	34.0	30.8	-3.25	41.7	0.739																		
1324008257 Orig																							
1324008257 Dup																							
GC20-0810-008 Orig								1.3	< 0.5	18	960	1	13	40	124	1.09	118	< 10	29	< 0.5	< 2	1.53	8
GC20-0810-008 Dup								1.3	0.5	17	965	1	13	40	124	1.10	118	< 10	20	< 0.5	4	1.54	8

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
GXR-6 Meas	78	5.48	20	1	1.12	10	0.39	0.138	0.033	0.01	5	20	30		< 1	< 2	< 10	167	< 10	5	8			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
GXR-6 Meas	78	5.80	20	3	1.14	11	0.40	0.139	0.034	0.01	4	21	30		< 1	< 2	< 10	170	< 10	5	8			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
GXR-6 Meas	75	5.53	20	2	1.08	10	0.38	0.142	0.033	0.01	3	20	30		< 1	< 2	< 10	165	< 10	5	9			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
BaSO4 Meas																							14.0	
BaSO4 Cert																								14.0
BaSO4 Meas																								13.7
BaSO4 Cert																								14.0
BaSO4 Meas																								13.9
BaSO4 Cert																								14.0
BaSO4 Meas																								14.0
BaSO4 Cert																								14.0
BaSO4 Meas																								14.1
BaSO4 Cert																								14.0
BaSO4 Meas																								14.2
BaSO4 Cert																								14.0
BaSO4 Meas																								14.0
BaSO4 Cert																								14.0
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BaSO4 Cert																								14.0
BaSO4 Meas																								14.0
BaSO4 Cert																								14.0
BaSO4 Meas																								14.1
BaSO4 Cert																								14.0
BaSO4 Meas																								14.1
BaSO4 Cert																								14.0
SGR-1b Meas																							27.5	1.52
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.5	1.54
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.5	1.53
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.6	1.54
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.8	1.62
SGR-1b Cert																							28	1.53
SGR-1b Meas																							28.0	1.61
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.5	1.59
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.7	1.62
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.4	1.64
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.6	1.66
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.3	1.65

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
SGR-1b Cert																						28	1.53	
SGR-1b Meas																							27.4	1.60
SGR-1b Cert																							28	1.53
GS311-4 Meas																							1.10	0.56
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.10	0.57
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.11	0.56
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.10	0.57
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.09	0.54
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.10	0.55
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.08	0.54
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.08	0.54
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.08	0.55
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.08	0.56
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.07	0.56
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.12	0.55
GS311-4 Cert																							1.11	0.54
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
OREAS 922 (AQUA REGIA) Meas	45	4.87	< 10		0.48	38	1.32	0.038	0.059	0.35	3	4	16			< 2	< 10	35	< 10	20	15			
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3			
OREAS 922 (AQUA REGIA) Meas	48	5.27	< 10		0.49	40	1.39	0.038	0.063	0.38	3	4	17			< 2	< 10	37	< 10	21	18			
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3			
OREAS 922 (AQUA REGIA) Meas	44	5.13	< 10		0.47	38	1.30	0.038	0.061	0.37	2	4	16			< 2	< 10	35	< 10	20	10			
OREAS 922	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3			

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
(AQUA REGIA) Cert																							
OREAS 923 (AQUA REGIA) Meas	41	5.73	< 10		0.42	36	1.43		0.059	0.65	3	4	14			< 2	< 10	36	< 10	19	29		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	43	6.13	< 10		0.42	37	1.48		0.060	0.70	3	4	15			< 2	< 10	36	< 10	19	28		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	40	5.86	< 10		0.39	34	1.38		0.057	0.66	2	4	14			< 2	< 10	34	< 10	18	14		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 621 (Aqua Regia) Meas	32	3.22	10	4	0.38	18	0.43	0.185	0.032	4.15	117	2	16			3	< 10	13	< 10	7	70		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	34	3.34	< 10	4	0.39	20	0.45	0.194	0.033	4.62	127	2	18			< 2	< 10	13	< 10	8	73		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	29	3.35	< 10	4	0.37	19	0.42	0.182	0.032	4.63	95	2	18			< 2	< 10	12	< 10	7	50		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 229b (Fire Assay) Meas																							
OREAS 229b (Fire Assay) Cert																							
OREAS 45f (Aqua Regia) Meas	339	13.5	20	< 1	0.11	11	0.18	0.054	0.020	0.02		27	14	0.10		< 2	< 10	196		5	12		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 45f (Aqua Regia) Meas	337	14.1	20	< 1	0.11	11	0.18	0.053	0.020	0.02		27	15	0.10		< 2	< 10	200		5	13		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 45f (Aqua Regia) Meas	336	14.1	20	< 1	0.10	11	0.18	0.058	0.021	0.02		28	14	0.11		< 2	< 10	199		5	15		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.05	0.37
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.36
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.36
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.37
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.04	0.32
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
OREAS 257b (Fire Assay) Meas																							
OREAS 257b (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
Oreas E1336 (Fire Assay) Cert																								
Oreas E1336 (Fire Assay) Meas																								
Oreas E1336 (Fire Assay) Cert																								
Oreas E1336 (Fire Assay) Meas																								
Oreas E1336 (Fire Assay) Cert																								
1231047017 Orig																								
1231047017 Dup																								
1231046222 Orig	204	2.52	< 10	< 1	0.51	18	0.89	0.096	0.050	0.65	< 2	2	43	0.11	1	< 2	< 10	27	< 10	3	6			
1231046222 Dup	202	2.44	< 10	< 1	0.51	18	0.89	0.095	0.050	0.65	< 2	2	42	0.11	3	< 2	< 10	27	< 10	3	6			
1323002245 Orig																								
1323002245 Dup																								
1323002165 Orig																							0.44	2.53
1323002165 Dup																							0.43	2.47
1323003153 Orig																								
1323003153 Dup																								
GC20-0141-018 Orig																								
GC20-0141-018 Dup																								
1324021135 Orig	229	2.77	< 10	< 1	0.17	15	0.83	0.067	0.038	2.25	2	1	34	< 0.01	3	< 2	< 10	12	< 10	3	14			
1324021135 Dup	228	2.78	< 10	< 1	0.17	15	0.83	0.067	0.039	2.26	< 2	1	34	< 0.01	3	< 2	< 10	12	< 10	3	14			
1323003042 Orig																							0.37	0.67
1323003042 Dup																							0.37	0.68
1324021246 Orig	200	4.61	< 10	1	0.04	< 10	1.80	0.502	0.020	0.16	3	6	71	0.21	1	< 2	< 10	121	< 10	4	3			
1324021246 Dup	197	4.48	< 10	2	0.04	< 10	1.76	0.486	0.019	0.15	< 2	6	69	0.21	< 1	< 2	< 10	119	< 10	4	3			
1231046117 Orig																							0.48	0.38
1231046117 Dup																							0.48	0.38
GC20-0938-007 Orig	117	1.74	< 10	< 1	0.05	18	0.94	0.063	0.042	0.13	< 2	1	48	< 0.01	1	< 2	< 10	15	< 10	1	2			
GC20-0938-007 Dup	113	1.70	< 10	< 1	0.05	17	0.92	0.061	0.040	0.13	< 2	1	47	< 0.01	< 1	< 2	< 10	14	< 10	1	2			
1231046122 Orig																								
1231046122 Dup																								
GC20-0941-002 Orig																								
GC20-0941-002 Dup																								
1324008212 Orig																							0.20	1.36
1324008212 Dup																							0.20	1.33
1324008206 Orig																								
1324008206 Dup																								
1230059148 Orig																							0.27	3.27
1230059148 Dup																							0.26	3.26
1324018276 Orig	330	2.89	< 10	< 1	0.22	12	1.23	0.201	0.034	1.37	< 2	1	92	< 0.01	< 1	< 2	< 10	14	< 10	2	12			
1324018276 Dup	326	2.87	< 10	< 1	0.22	12	1.22	0.197	0.033	1.32	2	1	91	< 0.01	< 1	< 2	< 10	14	< 10	2	12			
1230059112 Orig																								
1230059112 Dup																								
1230059049 Orig																							0.42	0.72
1230059049 Dup																							0.42	0.73

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1324008117 Orig																							
1324008117 Dup																							
1230058290 Orig	159	2.27	< 10	< 1	0.32	17	0.73	0.034	0.044	1.35	2	< 1	16	< 0.01	< 1	< 2	< 10	11	< 10	2	5		
1230058290 Dup	161	2.29	< 10	< 1	0.33	17	0.74	0.035	0.044	1.36	< 2	< 1	16	< 0.01	1	< 2	< 10	11	< 10	2	6		
1324008063 Orig																							
1324008063 Dup																							
1230058079 Orig																							
1230058079 Dup																							
1324008199 Orig																						0.35	1.12
1324008199 Dup																						0.34	1.15
1230059016 Orig	323	2.56	< 10	< 1	0.37	20	0.69	0.057	0.051	1.42	3	1	29	0.02	< 1	2	< 10	16	< 10	3	6		
1230059016 Dup	348	2.58	< 10	< 1	0.37	20	0.69	0.054	0.051	1.41	3	1	29	0.02	< 1	< 2	< 10	16	< 10	3	8		
1230059342 Orig																						0.20	0.98
1230059342 Dup																						0.19	1.01
GC20-0803-006 Orig																							
GC20-0803-006 Dup																							
GC20-0806-003 Orig	484	3.32	< 10	< 1	0.18	15	0.98	0.181	0.040	3.21	3	1	71	0.02	1	< 2	< 10	12	< 10	3	12		
GC20-0806-003 Dup	498	3.41	< 10	< 1	0.18	16	1.00	0.185	0.041	3.28	2	1	73	0.02	< 1	< 2	< 10	12	< 10	3	13		
GC20-0819-024 Orig																							
GC20-0819-024 Dup																							
GC20-0867-020 Orig																							
GC20-0867-020 Dup																							
1231048113 Orig	423	1.39	< 10	< 1	0.45	15	0.26	0.041	0.039	0.80	< 2	< 1	33	0.02	1	< 2	< 10	6	< 10	2	6		
1231048113 Dup	416	1.38	< 10	< 1	0.43	15	0.26	0.039	0.038	0.79	3	< 1	32	0.02	1	< 2	< 10	6	< 10	2	3		
1324020235 Orig																							
1324020235 Dup																							
1324008257 Orig																						0.30	0.18
1324008257 Dup																						0.33	0.19
GC20-0810-008 Orig	175	1.30	< 10	< 1	0.38	16	0.52	0.032	0.046	1.20	< 2	< 1	16	< 0.01	1	< 2	< 10	7	< 10	1	6		
GC20-0810-008 Dup	175	1.31	< 10	< 1	0.38	16	0.52	0.031	0.045	1.20	< 2	< 1	16	< 0.01	1	3	< 10	7	< 10	1	4		
GC20-0811-001 Orig																							
GC20-0811-001 Dup																							
GC20-0240-005 Orig																							
GC20-0240-005 Dup																							
1324008391 Orig	168	2.37	< 10	< 1	0.15	18	0.85	0.107	0.049	0.80	< 2	1	131	0.02	< 1	< 2	< 10	15	< 10	3	2		
1324008391 Dup	165	2.39	< 10	< 1	0.15	18	0.86	0.106	0.050	0.81	3	1	127	0.02	< 1	< 2	< 10	15	< 10	2	2		
1433043322 Orig																							
1433043322 Dup																							
1230058002 Orig																						0.47	2.16
1230058002 Dup																						0.46	2.04
1433004077 Orig	271	9.22	< 10	2	0.25	< 10	2.41	0.308	0.041	3.96	4	11	76	0.12	2	< 2	< 10	137	15	7	8		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1433004077 Dup	270	9.55	10	1	0.26	< 10	2.50	0.320	0.042	4.00	4	11	78	0.13	4	< 2	< 10	141	15	8	9		
1324008429 Orig																						0.21	2.95
1324008429 Dup																						0.22	2.98
1324008550 Orig																							
1324008550 Dup																							
1230058206 Orig																							
1230058206 Dup																							
Method Blank																							
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Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.014	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
GXR-6 Meas	
GXR-6 Cert	
GXR-6 Meas	
GXR-6 Cert	
GXR-6 Meas	
GXR-6 Cert	
BaSO4 Meas	
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SGR-1b Meas	
SGR-1b Cert	
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SGR-1b Cert	
SGR-1b Meas	
SGR-1b Cert	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
SGR-1b Meas	
SGR-1b Cert	
SGR-1b Meas	
SGR-1b Cert	
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
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GS311-4 Meas	
GS311-4 Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 922 (AQUA REGIA)	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 923 (AQUA REGIA) Meas	
OREAS 923 (AQUA REGIA) Cert	
OREAS 923 (AQUA REGIA) Meas	
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OREAS 923 (AQUA REGIA) Meas	
OREAS 923 (AQUA REGIA) Cert	
Oreas 621 (Aqua Regia) Meas	
Oreas 621 (Aqua Regia) Cert	
Oreas 621 (Aqua Regia) Meas	
Oreas 621 (Aqua Regia) Cert	
Oreas 621 (Aqua Regia) Meas	
Oreas 621 (Aqua Regia) Cert	
OREAS 229b (Fire Assay) Meas	12.4
OREAS 229b (Fire Assay) Cert	11.9
OREAS 45f (Aqua Regia) Meas	
OREAS 45f (Aqua Regia) Cert	
OREAS 45f (Aqua Regia) Meas	
OREAS 45f (Aqua Regia) Cert	
OREAS 45f (Aqua Regia) Meas	
OREAS 45f (Aqua Regia) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
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GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
OREAS 257b (Fire Assay) Meas	13.5
OREAS 257b (Fire Assay) Cert	14.2
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
Oreas E1336 (Fire Assay) Cert	
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	
Oreas E1336 (Fire Assay) Meas	
1231047017 Orig	
1231047017 Dup	
1231046222 Orig	
1231046222 Dup	
1323002245 Orig	27.7
1323002245 Dup	27.5
1323002165 Orig	
1323002165 Dup	
1323003153 Orig	
1323003153 Dup	
GC20-0141-018 Orig	
GC20-0141-018 Dup	
1324021135 Orig	
1324021135 Dup	
1323003042 Orig	
1323003042 Dup	
1324021246 Orig	
1324021246 Dup	
1231046117 Orig	
1231046117 Dup	
GC20-0938-007 Orig	
GC20-0938-007 Dup	
1231046122 Orig	
1231046122 Dup	
GC20-0941-002 Orig	
GC20-0941-002 Dup	
1324008212 Orig	
1324008212 Dup	
1324008206 Orig	
1324008206 Dup	
1230059148 Orig	
1230059148 Dup	
1324018276 Orig	
1324018276 Dup	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
1230059112 Orig	
1230059112 Dup	
1230059049 Orig	
1230059049 Dup	
1324008117 Orig	
1324008117 Dup	
1230058290 Orig	
1230058290 Dup	
1324008063 Orig	
1324008063 Dup	
1230058079 Orig	
1230058079 Dup	
1324008199 Orig	
1324008199 Dup	
1230059016 Orig	
1230059016 Dup	
1230059342 Orig	
1230059342 Dup	
GC20-0803-006 Orig	
GC20-0803-006 Dup	
GC20-0806-003 Orig	
GC20-0806-003 Dup	
GC20-0819-024 Orig	
GC20-0819-024 Dup	
GC20-0867-020 Orig	
GC20-0867-020 Dup	
1231048113 Orig	
1231048113 Dup	
1324020235 Orig	
1324020235 Dup	
1324008257 Orig	
1324008257 Dup	
GC20-0810-008 Orig	
GC20-0810-008 Dup	
GC20-0811-001 Orig	
GC20-0811-001 Dup	
GC20-0240-005 Orig	
GC20-0240-005 Dup	
1324008391 Orig	
1324008391 Dup	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
1433043322 Orig	
1433043322 Dup	
1230058002 Orig	
1230058002 Dup	
1433004077 Orig	
1433004077 Dup	
1324008429 Orig	
1324008429 Dup	
1324008550 Orig	
1324008550 Dup	
1230058206 Orig	
1230058206 Dup	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	< 0.02
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	



Report No.: A20-11587
Report Date: 24-Nov-20
Date Submitted: 24-Sep-20
Your Reference: 2020 August Check Assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

188 Pulp samples were submitted for analysis.

Table with 3 columns: Analytical package(s) requested, Test Name, Testing Date. Includes rows for ABA Modified Sobek Package and 4F-C, S.

REPORT A20-11587

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

<original signed by>

ACTIVATION LABORATORIES LTD.
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

Report No.: A20-11587
Report Date: 24-Nov-20
Date Submitted: 24-Sep-20
Your Reference: 2020 August Check Assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

188 Pulp samples were submitted for analysis.

Table with 3 columns: Analytical package requested, Method, and Testing Date. Rows include 1A2-50-Tbay, 1A3-50-Tbay, and 1E3-Tbay NewGold.

REPORT A20-11587

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

<original signed by>

Emmanuel Eseme, Ph.D.
Quality Control Coordinator

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E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A20-11587

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GC20-0894-013							1420	0.9	5.3	34	172	<1	21	30	1370	0.77	37	<10	26	<0.5	3	0.44	13
GC20-0896-020							7	<0.2	<0.5	121	480	<1	45	<2	52	5.07	<2	<10	18	<0.5	2	3.40	20
GC20-0893-018							5	<0.2	<0.5	118	487	<1	47	<2	44	5.29	<2	<10	19	<0.5	3	3.61	20
GC20-0897-011							6	0.2	<0.5	120	533	<1	50	<2	44	4.91	<2	<10	24	<0.5	<2	3.36	23
1223001083	4.20	31.6	27.4	53.0	0.596	8.59	85	1.6	1.3	43	1060	2	20	82	276	2.22	32	<10	27	<0.5	4	2.02	10
GC20-0893-002							10	0.2	<0.5	125	477	<1	56	<2	47	4.96	<2	<10	19	<0.5	2	3.40	22
GC20-0896-003							133	0.6	<0.5	7	571	<1	11	21	72	0.70	28	<10	26	<0.5	3	1.51	8
1324020156	20.4	16.1	-4.22	60.9	0.265	8.25	127	0.5	<0.5	111	535	3	26	<2	66	1.40	6	<10	27	<0.5	<2	1.05	11
1223001303	14.2	37.4	23.2	46.5	0.803	8.65	175	0.6	3.3	45	1100	<1	19	44	671	1.86	45	<10	33	<0.5	<2	1.91	9
1223001105	23.4	13.2	-10.2	42.3	0.312	8.36	40	0.6	<0.5	19	219	<1	12	10	96	1.39	21	<10	34	<0.5	2	0.79	8
1223001137	18.9	12.9	-6.07	30.3	0.425	8.59	51	0.4	<0.5	41	389	<1	11	13	45	2.04	21	<10	32	<0.5	3	1.29	8
1223001116	55.7	28.3	-27.4	68.3	0.414	8.50	2570	8.7	3.5	65	866	<1	17	232	816	0.96	51	<10	24	<0.5	3	1.17	10
F001606							755	4.5	<0.5	28	242	<1	9	12	37	1.13	<2	<10	39	<0.5	<2	0.65	10
GC20-0899-008							87	2.1	0.8	13	876	<1	16	105	197	0.64	54	<10	28	<0.5	<2	2.37	10
GC20-0897-014							9	0.3	<0.5	175	490	<1	48	<2	46	5.05	<2	<10	22	<0.5	3	3.36	22
1223001067	62.9	7.88	-55.0	68.9	0.114	8.20	80	0.8	0.9	30	392	1	13	16	219	2.11	13	<10	29	<0.5	2	1.26	9
1231048049	3.02	26.9	23.9	6.43	4.18	9.11	7	0.3	<0.5	16	533	<1	18	<2	117	1.28	4	<10	83	<0.5	<2	1.29	10
1324015096	44.4	14.0	-30.3	49.9	0.281	8.52	194	1.0	<0.5	78	430	1	15	4	66	1.81	17	<10	31	<0.5	4	1.24	8
GC20-0900-017							936	0.7	<0.5	172	609	<1	11	4	140	2.16	13	<10	26	<0.5	5	0.62	10
1231048032	13.2	23.4	10.1	16.2	1.44	9.02	176	4.5	<0.5	18	708	<1	15	21	76	2.43	36	<10	41	<0.5	<2	2.11	7
1231047125	7.08	23.4	16.3	10.1	2.32	9.24	12	0.3	0.5	15	500	<1	15	5	119	1.14	4	<10	54	<0.5	<2	1.12	8
1324020082	28.8	25.2	-3.61	33.1	0.763	9.33	35	0.7	<0.5	210	319	2	11	5	41	0.76	9	<10	30	<0.5	<2	1.00	8
1324020195	58.0	10.8	-47.2	62.8	0.172	8.86	183	0.4	1.6	54	557	1	14	2	405	1.56	9	<10	29	<0.5	<2	0.98	13
GC20-0906-001							120	1.2	3.0	207	417	2	15	7	588	1.67	14	<10	26	<0.5	6	0.85	10
GC20-0903-001							85	0.4	<0.5	58	379	<1	13	3	114	1.40	4	<10	21	<0.5	6	0.60	9
GC20-0907-002							292	3.3	0.6	1020	585	<1	13	11	125	1.94	17	<10	21	<0.5	42	1.04	9
1223007028	14.2	12.4	-1.73	19.0	0.655	8.95	31	0.3	<0.5	23	473	<1	13	5	75	2.68	15	<10	33	<0.5	3	1.47	13
1223007054	22.5	9.79	-12.7	26.0	0.376	8.68	44	0.5	<0.5	46	531	<1	11	5	141	2.48	20	<10	33	<0.5	3	1.15	10
GC20-0900-018							160	0.7	0.6	73	695	<1	12	4	196	2.41	7	<10	27	<0.5	4	0.75	10
1223001075	18.7	16.5	-2.29	22.0	0.746	8.93	34	0.6	<0.5	27	470	1	11	6	81	1.86	22	<10	34	<0.5	4	1.29	10
GC20-0902-001							51	0.4	<0.5	32	463	<1	11	3	92	1.78	12	<10	20	<0.5	4	0.63	10
1324020089	76.2	14.1	-62.1	81.8	0.173	8.69	2210	0.4	1.4	70	643	<1	20	3	404	1.56	8	<10	23	<0.5	5	0.78	13
1223001050	28.4	7.23	-21.2	27.9	0.260	8.60	36	0.4	<0.5	10	540	<1	8	10	64	2.58	10	<10	30	<0.5	2	1.21	8
1324015076	19.4	22.7	3.35	19.0	1.20	9.01	147	0.7	<0.5	136	609	<1	23	3	116	2.16	6	<10	76	<0.5	3	1.42	11
GC20-0901-025							283	0.7	4.0	40	1160	<1	14	5	991	2.56	24	<10	35	<0.5	2	1.58	10
GC20-0901-008							110	2.7	<0.5	675	321	4	14	11	83	1.60	4	<10	20	<0.5	29	0.59	11
F001608							960	1.8	<0.5	64	240	15	10	23	43	1.21	<2	<10	44	<0.5	<2	0.78	8
123037258	9.38	5.31	-4.06	9.19	0.578	8.40	6	0.2	<0.5	11	326	<1	11	5	71	2.05	4	<10	39	0.5	2	0.48	7
1324013133	67.8	6.28	-61.5	75.0	0.0837	8.26	357	2.0	5.4	150	941	1	25	4	1390	2.53	19	<10	21	<0.5	3	0.78	16
1324013131	58.4	8.88	-49.5	66.2	0.134	8.49	376	1.0	7.4	239	639	2	21	4	1710	2.36	17	<10	29	<0.5	4	0.94	12
GC20-0205-009							505	0.7	<0.5	350	357	<1	10	<2	28	2.07	4	<10	36	<0.5	12	0.71	7
GC20-0203-005							619	0.9	<0.5	457	248	<1	10	2	25	2.32	6	<10	20	<0.5	22	1.08	9

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
GC20-0234-018	
1324008552	
1324017123	
1324017169	
1324017159	
1324008298	
1324008480	
1230058109	
1230058275	
GC20-0242-001	
GC20-0241-019	
GC20-0241-020	
1433004192	
GC20-0237-014	
F001597	
1324018221	
GC20-0824-001	
GC20-0822-001	
GC20-0828-002	142
GC20-0807-001	
GC20-0823-005	
GC20-0830-004	
GC20-0833-008	
GC20-0848-001	
GC20-0831-001	
GC20-0829-009	
1230059307	
GC20-0845-002	
GC20-0847-001	
1324018196	
1324018167	
GC20-0834-013	
GC20-0838-013	
GC20-0850-009	
GC20-0838-004	
GC20-0851-014	
1230059270	
F001596	
GC20-0827-015	
GC20-0851-003	
GC20-0155-015	
GC20-0852-005	
GC20-0852-001	
GC20-0864-019	
GC20-0853-001	
GC20-0852-022	
GC20-0854-001	
GC20-0860-001	
GC20-0860-017	
GC20-0832-016	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
1230059295	
GC20-0858-001	
1230059260	
1230059282	
GC20-0858-020	
GC20-0818-016	
GC20-0856-001	
GC20-0809-012	
GC20-0861-001	
GC20-0815-018	
GC20-0815-016	
GC20-0859-014	
GC20-0855-026	
GC20-0855-025	
F001595	
GC20-0226-001	
GC20-0230-002	
GC20-0229-001	
GC20-0232-018	
1324013022	
GC20-0228-001	
1324013052	
1324013007	
1433004382	
1324013015	
GC20-0227-005	
1324013077	
1324013004	
1231037115	
GC20-0801-014	
GC20-0801-011	
GC20-0230-019	
GC20-0232-001	15.3
1324008523	
GC20-0234-001	
F001603	
GC20-0251-001	
1324021254	
GC20-0255-001	
1323004101	
1323004139	
1323004157	
1323004122	
1323004178	
1230060070	
GC20-0252-003	
GC20-0257-011	
GC20-0253- 009FD	
GC20-0256-013	
1324021093	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
1230060142	
1324022130	
1323004094	
1323004024	
1323004060	
1324021029	
1324022108	
1230060122	
1230060082	
1230060068	
F001604	
GC20-0870-006	
1324014186	
GC20-0873-007	
1324014252	
1324014414	
1324017527	
GC20-0874-009	
1235003014	
GC20-0874-026	
1235003134	
1324020061	
GC20-0882-025	
GC20-0876-001	
GC20-0876-009	
1324014386	
GC20-0887-013	
GC20-0878-012	
1324014452	
1324014110	
1324014334	
1324014222	
GC20-0171-018	
GC20-0879-014	
F001605	
GC20-0888-012	
GC20-0194-014	
GC20-0889-001	
1324020036	
GC20-0889-018	
GC20-0890-001	
GC20-0891-001	
1223001109	
1324020187	
1223001307	
GC20-0892-022	
GC20-0894-013	
GC20-0896-020	
GC20-0893-018	
GC20-0897-011	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
1223001083	
GC20-0893-002	
GC20-0896-003	
1324020156	
1223001303	
1223001105	
1223001137	
1223001116	
F001606	
GC20-0899-008	
GC20-0897-014	
1223001067	
1231048049	
1324015096	
GC20-0900-017	
1231048032	
1231047125	
1324020082	
1324020195	
GC20-0906-001	
GC20-0903-001	
GC20-0907-002	
1223007028	
1223007054	
GC20-0900-018	
1223001075	
GC20-0902-001	
1324020089	
1223001050	
1324015076	
GC20-0901-025	
GC20-0901-008	
F001608	
123037258	
1324013133	
1324013131	
GC20-0205-009	
GC20-0203-005	

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
SGR-1b Cert																							
SGR-1b Meas																							
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SGR-1b Cert																							
GS311-4 Meas																							
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GS311-4 Meas																							
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GS311-4 Meas																							
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GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
NBM-1 (slight fzz) Meas		42.0				8.50																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		42.8				8.08																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		42.1																					
NBM-1 (slight fzz) Cert		46.6																					
NBM-1 (slight fzz) Meas		42.1																					
NBM-1 (slight fzz) Cert		46.6																					
OREAS 922 (AQUA REGIA) Meas								1.1	< 0.5	2270	785	< 1	38	55	241	2.59	4		75	0.7	9	0.38	19
OREAS 922 (AQUA REGIA)								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Cert																							
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2230	788	< 1	37	57	245	2.75	5		73	0.7	12	0.37	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								1.7	< 0.5	4380	884	< 1	35	76	309	2.64	8		58	0.6	22	0.37	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.9	< 0.5	4290	881	< 1	34	75	310	2.75	6		53	0.6	26	0.37	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 621 (Aqua Regia) Meas								64.1	271	3470	536	12	25	> 5000	> 10000	1.61	73			0.6	6	1.47	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								66.7	284	3610	562	12	27	> 5000	> 10000	1.68	78			0.6	6	1.51	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 229b (Fire Assay) Meas																							
OREAS 229b (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas								3030															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3100															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3050															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3040															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3100															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3150															
OREAS 238 (Fire Assay) Cert								3030															
GS316-3 Meas																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1324017169 Dup																							
1230058275 Orig							104																
1230058275 Dup							101																
1433004192 Orig								2.9	3.9	125	1390	< 1	113	4	537	4.81	18	< 10	31	< 0.5	4	3.53	32
1433004192 Dup								2.9	3.6	126	1380	< 1	113	< 2	532	4.83	15	< 10	36	< 0.5	3	3.48	32
GC20-0828-002 Orig							> 5000																
GC20-0828-002 Dup							> 5000																
GC20-0833-008 Orig							3010																
GC20-0833-008 Dup							2950																
1230059307 Orig								3.0	1.7	38	1530	2	26	206	406	1.73	90	< 10	29	< 0.5	< 2	1.19	11
1230059307 Dup								3.0	1.5	39	1530	1	26	203	422	1.78	86	< 10	27	< 0.5	< 2	1.19	10
1230059270 Orig																							
1230059270 Dup																							
GC20-0851-003 Orig								1.7	< 0.5	27	1280	< 1	27	10	48	1.89	34	< 10	25	< 0.5	3	2.23	12
GC20-0851-003 Dup								1.6	< 0.5	28	1260	< 1	27	10	46	1.87	35	< 10	29	< 0.5	2	2.19	11
GC20-0864-019 Orig							194																
GC20-0864-019 Dup							193																
1230059282 Orig							160	0.7	0.6	23	845	< 1	22	22	161	1.80	100	< 10	40	< 0.5	< 2	0.61	9
1230059282 Dup							143	0.7	0.8	24	842	< 1	21	21	161	1.79	98	< 10	37	< 0.5	2	0.62	9
GC20-0809-012 Orig							286																
GC20-0809-012 Dup							270																
1324013077 Orig								0.3	< 0.5	42	265	< 1	16	< 2	52	2.06	7	< 10	33	< 0.5	5	0.70	12
1324013077 Dup								0.3	< 0.5	39	265	< 1	16	< 2	50	2.06	8	< 10	27	< 0.5	4	0.69	12
1324013004 Orig																							
1324013004 Dup																							
1231037115 Orig							51																
1231037115 Dup							49																
GC20-0255-001 Orig							88																
GC20-0255-001 Dup							87																
1323004139 Orig								0.9	1.1	57	667	< 1	15	6	263	1.98	15	< 10	20	< 0.5	4	1.19	9
1323004139 Dup								1.0	1.0	56	654	< 1	15	7	265	1.98	15	< 10	23	< 0.5	5	1.17	10
1323004122 Orig							125																
1323004122 Dup							125																
1230060142 Orig																							
1230060142 Dup																							
1323004024 Orig								2.7	1.9	41	707	2	16	23	570	1.67	47	< 10	18	< 0.5	< 2	2.02	10
1323004024 Dup								2.4	2.3	39	689	2	15	23	557	1.61	44	< 10	24	< 0.5	2	1.97	10
1324014186 Orig	52.5	13.8	-38.7	57.0	0.241																		
1324014186 Dup	52.5	13.9	-38.6	57.0	0.244																		
GC20-0873-007							270																

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Orig																							
GC20-0873-007 Dup							266																
GC20-0874-009 Orig								3.5	< 0.5	31	1170	< 1	32	27	210	2.44	68	< 10	24	< 0.5	4	0.34	13
GC20-0874-009 Dup								3.4	< 0.5	30	1130	< 1	31	26	205	2.38	64	< 10	22	< 0.5	2	0.33	12
GC20-0876-001 Orig							75																
GC20-0876-001 Dup							71																
GC20-0878-012 Orig							1090																
GC20-0878-012 Dup							1170																
1324014222 Orig																							
1324014222 Dup																							
GC20-0879-014 Orig								> 100	6.2	13	1490	< 1	24	875	1830	0.86	82	< 10	39	< 0.5	2	1.55	11
GC20-0879-014 Dup								> 100	6.1	13	1500	< 1	23	878	1840	0.85	81	< 10	35	< 0.5	< 2	1.56	10
GC20-0896-020 Orig								0.2	< 0.5	121	479	< 1	44	< 2	52	5.08	2	< 10	18	< 0.5	2	3.42	20
GC20-0896-020 Dup								< 0.2	< 0.5	121	481	< 1	46	< 2	52	5.06	< 2	< 10	18	< 0.5	2	3.39	20
GC20-0893-018 Orig							5																
GC20-0893-018 Dup							5																
1223001116 Orig																							
1223001116 Dup																							
GC20-0899-008 Orig							85																
GC20-0899-008 Dup							88																
GC20-0897-014 Orig								0.3	< 0.5	176	492	< 1	48	< 2	45	5.06	< 2	< 10	22	< 0.5	3	3.37	22
GC20-0897-014 Dup								0.3	< 0.5	174	489	< 1	48	< 2	46	5.03	< 2	< 10	22	< 0.5	2	3.35	22
1231048049 Orig							7																
1231048049 Dup							6																
1231048032 Orig						9.02																	
1231048032 Dup						9.02																	
GC20-0900-018 Orig								0.7	0.7	74	696	< 1	12	3	198	2.41	8	< 10	25	< 0.5	4	0.76	9
GC20-0900-018 Dup								0.8	0.6	71	694	< 1	12	4	193	2.40	7	< 10	29	< 0.5	5	0.75	10
1324020089 Orig																							
1324020089 Dup																							
123037258 Orig							6																
123037258 Dup							6																
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								5															
Method Blank								< 5															
Method Blank								< 5															
Method Blank								< 5															
Method Blank								< 5															
Method Blank								< 5															
Method Blank								< 5															
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Method Blank								< 5															
Method Blank								< 5															
Method Blank								< 5															
Method Blank								< 5															
Method Blank								< 5															

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
GXR-6 Meas	76	5.71	20	2	1.11	< 10	0.39	0.158	0.031	0.01	4	19	32		< 1	< 2	< 10	164	< 10	4	8			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
GXR-6 Meas	75	5.76	20	1	1.11	< 10	0.41	0.149	0.032	0.01	4	18	31		< 1	< 2	< 10	161	< 10	4	7			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
BaSO4 Meas																							14.0	
BaSO4 Cert																							14.0	
BaSO4 Meas																							14.0	
BaSO4 Cert																							14.0	
BaSO4 Meas																							13.7	
BaSO4 Cert																							14.0	
BaSO4 Meas																							13.9	
BaSO4 Cert																							14.0	
BaSO4 Meas																							14.0	
BaSO4 Cert																							14.0	
BaSO4 Meas																							14.1	
BaSO4 Cert																							14.0	
BaSO4 Meas																							14.2	
BaSO4 Cert																							14.0	
BaSO4 Meas																							14.0	
BaSO4 Cert																							14.0	
BaSO4 Meas																							14.0	
BaSO4 Cert																							14.0	
BaSO4 Meas																							14.0	
BaSO4 Cert																							14.0	
BaSO4 Meas																							14.0	
BaSO4 Cert																							14.0	
BaSO4 Meas																							14.1	
BaSO4 Cert																							14.0	
BaSO4 Meas																							14.1	
BaSO4 Cert																							14.0	
SGR-1b Meas																							28.0	1.52
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.5	1.52
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.5	1.54
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.5	1.53
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.6	1.54
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.8	1.62
SGR-1b Cert																							28	1.53
SGR-1b Meas																							28.0	1.61
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.5	1.59
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.7	1.62
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.4	1.64
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.6	1.66

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
SGR-1b Cert																						28	1.53	
SGR-1b Meas																							27.3	1.65
SGR-1b Cert																							28	1.53
SGR-1b Meas																							27.4	1.60
SGR-1b Cert																							28	1.53
GS311-4 Meas																							1.10	0.56
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.10	0.57
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.11	0.56
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.10	0.57
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.09	0.54
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.10	0.55
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.08	0.54
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.08	0.54
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.08	0.54
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.08	0.55
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.08	0.56
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.07	0.56
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.12	0.55
GS311-4 Cert																							1.11	0.54
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
OREAS 922 (AQUA REGIA) Meas	44	5.14	< 10		0.49	38	1.28	0.039	0.057	0.34	< 2	4	16			< 2	< 10	35	< 10	18	20			
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3			
OREAS 922 (AQUA REGIA) Meas	44	5.20	< 10		0.47	38	1.38	0.037	0.059	0.37	3	4	16			< 2	< 10	35	< 10	18	15			
OREAS 922	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3			

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
(AQUA REGIA) Cert																							
OREAS 923 (AQUA REGIA) Meas	40	5.86	< 10		0.39	34	1.37		0.055	0.63	3	4	14			< 2	< 10	33	< 10	16	25		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	39	5.83	< 10		0.38	34	1.43		0.057	0.66	3	4	14			< 2	< 10	33	< 10	17	24		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 621 (Aqua Regia) Meas	27	3.20	< 10	4	0.36	20	0.41	0.180	0.031	4.26	99	2	19			< 2	< 10	12	< 10	6	57		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	29	3.30	< 10	4	0.36	19	0.44	0.179	0.032	4.68	107	2	17			< 2	< 10	13	< 10	7	54		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 229b (Fire Assay) Meas																							
OREAS 229b (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
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OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.05	0.37
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.36
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.36
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.37
GS316-3 Cert																						0.0600	0.340

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.04	0.32
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
OREAS 257b (Fire Assay) Meas																							
OREAS 257b (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
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Oreas E1336 (Fire Assay) Meas																							
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Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
1324017169 Orig																						0.26	2.46
1324017169 Dup																						0.26	2.63
1230058275 Orig																							
1230058275 Dup																							
1433004192 Orig	216	8.19	< 10	2	0.21	< 10	2.98	0.300	0.041	2.83	2	8	73	0.10	< 1	< 2	< 10	109	< 10	6	8		
1433004192 Dup	208	8.17	< 10	2	0.21	< 10	2.99	0.298	0.041	2.77	< 2	7	72	0.10	2	< 2	< 10	109	< 10	6	8		
GC20-0828-002 Orig																							
GC20-0828-002 Dup																							
GC20-0833-008																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Orig																							
GC20-0833-008 Dup																							
1230059307 Orig	257	2.45	< 10	< 1	0.35	17	1.28	0.054	0.056	2.04	< 2	< 1	15	< 0.01	< 1	< 2	< 10	10	< 10	2	7		
1230059307 Dup	260	2.48	< 10	< 1	0.35	18	1.30	0.056	0.056	2.07	2	< 1	15	< 0.01	< 1	< 2	< 10	10	< 10	2	7		
1230059270 Orig																						0.12	1.73
1230059270 Dup																						0.12	1.74
GC20-0851-003 Orig	254	2.38	< 10	< 1	0.34	15	0.99	0.129	0.042	2.06	< 2	1	61	0.02	< 1	< 2	< 10	13	< 10	4	7		
GC20-0851-003 Dup	247	2.35	< 10	< 1	0.33	15	0.98	0.129	0.043	2.06	< 2	1	60	0.02	1	< 2	< 10	13	< 10	4	14		
GC20-0864-019 Orig																							
GC20-0864-019 Dup																							
1230059282 Orig	478	2.43	< 10	< 1	0.34	17	0.64	0.104	0.048	1.25	2	1	33	0.04	2	< 2	< 10	16	< 10	2	3		
1230059282 Dup	480	2.42	< 10	< 1	0.34	16	0.64	0.102	0.048	1.24	2	1	33	0.03	< 1	< 2	< 10	15	< 10	2	2		
GC20-0809-012 Orig																							
GC20-0809-012 Dup																							
1324013077 Orig	295	2.29	< 10	< 1	0.18	16	1.25	0.144	0.044	1.43	< 2	1	78	< 0.01	< 1	< 2	< 10	11	< 10	2	11		
1324013077 Dup	294	2.26	< 10	< 1	0.19	17	1.26	0.145	0.043	1.43	< 2	1	78	< 0.01	2	< 2	< 10	11	< 10	2	8		
1324013004 Orig																						0.24	1.25
1324013004 Dup																						0.25	1.25
1231037115 Orig																							
1231037115 Dup																							
GC20-0255-001 Orig																							
GC20-0255-001 Dup																							
1323004139 Orig	176	2.48	< 10	< 1	0.17	18	1.08	0.117	0.044	2.33	< 2	< 1	65	< 0.01	1	< 2	< 10	8	< 10	2	6		
1323004139 Dup	168	2.45	< 10	< 1	0.17	18	1.06	0.117	0.044	2.28	< 2	< 1	65	< 0.01	2	< 2	< 10	8	< 10	2	7		
1323004122 Orig																							
1323004122 Dup																							
1230060142 Orig																						0.04	5.77
1230060142 Dup																						0.03	5.65
1323004024 Orig	164	3.10	< 10	< 1	0.22	20	1.05	0.153	0.048	2.98	< 2	< 1	67	< 0.01	< 1	< 2	< 10	10	< 10	3	14		
1323004024 Dup	157	2.97	< 10	< 1	0.21	19	1.02	0.147	0.047	2.87	< 2	< 1	64	< 0.01	2	< 2	< 10	10	< 10	3	14		
1324014186 Orig																						0.27	1.86
1324014186 Dup																						0.25	1.86
GC20-0873-007 Orig																							
GC20-0873-007 Dup																							
GC20-0874-009 Orig	260	2.83	< 10	< 1	0.63	21	1.91	0.027	0.086	1.68	2	2	8	0.03	3	< 2	< 10	21	< 10	3	2		
GC20-0874-009 Dup	252	2.74	< 10	< 1	0.61	20	1.87	0.027	0.084	1.63	2	2	8	0.03	2	< 2	< 10	21	< 10	3	2		
GC20-0876-001 Orig																							
GC20-0876-001 Dup																							
GC20-0878-012 Orig																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GC20-0878-012 Dup																							
1324014222 Orig																							0.19
1324014222 Dup																							0.19
GC20-0879-014 Orig	417	2.02	< 10	< 1	0.50	18	0.16	0.025	0.038	1.94	6	< 1	97	< 0.01	3	< 2	< 10	6	< 10	2	13		
GC20-0879-014 Dup	417	2.03	< 10	< 1	0.49	18	0.16	0.025	0.038	1.97	5	< 1	97	< 0.01	< 1	< 2	< 10	6	< 10	2	13		
GC20-0896-020 Orig	105	4.32	< 10	1	0.06	< 10	1.55	0.651	0.019	0.08	< 2	5	61	0.20	< 1	< 2	< 10	125	< 10	3	3		
GC20-0896-020 Dup	106	4.44	< 10	3	0.06	< 10	1.55	0.675	0.019	0.08	< 2	5	61	0.21	1	< 2	< 10	126	< 10	3	3		
GC20-0893-018 Orig																							
GC20-0893-018 Dup																							
1223001116 Orig																							0.46
1223001116 Dup																							0.46
GC20-0899-008 Orig																							
GC20-0899-008 Dup																							
GC20-0897-014 Orig	118	4.44	< 10	4	0.07	< 10	1.85	0.610	0.019	0.11	< 2	7	68	0.20	< 1	< 2	< 10	127	< 10	4	3		
GC20-0897-014 Dup	115	4.43	< 10	< 1	0.07	< 10	1.84	0.603	0.019	0.11	< 2	7	68	0.21	< 1	< 2	< 10	128	< 10	4	3		
1231048049 Orig																							
1231048049 Dup																							
1231048032 Orig																							
1231048032 Dup																							
GC20-0900-018 Orig	118	2.79	< 10	< 1	0.16	15	1.38	0.198	0.036	2.01	< 2	< 1	71	< 0.01	2	< 2	< 10	11	< 10	2	19		
GC20-0900-018 Dup	119	2.79	< 10	< 1	0.16	15	1.37	0.203	0.036	1.99	< 2	< 1	72	< 0.01	3	< 2	< 10	11	< 10	2	20		
1324020089 Orig																							0.16
1324020089 Dup																							0.16
123037258 Orig																							
123037258 Dup																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.014	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.015	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank																							
Method Blank																							
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Method Blank																							

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
SGR-1b Meas	
SGR-1b Cert	
SGR-1b Meas	
SGR-1b Cert	
SGR-1b Meas	
SGR-1b Cert	
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
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GS311-4 Meas	
GS311-4 Cert	
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GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 922 (AQUA REGIA)	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 923 (AQUA REGIA) Meas	
OREAS 923 (AQUA REGIA) Cert	
OREAS 923 (AQUA REGIA) Meas	
OREAS 923 (AQUA REGIA) Cert	
Oreas 621 (Aqua Regia) Meas	
Oreas 621 (Aqua Regia) Cert	
Oreas 621 (Aqua Regia) Meas	
Oreas 621 (Aqua Regia) Cert	
OREAS 229b (Fire Assay) Meas	12.2
OREAS 229b (Fire Assay) Cert	11.9
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
Orig	
GC20-0828-002 Dup	136
GC20-0833-008 Orig	
GC20-0833-008 Dup	
1230059307 Orig	
1230059307 Dup	
1230059270 Orig	
1230059270 Dup	
GC20-0851-003 Orig	
GC20-0851-003 Dup	
GC20-0864-019 Orig	
GC20-0864-019 Dup	
1230059282 Orig	
1230059282 Dup	
GC20-0809-012 Orig	
GC20-0809-012 Dup	
1324013077 Orig	
1324013077 Dup	
1324013004 Orig	
1324013004 Dup	
1231037115 Orig	
1231037115 Dup	
GC20-0255-001 Orig	
GC20-0255-001 Dup	
1323004139 Orig	
1323004139 Dup	
1323004122 Orig	
1323004122 Dup	
1230060142 Orig	
1230060142 Dup	
1323004024 Orig	
1323004024 Dup	
1324014186 Orig	
1324014186 Dup	
GC20-0873-007 Orig	
GC20-0873-007 Dup	
GC20-0874-009 Orig	
GC20-0874-009 Dup	
GC20-0876-001	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
Orig	
GC20-0876-001 Dup	
GC20-0878-012 Orig	
GC20-0878-012 Dup	
1324014222 Orig	
1324014222 Dup	
GC20-0879-014 Orig	
GC20-0879-014 Dup	
GC20-0896-020 Orig	
GC20-0896-020 Dup	
GC20-0893-018 Orig	
GC20-0893-018 Dup	
1223001116 Orig	
1223001116 Dup	
GC20-0899-008 Orig	
GC20-0899-008 Dup	
GC20-0897-014 Orig	
GC20-0897-014 Dup	
1231048049 Orig	
1231048049 Dup	
1231048032 Orig	
1231048032 Dup	
GC20-0900-018 Orig	
GC20-0900-018 Dup	
1324020089 Orig	
1324020089 Dup	
123037258 Orig	
123037258 Dup	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	< 0.02



Report No.: A20-11589
Report Date: 24-Nov-20
Date Submitted: 24-Sep-20
Your Reference: 2020 August Check Assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

103 Pulp samples were submitted for analysis.

Table with 3 columns: The following analytical package(s) were requested, Testing Date, and details of packages like 11 ABA Modified Sobek Package and 4F-C, S.

REPORT A20-11589

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
Values which exceed the upper limit should be assayed for accurate numbers.
Footnote: samples F001607, F001609, F001610, F001611, and F001567 are insufficient.

CERTIFIED BY:

<original signed by>

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

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**New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada**

**Report No.: A20-11589
Report Date: 24-Nov-20
Date Submitted: 24-Sep-20
Your Reference: 2020 August Check Assays**

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

103 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2020-10-05 20:45:15
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2020-10-20 12:34:40

REPORT **A20-11589**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
Values which exceed the upper limit should be assayed for accurate numbers.
Footnote: samples F001607, F001609, F001610, F001611, and F001567 are insufficient.

CERTIFIED BY:

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Emmanuel Esemé, Ph.D.
Quality Control Coordinator

Results

Activation Laboratories Ltd.

Report: A20-11589

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1333099032	31.7	51.0	19.3	37.7	1.35	8.88	40	0.4	< 0.5	161	287	6	14	< 2	31	1.01	< 2	< 10	26	< 0.5	< 2	2.03	18
1333099015	21.0	56.9	35.8	27.9	2.04	9.47	17	< 0.2	< 0.5	32	277	2	15	< 2	27	1.13	< 2	< 10	42	< 0.5	3	2.03	9
F001567							2010																
1324020153	52.5	18.8	-33.7	60.9	0.309	8.37	71	0.5	< 0.5	79	472	4	14	2	61	1.18	11	< 10	33	< 0.5	3	0.94	11
GC20-0258-007							17	< 0.2	1.0	120	489	< 1	43	< 2	206	5.76	2	< 10	17	< 0.5	< 2	3.70	23

Results

Activation Laboratories Ltd.

Report: A20-11589

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GC20-0258-007	123	4.47	< 10	2	0.04	< 10	1.67	0.749	0.019	0.12	< 2	7	68	0.16	< 1	< 2	< 10	122	< 10	4	3		

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
SGR-1b Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
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GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
NBM-1 (slight fzz) Meas		42.0				8.50																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		42.8				8.08																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		42.1																					
NBM-1 (slight fzz) Cert		46.6																					
NBM-1 (slight fzz) Meas		42.1																					
NBM-1 (slight fzz) Cert		46.6																					
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2150	761	< 1	33	57	248	2.79	4		83	0.7	10	0.40	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922								0.9	< 0.5	2310	795	< 1	33	64	259	2.95	7		83	0.8	8	0.41	20

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
(AQUA REGIA) Meas																							
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2130	771	< 1	34	61	249	2.85	5		78	0.7	7	0.40	18
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								2.8	< 0.5	4320	869	< 1	32	80	331	2.83	7		68	0.7	25	0.40	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.6	< 0.5	4510	903	< 1	32	83	345	3.00	8		69	0.7	27	0.42	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.6	< 0.5	4160	868	< 1	31	82	318	2.83	6		56	0.6	24	0.40	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 621 (Aqua Regia) Meas								65.9	286	3460	537	12	24	> 5000	> 10000	1.73	75			0.6	8	1.31	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								69.5	298	3590	553	13	25	> 5000	> 10000	1.78	79			0.6	9	1.58	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								66.7	290	3470	542	12	23	> 5000	> 10000	1.75	76			0.6	10	1.61	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 45f (Aqua Regia) Meas										341	168	< 1	220	8	26	7.21			137	1.0	3	0.07	40
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										342	171	< 1	223	7	26	7.38			137	1.0	3	0.07	39
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										342	171	< 1	231	9	26	7.37			140	1.0	2	0.07	36
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 238 (Fire Assay) Meas								3060															
OREAS 238 (Fire Assay) Cert								3030															

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 238 (Fire Assay) Meas							3090																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3150																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3190																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3170																
OREAS 238 (Fire Assay) Cert							3030																
GS316-3 Meas																							
GS316-3 Cert																							
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GS316-3 Cert																							
Oreas E1336 (Fire Assay) Meas							493																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							514																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							516																
Oreas E1336 (Fire Assay) Cert							510																

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Oreas E1336 (Fire Assay) Meas							525																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							514																
Oreas E1336 (Fire Assay) Cert							510																
GC20-0136-015 Orig							2030																
GC20-0136-015 Dup							1760																
GC20-0218-002 Orig								0.7	< 0.5	68	441	1	17	6	40	2.38	12	< 10	52	< 0.5	4	0.62	10
GC20-0218-002 Dup								0.6	< 0.5	69	446	1	17	7	41	2.43	15	< 10	51	< 0.5	4	0.63	10
132403108 Orig							59																
132403108 Dup							73																
GC20-0929-001 Orig							92																
GC20-0929-001 Dup							77																
1231046199 Orig								< 0.2	< 0.5	35	532	< 1	35	< 2	91	2.71	6	< 10	49	< 0.5	< 2	1.87	13
1231046199 Dup								< 0.2	< 0.5	35	534	< 1	35	< 2	92	2.72	5	< 10	48	< 0.5	< 2	1.88	14
1231046169 Orig	20.7	31.6	10.9	24.2	1.31																		
1231046169 Dup	20.7	32.3	11.6	24.2	1.34																		
GC20-0933-011 Orig								0.7	< 0.5	210	344	< 1	8	4	57	1.55	10	< 10	27	< 0.5	8	0.55	9
GC20-0933-011 Dup								0.7	< 0.5	197	342	< 1	8	5	61	1.54	13	< 10	26	< 0.5	10	0.56	9
1324020016 Orig							67																
1324020016 Dup							89																
GC20-0907-025 Orig								1.4	50.2	193	801	< 1	17	11	> 10000	2.04	57	< 10	23	< 0.5	5	0.37	14
GC20-0907-025 Dup								2.6	49.6	196	797	< 1	16	10	> 10000	2.00	59	< 10	20	< 0.5	5	0.37	13
1231047001 Orig																							
1231047001 Dup																							
GC20-0913-001 Orig							60																
GC20-0913-001 Dup							60																
1231047057 Orig							10																
1231047057 Dup							10																
GC20-0164-021 Orig								1.0	< 0.5	351	296	2	16	3	30	2.20	5	< 10	43	< 0.5	3	1.37	8
GC20-0164-021 Dup								1.0	< 0.5	361	295	2	15	2	30	2.15	6	< 10	42	< 0.5	5	1.36	9
GC20-0886-020 Orig							21																
GC20-0886-020 Dup							18																
1235003012 Orig																							
1235003012 Dup																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GC20-0174-020 Orig							219																
GC20-0174-020 Dup							218																
GC20-0882-002 Orig								15.4	4.6	59	1070	< 1	20	414	1330	0.47	114	< 10	25	< 0.5	< 2	1.37	18
GC20-0882-002 Dup								14.1	4.9	65	1040	< 1	19	432	1290	0.44	137	< 10	24	< 0.5	< 2	1.38	17
1323002256 Orig							1090																
1323002256 Dup							1180																
1323003068 Orig							200																
1323003068 Dup							247																
1323003191 Orig								1.6	4.9	41	501	< 1	10	191	1100	0.69	147	< 10	25	< 0.5	< 2	0.87	10
1323003191 Dup								1.8	4.8	42	498	< 1	10	189	1130	0.66	151	< 10	25	< 0.5	2	0.87	9
1323003069 Orig																							
1323003069 Dup																							
1323003052 Orig							8.34																
1323003052 Dup							8.33																
1333099032 Orig	31.7	50.8	19.2	37.7	1.35																		
1333099032 Dup	31.7	51.1	19.5	37.7	1.36																		
1324020153 Orig	52.5	18.8	-33.7	60.9	0.309																		
1324020153 Dup	52.5	18.8	-33.7	60.9	0.308																		
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
SGR-1b Cert																						28	1.53	
SGR-1b Meas																							27.4	1.60
SGR-1b Cert																							28	1.53
GS311-4 Meas																							1.10	0.56
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.10	0.57
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.11	0.56
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.10	0.57
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.09	0.54
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.10	0.55
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.08	0.54
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.10	0.57
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.08	0.55
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.08	0.56
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.08	0.56
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.07	0.56
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.12	0.55
GS311-4 Cert																							1.11	0.54
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
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NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
OREAS 922 (AQUA REGIA) Meas	45	4.87	< 10		0.48	38	1.32	0.038	0.059	0.35	3	4	16			< 2	< 10	35	< 10	20	15			
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3			
OREAS 922 (AQUA REGIA) Meas	48	5.27	< 10		0.49	40	1.39	0.038	0.063	0.38	3	4	17			< 2	< 10	37	< 10	21	18			
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3			

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
OREAS 922 (AQUA REGIA) Meas	44	5.13	< 10		0.47	38	1.30	0.038	0.061	0.37	2	4	16			< 2	< 10	35	< 10	20	10		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 923 (AQUA REGIA) Meas	41	5.73	< 10		0.42	36	1.43		0.059	0.65	3	4	14			< 2	< 10	36	< 10	19	29		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	43	6.13	< 10		0.42	37	1.48		0.060	0.70	3	4	15			< 2	< 10	36	< 10	19	28		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	40	5.86	< 10		0.39	34	1.38		0.057	0.66	2	4	14			< 2	< 10	34	< 10	18	14		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 621 (Aqua Regia) Meas	32	3.22	10	4	0.38	18	0.43	0.185	0.032	4.15	117	2	16			3	< 10	13	< 10	7	70		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	34	3.34	< 10	4	0.39	20	0.45	0.194	0.033	4.62	127	2	18			< 2	< 10	13	< 10	8	73		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	29	3.35	< 10	4	0.37	19	0.42	0.182	0.032	4.63	95	2	18			< 2	< 10	12	< 10	7	50		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 45f (Aqua Regia) Meas	339	13.5	20	< 1	0.11	11	0.18	0.054	0.020	0.02		27	14	0.10		< 2	< 10	196		5	12		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 45f (Aqua Regia) Meas	337	14.1	20	< 1	0.11	11	0.18	0.053	0.020	0.02		27	15	0.10		< 2	< 10	200		5	13		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 45f (Aqua Regia) Meas	336	14.1	20	< 1	0.10	11	0.18	0.058	0.021	0.02		28	14	0.11		< 2	< 10	199		5	15		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.05	0.37
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.36
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.36
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.37
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.04	0.32
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
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Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
GC20-0136-015 Orig																							
GC20-0136-015																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Dup																							
GC20-0218-002 Orig	257	3.73	< 10	< 1	0.27	15	1.21	0.069	0.041	1.52	3	1	50	0.05	2	< 2	< 10	15	< 10	3	23		
GC20-0218-002 Dup	265	3.84	< 10	< 1	0.27	15	1.22	0.072	0.041	1.60	< 2	1	51	0.05	< 1	< 2	< 10	16	< 10	3	23		
132403108 Orig																							
132403108 Dup																							
GC20-0929-001 Orig																							
GC20-0929-001 Dup																							
1231046199 Orig	229	2.72	< 10	< 1	0.19	16	1.39	0.270	0.043	0.30	< 2	4	64	0.12	2	< 2	< 10	48	< 10	4	14	0.25	0.36
1231046199 Dup	243	2.72	< 10	< 1	0.19	16	1.40	0.271	0.042	0.30	< 2	4	64	0.12	3	< 2	< 10	48	< 10	4	14	0.22	0.32
1231046169 Orig																							
1231046169 Dup																							
GC20-0933-011 Orig	60	3.56	< 10	< 1	0.15	15	1.14	0.044	0.041	3.02	2	< 1	21	< 0.01	< 1	< 2	< 10	6	< 10	3	22		
GC20-0933-011 Dup	59	3.52	< 10	< 1	0.15	15	1.14	0.044	0.041	3.04	< 2	< 1	21	< 0.01	3	< 2	< 10	6	< 10	3	21		
1324020016 Orig																							
1324020016 Dup																							
GC20-0907-025 Orig	114	4.00	< 10	2	0.17	17	1.71	0.049	0.047	3.36	3	1	17	< 0.01	4	< 2	< 10	15	< 10	5	25		
GC20-0907-025 Dup	114	3.97	< 10	2	0.17	16	1.72	0.050	0.047	3.25	3	1	17	< 0.01	2	< 2	< 10	15	< 10	5	25		
1231047001 Orig																						0.34	0.22
1231047001 Dup																						0.34	0.22
GC20-0913-001 Orig																							
GC20-0913-001 Dup																							
1231047057 Orig																							
1231047057 Dup																							
GC20-0164-021 Orig	378	2.25	< 10	< 1	0.24	14	0.82	0.171	0.037	1.25	2	1	76	0.04	< 1	< 2	< 10	14	< 10	3	13		
GC20-0164-021 Dup	370	2.21	< 10	< 1	0.23	14	0.82	0.170	0.038	1.25	< 2	1	74	0.04	< 1	< 2	< 10	14	< 10	3	13		
GC20-0886-020 Orig																							
GC20-0886-020 Dup																							
1235003012 Orig																						0.69	0.15
1235003012 Dup																						0.71	0.19
GC20-0174-020 Orig																							
GC20-0174-020 Dup																							
GC20-0882-002 Orig	134	2.92	< 10	1	0.24	14	0.13	0.024	0.042	3.43	11	< 1	43	< 0.01	2	< 2	< 10	3	< 10	2	11		
GC20-0882-002 Dup	131	2.84	< 10	1	0.23	14	0.13	0.022	0.044	3.31	10	< 1	42	< 0.01	4	< 2	< 10	3	< 10	2	10		
1323002256 Orig																							
1323002256 Dup																							
1323003068 Orig																							
1323003068 Dup																							
1323003191 Orig	116	1.94	< 10	< 1	0.25	14	0.34	0.023	0.044	1.99	4	< 1	13	< 0.01	1	< 2	< 10	4	< 10	2	13		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1323003191 Dup	115	1.90	< 10	< 1	0.24	14	0.34	0.024	0.044	1.96	4	< 1	13	< 0.01	< 1	< 2	< 10	4	< 10	2	13			
1323003069 Orig																						0.42	2.16	
1323003069 Dup																						0.42	2.29	
1323003052 Orig																								
1323003052 Dup																								
1333099032 Orig																								
1333099032 Dup																								
1324020153 Orig																								
1324020153 Dup																								
Method Blank																								
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Method Blank																								
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1			
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1			
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1			
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1			
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.014	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1			



Report No.: A20-12874
Report Date: 18-Dec-20
Date Submitted: 16-Oct-20
Your Reference: 2020 September Check Assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

93 Pulp samples were submitted for analysis.

Table with 3 columns: Analytical package(s) requested, Test Name, Testing Date. Rows include 11 ABA Modified Sobek Package, 4F-C, S, Acid Base Accounting, and Infrared.

REPORT A20-12874

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

<original signed by>

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Emmanuel Esemé, Ph.D.
Quality Control Coordinator

Report No.: A20-12874
Report Date: 18-Dec-20
Date Submitted: 16-Oct-20
Your Reference: 2020 September Check Assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

93 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2020-11-30 10:10:44
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2020-12-03 12:44:26

REPORT **A20-12874**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

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Emmanuel Esemé, Ph.D.
 Quality Control Coordinator

Analyte Symbol	NP	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	kg CaC O3/t	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit		0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	TITR	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS311-4 Cert																							
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GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
NBM-1 (slight fzz) Meas	43.7	8.62																					
NBM-1 (slight fzz) Cert	46.6	8.53																					
NBM-1 (slight fzz) Meas	43.7	8.57																					
NBM-1 (slight fzz) Cert	46.6	8.53																					
NBM-1 (slight fzz) Meas	43.7	8.08																					
NBM-1 (slight fzz) Cert	46.6	8.53																					
NBM-1 (slight fzz) Meas	43.7	8.18																					
NBM-1 (slight fzz) Cert	46.6	8.53																					
NBM-1 (slight fzz) Meas	43.6	8.60																					
NBM-1 (slight fzz) Cert	46.6	8.53																					
NBM-1 (slight fzz) Meas	43.6	8.28																					
NBM-1 (slight fzz) Cert	46.6	8.53																					
NBM-1 (slight fzz) Meas	43.7																						
NBM-1 (slight fzz) Cert	46.6																						
NBM-1 (slight fzz) Meas	43.7																						
NBM-1 (slight fzz) Cert	46.6																						

Analyte Symbol	NP	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	kg CaC O3/t	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit		0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	TITR	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Cert																							
NBM-1 (slight fzz) Meas	43.8																						
NBM-1 (slight fzz) Cert	46.6																						
NBM-1 (slight fzz) Meas	43.7																						
NBM-1 (slight fzz) Cert	46.6																						
OREAS 922 (AQUA REGIA) Meas				0.8	< 0.5	2230	754	< 1	36	58	252	2.88	4		75	0.6	5	0.40	19	43	5.06	< 10	
OREAS 922 (AQUA REGIA) Cert				0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62	
OREAS 922 (AQUA REGIA) Meas				1.0	< 0.5	2240	763	< 1	37	58	255	2.88	5		79	0.6	7	0.40	19	44	5.12	< 10	
OREAS 922 (AQUA REGIA) Cert				0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62	
OREAS 922 (AQUA REGIA) Meas				1.2	< 0.5	2260	773	< 1	34	59	256	2.82	5		77	0.6	10	0.39	20	43	5.13	< 10	
OREAS 922 (AQUA REGIA) Cert				0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62	
OREAS 922 (AQUA REGIA) Meas				0.9	< 0.5	2180	777	< 1	35	64	260	2.87	6		79	0.7	7	0.41	19	45	5.31	< 10	
OREAS 922 (AQUA REGIA) Cert				0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62	
OREAS 922 (AQUA REGIA) Meas				1.3	< 0.5	2130	773	< 1	35	61	253	2.91	6		84	0.7	9	0.42	19	44	5.16	< 10	
OREAS 922 (AQUA REGIA) Cert				0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62	
OREAS 923 (AQUA REGIA) Meas				1.5	< 0.5	4260	851	< 1	30	74	322	2.85	6		55	0.6	11	0.40	22	40	5.79	< 10	
OREAS 923 (AQUA REGIA) Cert				1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01	
OREAS 923 (AQUA REGIA) Meas				1.7	< 0.5	4380	858	< 1	33	78	322	2.86	6		60	0.6	16	0.40	22	40	5.83	< 10	
OREAS 923 (AQUA REGIA) Cert				1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01	
OREAS 923 (AQUA REGIA) Meas				1.5	< 0.5	4300	866	< 1	31	80	328	2.84	5		64	0.6	17	0.40	22	40	5.86	< 10	
OREAS 923 (AQUA REGIA) Cert				1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01	
OREAS 923				2.3	< 0.5	4360	871	< 1	34	79	329	2.82	8		63	0.6	26	0.41	21	40	6.05	< 10	

Analyte Symbol	NP	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	kg CaC O3/t	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit		0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	TITR	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
(AQUA REGIA) Meas																							
OREAS 923 (AQUA REGIA) Cert				1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01	
OREAS 923 (AQUA REGIA) Meas				3.4	< 0.5	4330	872	< 1	31	78	329	2.91	6		70	0.7	22	0.42	21	41	5.96	< 10	
OREAS 923 (AQUA REGIA) Cert				1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01	
Oreas 621 (Aqua Regia) Meas				66.5	278	3620	529	12	24	> 5000	> 10000	1.79	74			0.5	< 2	1.66	29	28	3.42	< 10	3
Oreas 621 (Aqua Regia) Cert				68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93
Oreas 621 (Aqua Regia) Meas				66.6	279	3660	524	12	27	> 5000	> 10000	1.80	75			0.5	3	1.65	29	33	3.42	< 10	4
Oreas 621 (Aqua Regia) Cert				68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93
Oreas 621 (Aqua Regia) Meas				67.7	279	3690	531	12	27	> 5000	> 10000	1.73	74			< 0.5	< 2	1.64	29	33	3.42	< 10	3
Oreas 621 (Aqua Regia) Cert				68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93
Oreas 621 (Aqua Regia) Meas				67.5	283	3500	539	13	26	> 5000	> 10000	1.70	75			0.6	8	1.68	30	31	3.44	< 10	4
Oreas 621 (Aqua Regia) Cert				68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93
Oreas 621 (Aqua Regia) Meas				67.3	284	3480	548	13	28	> 5000	> 10000	1.82	76			0.6	8	1.72	29	35	3.40	10	4
Oreas 621 (Aqua Regia) Cert				68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93
OREAS 238 (Fire Assay) Meas			2930																				
OREAS 238 (Fire Assay) Cert			3030																				
OREAS 238 (Fire Assay) Meas			2960																				
OREAS 238 (Fire Assay) Cert			3030																				
OREAS 238 (Fire Assay) Meas			3070																				
OREAS 238 (Fire Assay) Cert			3030																				
OREAS 238 (Fire Assay) Meas			2960																				
OREAS 238 (Fire Assay) Cert			3030																				
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							

Analyte Symbol	NP	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	kg CaC O3/t	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	
Method Code	TITR	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
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GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
Oreas E1336 (Fire Assay) Meas			510																				
Oreas E1336 (Fire Assay) Cert			510																				
Oreas E1336 (Fire Assay) Meas			525																				
Oreas E1336 (Fire Assay) Cert			510																				
Oreas E1336 (Fire Assay) Meas			496																				
Oreas E1336 (Fire Assay) Cert			510																				
1323017087 Orig			299																				
1323017087 Dup			283																				
1323021099 Orig				< 0.2	< 0.5	118	479	< 1	51	< 2	43	4.95	< 2	< 10	< 10	< 0.5	2	3.63	25	243	4.61	< 10	3
1323021099 Dup				< 0.2	< 0.5	115	476	< 1	52	< 2	43	4.99	< 2	< 10	< 10	< 0.5	3	3.62	25	241	4.54	< 10	2
1323021100 Orig																							
1323021100 Dup																							
GC20-0306-016 Orig			146																				
GC20-0306-016 Dup			164																				
1323018052 Orig			29																				
1323018052 Dup			31																				
1323022138 Orig																							
1323022138 Dup																							
GC20-0348-				2.5	< 0.5	30	1590	1	14	62	148	1.32	53	< 10	30	< 0.5	4	1.95	7	162	1.79	< 10	< 1

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GS311-4 Cert																		1.11	0.54
GS311-4 Meas																		1.05	0.54
GS311-4 Cert																		1.11	0.54
GS311-4 Meas																		1.07	0.56
GS311-4 Cert																		1.11	0.54
GS311-4 Meas																		1.06	0.55
GS311-4 Cert																		1.11	0.54
GS311-4 Meas																		1.08	0.54
GS311-4 Cert																		1.11	0.54
GS311-4 Meas																		1.07	0.52
GS311-4 Cert																		1.11	0.54
GS311-4 Meas																		1.06	0.54
GS311-4 Cert																		1.11	0.54
GS311-4 Meas																		1.07	0.53
GS311-4 Cert																		1.11	0.54
GS311-4 Meas																		1.07	0.53
GS311-4 Cert																		1.11	0.54
GS311-4 Meas																		1.08	0.53
GS311-4 Cert																		1.11	0.54
GS311-4 Meas																		1.07	0.52
GS311-4 Cert																		1.11	0.54
GS311-4 Meas																		1.08	0.53
GS311-4 Cert																		1.11	0.54
GS311-4 Meas																		1.07	0.52
NBM-1 (slight fzz) Meas																			
NBM-1 (slight fzz) Cert																			
NBM-1 (slight fzz) Meas																			
NBM-1 (slight fzz) Cert																			
NBM-1 (slight fzz) Meas																			
NBM-1 (slight fzz) Cert																			
NBM-1 (slight fzz) Meas																			
NBM-1 (slight fzz) Cert																			
NBM-1 (slight fzz) Meas																			
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NBM-1 (slight fzz) Meas																			
NBM-1 (slight fzz) Cert																			
NBM-1 (slight fzz) Meas																			
NBM-1 (slight fzz) Cert																			
NBM-1 (slight fzz) Meas																			
NBM-1 (slight fzz) Cert																			

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
NBM-1 (slight fzz) Meas																				
NBM-1 (slight fzz) Cert																				
OREAS 922 (AQUA REGIA) Meas	0.48	36	1.30	0.023	0.061	0.37	< 2	4	16			< 2	< 10	34	< 10	20	16			
OREAS 922 (AQUA REGIA) Cert	0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3			
OREAS 922 (AQUA REGIA) Meas	0.48	36	1.31	0.025	0.061	0.37	3	4	16			< 2	< 10	34	< 10	20	16			
OREAS 922 (AQUA REGIA) Cert	0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3			
OREAS 922 (AQUA REGIA) Meas	0.44	36	1.31	0.023	0.062	0.37	< 2	4	16			< 2	< 10	34	< 10	19	23			
OREAS 922 (AQUA REGIA) Cert	0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3			
OREAS 922 (AQUA REGIA) Meas	0.46	36	1.33	0.032	0.062	0.38	< 2	4	16			< 2	< 10	35	< 10	20	24			
OREAS 922 (AQUA REGIA) Cert	0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3			
OREAS 922 (AQUA REGIA) Meas	0.48	36	1.30	0.034	0.059	0.38	2	4	16			< 2	< 10	35	< 10	21	19			
OREAS 922 (AQUA REGIA) Cert	0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3			
OREAS 923 (AQUA REGIA) Meas	0.40	32	1.37		0.057	0.67	< 2	4	14			< 2	< 10	33	< 10	18	24			
OREAS 923 (AQUA REGIA) Cert	0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5			
OREAS 923 (AQUA REGIA) Meas	0.41	33	1.38		0.058	0.68	< 2	4	14			< 2	< 10	34	< 10	18	28			
OREAS 923 (AQUA REGIA) Cert	0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5			
OREAS 923 (AQUA REGIA) Meas	0.39	32	1.39		0.058	0.65	3	4	14			< 2	< 10	33	< 10	18	21			
OREAS 923 (AQUA REGIA) Cert	0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5			
OREAS 923 (AQUA REGIA) Meas	0.39	32	1.41		0.058	0.69	4	4	14			< 2	< 10	34	< 10	18	29			
OREAS 923 (AQUA REGIA) Cert	0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5			
OREAS 923 (AQUA REGIA) Meas	0.42	33	1.40		0.057	0.69	3	4	14			< 2	< 10	35	< 10	19	24			

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
OREAS 923 (AQUA REGIA) Cert	0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 621 (Aqua Regia) Meas	0.39	19	0.43	0.185	0.032	4.62	97	2	18			< 2	< 10	13	< 10	8	52		
Oreas 621 (Aqua Regia) Cert	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	0.39	20	0.43	0.185	0.032	4.57	107	2	18			< 2	< 10	13	< 10	8	61		
Oreas 621 (Aqua Regia) Cert	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	0.36	20	0.43	0.181	0.033	4.59	103	2	18			< 2	< 10	12	< 10	7	67		
Oreas 621 (Aqua Regia) Cert	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	0.37	18	0.43	0.173	0.033	4.69	114	2	18			< 2	< 10	13	< 10	7	64		
Oreas 621 (Aqua Regia) Cert	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	0.39	20	0.43	0.188	0.033	4.78	121	2	20			5	< 10	13	< 10	8	68		
Oreas 621 (Aqua Regia) Cert	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 238 (Fire Assay) Meas																			
OREAS 238 (Fire Assay) Cert																			
OREAS 238 (Fire Assay) Meas																			
OREAS 238 (Fire Assay) Cert																			
OREAS 238 (Fire Assay) Meas																			
OREAS 238 (Fire Assay) Cert																			
OREAS 238 (Fire Assay) Meas																			
OREAS 238 (Fire Assay) Cert																			
GS316-3 Meas																		0.07	0.33
GS316-3 Cert																		0.0600	0.340
GS316-3 Meas																		0.07	0.35
GS316-3 Cert																		0.0600	0.340
GS316-3 Meas																		0.07	0.35
GS316-3 Cert																		0.0600	0.340
GS316-3 Meas																		0.06	0.33
GS316-3 Cert																		0.0600	0.340
GS316-3 Meas																		0.07	0.35
GS316-3 Cert																		0.0600	0.340
GS316-3 Meas																		0.06	0.34
GS316-3 Cert																		0.0600	0.340
GS316-3 Meas																		0.07	0.34
GS316-3 Cert																		0.0600	0.340
GS316-3 Meas																		0.06	0.34
GS316-3 Cert																		0.0600	0.340
GS316-3 Meas																		0.06	0.34

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GS316-3 Cert																		0.0600	0.340
GS316-3 Meas																		0.06	0.34
GS316-3 Cert																		0.0600	0.340
GS316-3 Meas																		0.05	0.33
GS316-3 Cert																		0.0600	0.340
GS316-3 Meas																		0.06	0.33
GS316-3 Cert																		0.0600	0.340
GS316-3 Meas																		0.06	0.34
GS316-3 Cert																		0.0600	0.340
GS316-3 Meas																		0.06	0.33
GS316-3 Cert																		0.0600	0.340
GS316-3 Meas																		0.06	0.33
GS316-3 Cert																		0.0600	0.340
GS316-3 Meas																		0.06	0.33
GS316-3 Cert																		0.0600	0.340
GS316-3 Meas																		0.06	0.33
GS316-3 Cert																		0.0600	0.340
GS316-3 Meas																		0.06	0.33
GS316-3 Cert																		0.0600	0.340
Oreas E1336 (Fire Assay) Meas																			
Oreas E1336 (Fire Assay) Cert																			
Oreas E1336 (Fire Assay) Meas																			
Oreas E1336 (Fire Assay) Cert																			
Oreas E1336 (Fire Assay) Meas																			
Oreas E1336 (Fire Assay) Cert																			
1323017087 Orig																			
1323017087 Dup																			
1323021099 Orig	0.03	< 10	1.78	0.514	0.019	0.13	< 2	6	61	0.21	2	< 2	< 10	128	< 10	4	3		
1323021099 Dup	0.03	< 10	1.74	0.522	0.019	0.14	< 2	6	59	0.21	5	< 2	< 10	126	< 10	4	3		
1323021100 Orig																		0.25	0.22
1323021100 Dup																		0.26	0.22
GC20-0306-016 Orig																			
GC20-0306-016 Dup																			
1323018052 Orig																			
1323018052 Dup																			
1323022138 Orig																		0.25	1.36
1323022138 Dup																		0.25	1.37
GC20-0348-009FD Orig	0.41	14	0.69	0.031	0.040	1.61	3	< 1	22	< 0.01	1	< 2	< 10	6	< 10	2	14		
GC20-0348-009FD Dup	0.42	14	0.71	0.031	0.040	1.63	3	< 1	22	< 0.01	< 1	< 2	< 10	6	< 10	2	13		
1323021146 Orig																		0.29	0.10
1323021146 Dup																		0.28	0.09
1323017072 Orig	0.22	12	0.73	0.065	0.041	2.11	< 2	1	28	< 0.01	2	< 2	< 10	15	< 10	3	19		
1323017072 Dup	0.22	13	0.72	0.064	0.039	2.06	< 2	1	28	< 0.01	2	< 2	< 10	15	< 10	3	19		
1323021181 Orig																			
1432089471 Orig	0.10	< 10	2.43	0.069	0.057	0.87	3	24	57	0.17	3	< 2	< 10	354	< 10	11	5		
1432089471 Dup	0.10	< 10	2.40	0.067	0.056	0.85	3	24	57	0.12	2	< 2	< 10	344	< 10	10	4		
1432089202 Orig																		1.02	1.46
1432089202 Dup																		1.02	1.43

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1230067131 Orig																			
1230067131 Dup																			
1323010147 Orig																		0.21	0.94
1323010147 Dup																		0.21	0.91
1323017197 Orig	0.19	13	0.75	0.055	0.039	2.05	< 2	2	22	0.04	2	< 2	< 10	21	< 10	3	18		
1323017197 Dup	0.18	13	0.74	0.055	0.039	1.94	< 2	2	22	0.04	3	< 2	< 10	21	< 10	3	18		
1433094348 Orig																			
1433094348 Dup																			
1323010007 Orig																		0.18	1.66
1323010007 Dup																		0.18	1.63
1323017107 Orig																			
1323017107 Dup																			
GC20-0331-018 Orig	0.29	13	0.08	0.023	0.040	3.51	4	< 1	12	< 0.01	< 1	< 2	< 10	4	< 10	1	11		
GC20-0331-018 Dup	0.30	13	0.08	0.024	0.041	3.59	3	< 1	12	< 0.01	3	< 2	< 10	4	< 10	1	12		
1323003137 Orig																			
1323003137 Dup																			
Method Blank																			
Method Blank																			
Method Blank																			
Method Blank																			
Method Blank																			
Method Blank																			
Method Blank	< 0.01	< 10	< 0.01	0.006	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 0.01	< 10	< 0.01	0.006	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 0.01	< 10	< 0.01	0.006	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 0.01	< 10	< 0.01	0.005	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	1	< 2	< 10	< 1	< 10	< 1	< 1		



Report No.: A20-12876
Report Date: 18-Dec-20
Date Submitted: 16-Oct-20
Your Reference: 2020 September Check Assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

141 Pulp samples were submitted for analysis.

Table with 3 columns: The following analytical package(s) were requested, Testing Date, and details of packages like 11 ABA Modified Sobek Package and 4F-C, S.

REPORT A20-12876

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

Footnote: Sample F001806 was insufficient for further analysis

CERTIFIED BY:

<original signed by>

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

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Report No.: A20-12876
Report Date: 18-Dec-20
Date Submitted: 16-Oct-20
Your Reference: 2020 September Check Assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

141 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2020-11-30 10:10:44
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2020-12-03 12:44:26

REPORT **A20-12876**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

Footnote: Sample F001806 was insufficient for further analysis

CERTIFIED BY:

<original signed by>

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Emmanuel Esemé, Ph.D.
 Quality Control Coordinator

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
GS311-4 Cert																								
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GS311-4 Cert																								
GS311-4 Meas																								
GS311-4 Cert																								
GS311-4 Meas																								
NBM-1 (slight fzz) Meas		43.7				8.62																		
NBM-1 (slight fzz) Cert		46.6				8.53																		
NBM-1 (slight fzz) Meas		43.7				8.57																		
NBM-1 (slight fzz) Cert		46.6				8.53																		
NBM-1 (slight fzz) Meas		43.7				8.08																		
NBM-1 (slight fzz) Cert		46.6				8.53																		
NBM-1 (slight fzz) Meas		43.7				8.18																		
NBM-1 (slight fzz) Cert		46.6				8.53																		
NBM-1 (slight fzz) Meas		43.6				8.60																		
NBM-1 (slight fzz) Cert		46.6				8.53																		
NBM-1 (slight fzz) Meas		43.6				8.28																		
NBM-1 (slight fzz) Cert		46.6				8.53																		
NBM-1 (slight fzz) Meas		43.7																						
NBM-1 (slight fzz)		46.6																						

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Cert																							
NBM-1 (slight fzz) Meas		43.8																					
NBM-1 (slight fzz) Cert		46.6																					
NBM-1 (slight fzz) Meas		43.7																					
NBM-1 (slight fzz) Cert		46.6																					
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2230	754	< 1	36	58	252	2.88	4		75	0.6	5	0.40	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								1.0	< 0.5	2240	763	< 1	37	58	255	2.88	5		79	0.6	7	0.40	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								1.2	< 0.5	2260	773	< 1	34	59	256	2.82	5		77	0.6	10	0.39	20
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2180	777	< 1	35	64	260	2.87	6		79	0.7	7	0.41	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								1.3	< 0.5	2130	773	< 1	35	61	253	2.91	6		84	0.7	9	0.42	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								1.5	< 0.5	4260	851	< 1	30	74	322	2.85	6		55	0.6	11	0.40	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.7	< 0.5	4380	858	< 1	33	78	322	2.86	6		60	0.6	16	0.40	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.5	< 0.5	4300	866	< 1	31	80	328	2.84	5		64	0.6	17	0.40	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923								2.3	< 0.5	4360	871	< 1	34	79	329	2.82	8		63	0.6	26	0.41	21

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
(AQUA REGIA) Meas																							
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								3.4	< 0.5	4330	872	< 1	31	78	329	2.91	6		70	0.7	22	0.42	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 621 (Aqua Regia) Meas								66.5	278	3620	529	12	24	> 5000	> 10000	1.79	74			0.5	< 2	1.66	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								66.6	279	3660	524	12	27	> 5000	> 10000	1.80	75			0.5	3	1.65	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								67.7	279	3690	531	12	27	> 5000	> 10000	1.73	74			< 0.5	< 2	1.64	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								67.5	283	3500	539	13	26	> 5000	> 10000	1.70	75			0.6	8	1.68	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								67.3	284	3480	548	13	28	> 5000	> 10000	1.82	76			0.6	8	1.72	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 238 (Fire Assay) Meas								3040															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3090															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3010															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3130															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3010															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								2970															
OREAS 238 (Fire Assay) Cert								3030															
GS316-3 Meas																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS316-3 Cert																							
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GS316-3 Meas																							
Oreas E1336 (Fire Assay) Meas							513																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							505																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							526																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							530																
Oreas E1336 (Fire Assay) Cert							510																
1230063001 Orig						9.02																	
1230063001 Dup						9.02																	
1230063027 Orig																							
1230063027 Dup																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GC20-1013-004 Orig								0.5	< 0.5	40	373	3	14	4	51	1.78	22	< 10	27	< 0.5	10	0.52	9
GC20-1013-004 Dup								0.5	< 0.5	37	357	3	13	3	50	1.71	23	< 10	29	< 0.5	11	0.50	10
GC20-0949-006 Orig							247																
GC20-0949-006 Dup							133																
GC20-0948-004 Orig							498																
GC20-0948-004 Dup							462																
GC20-1004-005 Orig								0.4	< 0.5	13	434	1	16	3	72	2.10	5	< 10	33	< 0.5	5	1.02	10
GC20-1004-005 Dup								0.4	< 0.5	13	427	1	16	4	73	2.03	6	< 10	33	< 0.5	4	1.00	9
GC20-1009-001 Orig							131																
GC20-1009-001 Dup							136																
1323008199 Orig																							
1323008199 Dup																							
GC20-0293-001 Orig								1.8	1.4	32	1030	< 1	14	33	407	0.76	127	< 10	25	< 0.5	< 2	2.67	8
GC20-0293-001 Dup								1.7	1.3	31	1040	< 1	13	33	411	0.81	125	< 10	26	< 0.5	3	2.66	8
1323008213 Orig							22																
1323008213 Dup							25																
GC20-0247-007 Orig							217	0.8	0.7	16	986	< 1	8	9	204	1.35	128	< 10	30	< 0.5	2	2.68	6
GC20-0247-007 Dup							254	0.6	0.8	17	1020	< 1	8	9	210	1.42	167	< 10	31	< 0.5	2	2.74	7
1323009030 Orig							75																
1323009030 Dup							79																
1323012315 Orig																							
1323012315 Dup																							
GC20-1030-001 Orig								0.6	< 0.5	50	376	< 1	11	4	74	2.05	37	< 10	37	< 0.5	6	1.26	8
GC20-1030-001 Dup								0.5	< 0.5	46	367	< 1	11	5	72	1.90	40	< 10	38	< 0.5	8	1.21	8
GC20-0966-004 Orig							171																
GC20-0966-004 Dup							179																
1323008009 Orig								0.7	< 0.5	180	443	1	16	3	91	2.28	21	< 10	42	< 0.5	4	0.90	11
1323008009 Dup								2.0	< 0.5	191	441	1	15	< 2	93	2.24	23	< 10	42	< 0.5	3	0.90	11
1323008057 Orig																							
1323008057 Dup																							
1432097047 Orig							42																
1432097047 Dup							43																
GC20-0964-005 Orig							380																
GC20-0964-005 Dup							436																

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GXR-6 Meas	74	5.22	20	< 1	1.12	11	0.38	0.079	0.032	0.01	4	24	34		3	< 2	< 10	161	< 10	7	10		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	74	5.27	20	< 1	1.12	11	0.38	0.079	0.032	0.01	4	24	34		< 1	< 2	< 10	157	< 10	7	7		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	75	5.31	20	< 1	1.11	11	0.38	0.079	0.032	0.01	5	24	33		< 1	< 2	< 10	161	< 10	7	10		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	79	6.03	20	2	1.13	< 10	0.40	0.143	0.034	0.01	5	19	29		< 1	< 2	< 10	171	< 10	5	6		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	79	5.94	20	3	1.15	< 10	0.40	0.141	0.034	0.01	4	19	29		< 1	2	< 10	172	< 10	5	8		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							13.8
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							13.8
BaSO4 Cert																							14.0
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BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
GS311-4 Meas																						1.07	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.06	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.55

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.05	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.06	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.08	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.52
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.06	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.53
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.52
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.08	0.53
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.52
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.08	0.53
GS311-4 Cert																						1.11	0.54
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
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NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	43	5.06	< 10		0.48	36	1.30	0.023	0.061	0.37	< 2	4	16			< 2	< 10	34	< 10	20	16		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	44	5.12	< 10		0.48	36	1.31	0.025	0.061	0.37	3	4	16			< 2	< 10	34	< 10	20	16		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	43	5.13	< 10		0.44	36	1.31	0.023	0.062	0.37	< 2	4	16			< 2	< 10	34	< 10	19	23		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	45	5.31	< 10		0.46	36	1.33	0.032	0.062	0.38	< 2	4	16			< 2	< 10	35	< 10	20	24		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	44	5.16	< 10		0.48	36	1.30	0.034	0.059	0.38	2	4	16			< 2	< 10	35	< 10	21	19		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 923 (AQUA REGIA) Meas	40	5.79	< 10		0.40	32	1.37		0.057	0.67	< 2	4	14			< 2	< 10	33	< 10	18	24		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	40	5.83	< 10		0.41	33	1.38		0.058	0.68	< 2	4	14			< 2	< 10	34	< 10	18	28		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	40	5.86	< 10		0.39	32	1.39		0.058	0.65	3	4	14			< 2	< 10	33	< 10	18	21		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	40	6.05	< 10		0.39	32	1.41		0.058	0.69	4	4	14			< 2	< 10	34	< 10	18	29		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	41	5.96	< 10		0.42	33	1.40		0.057	0.69	3	4	14			< 2	< 10	35	< 10	19	24		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 621 (Aqua Regia) Meas	28	3.42	< 10	3	0.39	19	0.43	0.185	0.032	4.62	97	2	18			< 2	< 10	13	< 10	8	52		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	33	3.42	< 10	4	0.39	20	0.43	0.185	0.032	4.57	107	2	18			< 2	< 10	13	< 10	8	61		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	33	3.42	< 10	3	0.36	20	0.43	0.181	0.033	4.59	103	2	18			< 2	< 10	12	< 10	7	67		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	31	3.44	< 10	4	0.37	18	0.43	0.173	0.033	4.69	114	2	18			< 2	< 10	13	< 10	7	64		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	35	3.40	10	4	0.39	20	0.43	0.188	0.033	4.78	121	2	20			5	< 10	13	< 10	8	68		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
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OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.07	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.35
GS316-3 Cert																						0.0600	0.340

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
1230063001 Orig																							
1230063001 Dup																							
1230063027 Orig																						0.34	0.44
1230063027 Dup																						0.34	0.44
GC20-1013-004 Orig	161	4.24	< 10	< 1	0.23	15	1.09	0.049	0.039	3.64	< 2	< 1	36	< 0.01	1	< 2	< 10	8	< 10	3	19		
GC20-1013-004 Dup	154	4.04	< 10	< 1	0.22	13	1.05	0.049	0.037	3.49	< 2	< 1	34	< 0.01	5	< 2	< 10	8	< 10	3	18		
GC20-0949-006 Orig																							
GC20-0949-006 Dup																							
GC20-0948-004 Orig																							
GC20-0948-004 Dup																							
GC20-1004-005	217	3.49	< 10	< 1	0.27	10	1.45	0.049	0.042	3.28	< 2	1	38	< 0.01	3	< 2	< 10	9	< 10	2	20		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Orig																							
GC20-1004-005 Dup	215	3.37	< 10	< 1	0.26	10	1.40	0.050	0.042	3.20	2	< 1	38	< 0.01	2	< 2	< 10	9	< 10	2	20		
GC20-1009-001 Orig																							
GC20-1009-001 Dup																							
1323008199 Orig																						0.30	1.51
1323008199 Dup																						0.30	1.51
GC20-0293-001 Orig	179	1.65	< 10	< 1	0.24	14	0.34	0.023	0.053	1.47	< 2	< 1	20	< 0.01	1	< 2	< 10	4	< 10	1	4		
GC20-0293-001 Dup	178	1.62	< 10	< 1	0.25	14	0.35	0.025	0.052	1.47	< 2	< 1	20	< 0.01	2	< 2	< 10	4	< 10	1	4		
1323008213 Orig																							
1323008213 Dup																							
GC20-0247-007 Orig	71	1.75	< 10	< 1	0.24	14	0.55	0.092	0.039	0.93	< 2	< 1	52	< 0.01	1	< 2	< 10	6	< 10	2	6		
GC20-0247-007 Dup	74	1.83	< 10	< 1	0.26	15	0.58	0.098	0.040	0.95	< 2	< 1	55	< 0.01	< 1	< 2	< 10	6	< 10	2	6		
1323009030 Orig																							
1323009030 Dup																							
1323012315 Orig																						0.33	0.77
1323012315 Dup																						0.33	0.77
GC20-1030-001 Orig	196	2.69	< 10	< 1	0.22	11	0.69	0.114	0.036	2.10	< 2	< 1	71	0.01	4	< 2	< 10	10	< 10	2	14		
GC20-1030-001 Dup	196	2.62	< 10	< 1	0.20	11	0.67	0.105	0.036	2.02	< 2	< 1	65	0.01	< 1	< 2	< 10	9	< 10	2	13		
GC20-0966-004 Orig																							
GC20-0966-004 Dup																							
1323008009 Orig	197	2.94	< 10	< 1	0.20	13	1.59	0.120	0.037	1.94	< 2	1	51	0.01	< 1	< 2	< 10	14	< 10	2	20		
1323008009 Dup	199	3.00	< 10	< 1	0.21	13	1.61	0.116	0.037	1.92	< 2	1	52	0.02	1	< 2	< 10	15	< 10	2	20		
1323008057 Orig																						0.28	1.49
1323008057 Dup																						0.29	1.44
1432097047 Orig																							
1432097047 Dup																							
GC20-0964-005 Orig																							
GC20-0964-005 Dup																							
1230067069 Orig	246	2.31	< 10	< 1	0.20	15	1.18	0.098	0.044	1.11	< 2	2	30	0.03	< 1	< 2	< 10	19	< 10	3	12		
1230067069 Dup	252	2.33	< 10	< 1	0.21	15	1.18	0.096	0.044	1.07	< 2	2	30	0.03	2	< 2	< 10	19	< 10	3	11		
1323010160 Orig																						0.14	0.75
1323010160 Dup																						0.17	0.88
GC20-0336-014 Orig																							
GC20-0870-019 Orig	996	5.34	< 10	< 1	0.32	24	4.27	0.052	0.098	1.29	9	4	35	0.13	3	< 2	< 10	75	< 10	2	11		
GC20-0870-019 Dup	1000	5.33	< 10	2	0.32	24	4.29	0.053	0.098	1.27	4	4	36	0.14	< 1	< 2	< 10	77	< 10	2	11		
1230067002 Orig																						0.35	0.55
1230067002 Dup																						0.34	0.56
1323022019 Orig																							
1323022019 Dup																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1323022108 Orig	140	2.66	< 10	< 1	0.18	14	0.91	0.063	0.039	2.43	< 2	< 1	76	< 0.01	3	< 2	< 10	7	< 10	2	19		
1323022108 Dup	140	2.62	< 10	< 1	0.17	13	0.89	0.060	0.040	2.38	< 2	< 1	73	< 0.01	1	< 2	< 10	7	< 10	2	20		
1323021127 Orig																						0.14	1.95
1323021127 Dup																						0.14	1.89
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.006	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.006	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.005	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank																							
Method Blank																							



Report No.: A20-12877
Report Date: 18-Dec-20
Date Submitted: 16-Oct-20
Your Reference: 2020 September Check Assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

140 Pulp samples were submitted for analysis.

Table with 3 columns: Analytical package requested, Test name, and Testing Date. Rows include 1A2-50-Tbay, 1E3-Tbay NewGold, QOP AA-Au (Au - Fire Assay AA), and QOP AquaGeo (Aqua Regia ICPOES).

REPORT A20-12877

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
Values which exceed the upper limit should be assayed for accurate numbers.
Footnote: Footnote: Sample F001540 and F001582 was insufficient for further analysis

CERTIFIED BY:

<original signed by>

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

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E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Report No.: A20-12877
Report Date: 18-Dec-20
Date Submitted: 16-Oct-20
Your Reference: 2020 September Check Assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

140 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek Package	Acid Base Accounting	2020-11-24 21:39:16
4F-C, S	Infrared	2020-11-19 21:37:51

REPORT A20-12877

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

Footnote: Footnote: Sample F001540 and F001582 was insufficient for further analysis

CERTIFIED BY:

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Emmanuel Esemé, Ph.D.
Quality Control Coordinator

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS311-4 Cert																							
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GS311-4 Cert																							
GS311-4 Meas																							
NBM-1 (slight fzz) Meas		43.7				8.62																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.7				8.57																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.7				8.08																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.7				8.18																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.6				8.60																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.6				8.28																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.7																					
NBM-1 (slight fzz)		46.6																					

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Cert																							
NBM-1 (slight fzz) Meas		43.8																					
NBM-1 (slight fzz) Cert		46.6																					
NBM-1 (slight fzz) Meas		43.7																					
NBM-1 (slight fzz) Cert		46.6																					
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2230	754	< 1	36	58	252	2.88	4		75	0.6	5	0.40	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								1.0	< 0.5	2240	763	< 1	37	58	255	2.88	5		79	0.6	7	0.40	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								1.2	< 0.5	2260	773	< 1	34	59	256	2.82	5		77	0.6	10	0.39	20
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2180	777	< 1	35	64	260	2.87	6		79	0.7	7	0.41	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								1.3	< 0.5	2130	773	< 1	35	61	253	2.91	6		84	0.7	9	0.42	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								1.5	< 0.5	4260	851	< 1	30	74	322	2.85	6		55	0.6	11	0.40	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.7	< 0.5	4380	858	< 1	33	78	322	2.86	6		60	0.6	16	0.40	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.5	< 0.5	4300	866	< 1	31	80	328	2.84	5		64	0.6	17	0.40	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923								2.3	< 0.5	4360	871	< 1	34	79	329	2.82	8		63	0.6	26	0.41	21

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
(AQUA REGIA) Meas																							
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								3.4	< 0.5	4330	872	< 1	31	78	329	2.91	6		70	0.7	22	0.42	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 621 (Aqua Regia) Meas								66.5	278	3620	529	12	24	> 5000	> 10000	1.79	74			0.5	< 2	1.66	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								66.6	279	3660	524	12	27	> 5000	> 10000	1.80	75			0.5	3	1.65	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								67.7	279	3690	531	12	27	> 5000	> 10000	1.73	74			< 0.5	< 2	1.64	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								67.5	283	3500	539	13	26	> 5000	> 10000	1.70	75			0.6	8	1.68	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								67.3	284	3480	548	13	28	> 5000	> 10000	1.82	76			0.6	8	1.72	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 238 (Fire Assay) Meas								3130															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3060															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3090															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								2960															
OREAS 238 (Fire Assay) Cert								3030															
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
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GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS316-3 Meas																							
GS316-3 Cert																							
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Oreas E1336 (Fire Assay) Meas							514																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							515																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							514																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							508																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							519																
Oreas E1336 (Fire Assay) Cert							510																
1230062003 Orig								3.4	2.5	22	1080	< 1	12	228	609	1.00	53	< 10	25	< 0.5	< 2	1.91	8
1230062003 Dup								3.5	2.3	23	1060	< 1	11	223	589	0.97	52	< 10	25	< 0.5	3	1.88	8
1432197120 Orig						8.67																	
1432197120 Dup						8.65																	
GC20-0297-013 Orig							135																
GC20-0297-013 Dup							129																

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
1432097043 Orig																								
1432097043 Dup																								
1230065215 Orig								659																
1230065215 Dup								664																
1333096191 Orig								0.3	1.0	40	571	1	23	5	321	2.79	13	< 10	46	< 0.5	< 2	1.97	13	
1333096191 Dup								0.3	1.0	37	566	2	24	5	328	2.77	9	< 10	46	< 0.5	< 2	1.95	13	
1230062213 Orig	38.9	2.86	-36.1	43.8	0.0654																			
1230062213 Dup	38.9	2.87	-36.1	43.8	0.0656																			
1230061058 Orig																								
1230061058 Dup																								
1230062230 Orig								115																
1230062230 Dup								108																
GC20-0284-001 Orig								0.9	0.8	17	3610	< 1	9	21	226	0.87	47	< 10	23	< 0.5	< 2	0.47	8	
GC20-0284-001 Dup								0.8	0.8	17	3660	< 1	8	21	232	0.89	48	< 10	23	< 0.5	< 2	0.48	8	
1323005026 Orig																								
1323005026 Dup																								
1324027005 Orig								100																
1324027005 Dup								97																
GC20-0277-007 Orig								0.5	< 0.5	17	575	< 1	10	9	84	0.88	55	< 10	35	< 0.5	< 2	2.00	7	
GC20-0277-007 Dup								0.4	< 0.5	17	585	< 1	12	8	82	0.87	55	< 10	35	< 0.5	< 2	2.02	7	
1324022058 Orig								476																
1324022058 Dup								419																
1324022013 Orig								182																
1324022013 Dup								177																
1324024109 Orig								< 0.2	< 0.5	51	342	1	10	3	59	1.97	6	< 10	38	< 0.5	< 2	0.75	7	
1324024109 Dup								0.2	< 0.5	54	352	1	11	3	61	2.01	5	< 10	39	< 0.5	< 2	0.76	7	
1324028011 Orig																								
1324028011 Dup																								
1324028043 Orig	27.3	16.1	-11.2	30.9	0.520																			
1324028043 Dup	27.3	16.1	-11.2	30.9	0.520																			
1322001026 Orig								116																
1322001026 Dup								132																
1324027070 Orig								115																
1324027070 Dup								110																
GC20-0942-013 Orig								1.1	1.0	6	122	< 1	13	18	229	0.51	27	< 10	23	< 0.5	< 2	0.41	10	
GC20-0942-013 Dup								1.1	1.0	6	124	< 1	14	17	234	0.50	27	< 10	20	< 0.5	< 2	0.42	10	
1324021018 Orig								50	0.2	< 0.5	78	251	< 1	14	< 2	60	1.61	3	< 10	36	< 0.5	< 2	0.64	7
1324021018 Dup								45	0.3	< 0.5	77	258	< 1	14	< 2	60	1.65	4	< 10	36	< 0.5	< 2	0.65	7
1324028077 Orig																								
1324028077 Dup																								
1324024085 Orig								1920																
1324024085 Dup								1660																
1324021105 Orig								36																
1324021105 Dup								38																

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1324027028 Orig																							
1324027028 Dup																							
1333096096 Orig						8.77		< 0.2	< 0.5	39	447	< 1	12	7	115	2.37	6	< 10	51	< 0.5	< 2	1.05	11
1333096096 Dup						8.77		< 0.2	< 0.5	38	449	< 1	14	7	109	2.39	7	< 10	52	< 0.5	< 2	1.06	11
1230065108 Orig																							
1230065108 Dup																							
GC20-0957-010 Orig								1.6	< 0.5	30	1130	1	11	8	59	1.41	32	< 10	40	< 0.5	< 2	2.60	7
GC20-0957-010 Dup								1.8	< 0.5	29	1140	1	10	8	62	1.36	31	< 10	39	< 0.5	< 2	2.61	7
1230065095 Orig							5																
1230065095 Dup							< 5																
1324026059 Orig							714																
1324026059 Dup							615																
1230065231 Orig								0.3	< 0.5	23	1050	< 1	14	10	58	2.57	6	< 10	52	< 0.5	< 2	2.43	7
1230065231 Dup								0.4	< 0.5	23	1060	2	14	9	56	2.56	5	< 10	52	< 0.5	< 2	2.44	7
1230065188 Orig	0.938	63.6	62.7	0.919	69.2		< 5																
1230065188 Dup	0.938	63.6	62.7	0.919	69.2		< 5																
1230065062 Orig																							
1230065062 Dup																							
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							5																
Method Blank							< 5																
Method Blank							6																
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S			
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%			
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01			
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS			
GS311-4 Cert																							1.11	0.54		
GS311-4 Meas																								1.05	0.54	
GS311-4 Cert																								1.11	0.54	
GS311-4 Meas																								1.07	0.56	
GS311-4 Cert																								1.11	0.54	
GS311-4 Meas																								1.06	0.55	
GS311-4 Cert																								1.11	0.54	
GS311-4 Meas																								1.08	0.54	
GS311-4 Cert																								1.11	0.54	
GS311-4 Meas																								1.07	0.52	
GS311-4 Cert																								1.11	0.54	
GS311-4 Meas																								1.06	0.54	
GS311-4 Cert																								1.11	0.54	
GS311-4 Meas																								1.07	0.53	
GS311-4 Cert																								1.11	0.54	
GS311-4 Meas																								1.07	0.53	
GS311-4 Cert																								1.11	0.54	
GS311-4 Meas																								1.08	0.53	
GS311-4 Cert																								1.11	0.54	
GS311-4 Meas																								1.07	0.52	
GS311-4 Cert																								1.11	0.54	
GS311-4 Meas																								1.08	0.53	
GS311-4 Cert																								1.11	0.54	
GS311-4 Meas																								1.07	0.52	
NBM-1 (slight fzz) Meas																										
NBM-1 (slight fzz) Cert																										
NBM-1 (slight fzz) Meas																										
NBM-1 (slight fzz) Cert																										
NBM-1 (slight fzz) Meas																										
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NBM-1 (slight fzz) Cert																										
NBM-1 (slight fzz) Meas																										

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	43	5.06	< 10		0.48	36	1.30	0.023	0.061	0.37	< 2	4	16			< 2	< 10	34	< 10	20	16		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	44	5.12	< 10		0.48	36	1.31	0.025	0.061	0.37	3	4	16			< 2	< 10	34	< 10	20	16		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	43	5.13	< 10		0.44	36	1.31	0.023	0.062	0.37	< 2	4	16			< 2	< 10	34	< 10	19	23		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	45	5.31	< 10		0.46	36	1.33	0.032	0.062	0.38	< 2	4	16			< 2	< 10	35	< 10	20	24		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	44	5.16	< 10		0.48	36	1.30	0.034	0.059	0.38	2	4	16			< 2	< 10	35	< 10	21	19		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 923 (AQUA REGIA) Meas	40	5.79	< 10		0.40	32	1.37		0.057	0.67	< 2	4	14			< 2	< 10	33	< 10	18	24		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	40	5.83	< 10		0.41	33	1.38		0.058	0.68	< 2	4	14			< 2	< 10	34	< 10	18	28		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	40	5.86	< 10		0.39	32	1.39		0.058	0.65	3	4	14			< 2	< 10	33	< 10	18	21		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	40	6.05	< 10		0.39	32	1.41		0.058	0.69	4	4	14			< 2	< 10	34	< 10	18	29		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	41	5.96	< 10		0.42	33	1.40		0.057	0.69	3	4	14			< 2	< 10	35	< 10	19	24		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 621 (Aqua Regia) Meas	28	3.42	< 10	3	0.39	19	0.43	0.185	0.032	4.62	97	2	18			< 2	< 10	13	< 10	8	52		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	33	3.42	< 10	4	0.39	20	0.43	0.185	0.032	4.57	107	2	18			< 2	< 10	13	< 10	8	61		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	33	3.42	< 10	3	0.36	20	0.43	0.181	0.033	4.59	103	2	18			< 2	< 10	12	< 10	7	67		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	31	3.44	< 10	4	0.37	18	0.43	0.173	0.033	4.69	114	2	18			< 2	< 10	13	< 10	7	64		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	35	3.40	10	4	0.39	20	0.43	0.188	0.033	4.78	121	2	20			5	< 10	13	< 10	8	68		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.07	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
GS316-3 Cert																						0.0600	0.340	
GS316-3 Meas																							0.06	0.34
GS316-3 Cert																							0.0600	0.340
GS316-3 Meas																							0.05	0.33
GS316-3 Cert																							0.0600	0.340
GS316-3 Meas																							0.06	0.33
GS316-3 Cert																							0.0600	0.340
GS316-3 Meas																							0.06	0.33
GS316-3 Cert																							0.0600	0.340
GS316-3 Meas																							0.06	0.33
GS316-3 Cert																							0.0600	0.340
GS316-3 Meas																							0.06	0.33
GS316-3 Cert																							0.0600	0.340
GS316-3 Meas																							0.06	0.33
GS316-3 Cert																							0.0600	0.340
GS316-3 Meas																							0.06	0.33
GS316-3 Cert																							0.0600	0.340
Oreas E1336 (Fire Assay) Meas																								
Oreas E1336 (Fire Assay) Cert																								
Oreas E1336 (Fire Assay) Meas																								
Oreas E1336 (Fire Assay) Cert																								
Oreas E1336 (Fire Assay) Meas																								
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Oreas E1336 (Fire Assay) Cert																								
Oreas E1336 (Fire Assay) Meas																								
Oreas E1336 (Fire Assay) Cert																								
1230062003 Orig	163	2.03	< 10	< 1	0.22	14	0.54	0.017	0.040	1.48	3	< 1	20	< 0.01	4	< 2	< 10	5	< 10	1	6			
1230062003 Dup	165	2.03	< 10	< 1	0.23	14	0.54	0.017	0.039	1.41	< 2	< 1	19	< 0.01	< 1	< 2	< 10	5	< 10	1	6			
1432197120 Orig																								
1432197120 Dup																								
GC20-0297-013 Orig																								
GC20-0297-013 Dup																								
1432097043 Orig																							0.51	0.51
1432097043 Dup																							0.51	0.54
1230065215 Orig																								
1230065215 Dup																								
1333096191 Orig	192	2.80	< 10	< 1	0.27	12	0.94	0.233	0.037	1.10	< 2	2	104	0.07	< 1	< 2	< 10	26	< 10	4	5			
1333096191 Dup	192	2.79	< 10	< 1	0.26	12	0.93	0.231	0.038	1.08	3	2	102	0.07	< 1	< 2	< 10	26	< 10	4	5			
1230062213 Orig																								
1230062213 Dup																								
1230061058 Orig																							0.66	0.92
1230061058 Dup																							0.67	0.95
1230062230 Orig																								

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
1230062230 Dup																								
GC20-0284-001 Orig	119	2.28	< 10	< 1	0.21	16	0.41	0.024	0.045	1.07	< 2	< 1	11	< 0.01	< 1	< 2	< 10	6	16	1	5			
GC20-0284-001 Dup	125	2.33	< 10	< 1	0.22	16	0.43	0.025	0.045	1.09	3	< 1	11	< 0.01	< 1	< 2	< 10	6	16	1	5			
1323005026 Orig																							0.38	2.25
1323005026 Dup																							0.37	2.25
1324027005 Orig																								
1324027005 Dup																								
GC20-0277-007 Orig	117	1.41	< 10	< 1	0.27	14	0.46	0.027	0.039	1.09	< 2	< 1	18	< 0.01	< 1	< 2	< 10	5	< 10	2	5			
GC20-0277-007 Dup	118	1.44	< 10	< 1	0.26	14	0.46	0.026	0.039	1.11	< 2	< 1	18	< 0.01	< 1	< 2	< 10	5	< 10	2	6			
1324022058 Orig																								
1324022058 Dup																								
1324022013 Orig																							0.05	0.16
1324022013 Dup																							0.05	0.16
1324024109 Orig	165	3.33	< 10	< 1	0.19	12	1.11	0.038	0.036	0.72	3	< 1	24	< 0.01	5	< 2	< 10	11	< 10	2	6			
1324024109 Dup	170	3.41	< 10	< 1	0.19	12	1.14	0.039	0.037	0.73	< 2	< 1	24	< 0.01	5	< 2	< 10	11	< 10	2	7			
1324028011 Orig																							0.27	1.30
1324028011 Dup																							0.27	1.28
1324028043 Orig																								
1324028043 Dup																								
1322001026 Orig																								
1322001026 Dup																								
1324027070 Orig																								
1324027070 Dup																								
GC20-0942-013 Orig	122	2.49	< 10	< 1	0.30	11	0.03	0.012	0.042	2.82	< 2	< 1	35	< 0.01	< 1	< 2	< 10	4	< 10	2	23			
GC20-0942-013 Dup	128	2.53	< 10	< 1	0.30	11	0.03	0.012	0.043	2.83	< 2	< 1	34	< 0.01	< 1	< 2	< 10	4	< 10	2	23			
1324021018 Orig	249	2.15	< 10	< 1	0.13	15	0.95	0.107	0.040	1.41	3	< 1	49	< 0.01	2	< 2	< 10	10	< 10	2	10			
1324021018 Dup	254	2.21	< 10	< 1	0.13	16	0.98	0.110	0.041	1.43	4	< 1	50	< 0.01	5	< 2	< 10	10	< 10	2	9			
1324028077 Orig																							0.48	2.36
1324028077 Dup																							0.48	2.31
1324024085 Orig																								
1324024085 Dup																								
1324021105 Orig																								
1324021105 Dup																								
1324027028 Orig																							0.33	3.73
1324027028 Dup																							0.33	3.63
1333096096 Orig	145	2.74	< 10	< 1	0.24	21	1.08	0.102	0.048	0.39	2	2	51	0.08	< 1	< 2	< 10	28	< 10	5	3			
1333096096 Dup	146	2.73	< 10	< 1	0.24	21	1.08	0.104	0.050	0.38	3	2	52	0.08	< 1	< 2	< 10	28	< 10	5	4			
1230065108 Orig																							0.24	1.10
1230065108 Dup																							0.25	1.10
GC20-0957-010 Orig	106	1.43	< 10	< 1	0.29	15	0.35	0.156	0.041	1.34	2	< 1	83	< 0.01	< 1	< 2	< 10	7	< 10	3	5			
GC20-0957-010 Dup	107	1.44	< 10	< 1	0.27	17	0.35	0.152	0.042	1.34	< 2	< 1	82	< 0.01	3	< 2	< 10	6	< 10	3	7			
1230065095 Orig																								
1230065095 Dup																								
1324026059 Orig																								
1324026059 Dup																								

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1230065231 Orig	192	1.81	< 10	< 1	0.38	14	1.30	0.265	0.038	0.72	3	2	108	0.04	2	< 2	< 10	18	< 10	2	7		
1230065231 Dup	190	1.79	< 10	< 1	0.38	14	1.30	0.264	0.038	0.70	3	2	110	0.04	< 1	< 2	< 10	18	< 10	3	7		
1230065188 Orig																							
1230065188 Dup																							
1230065062 Orig																						0.36	0.24
1230065062 Dup																						0.45	0.48
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.006	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.006	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.006	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.005	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	1	< 2	< 10	< 1	< 10	< 1	< 1		



Report No.: A20-12879
Report Date: 18-Dec-20
Date Submitted: 16-Oct-20
Your Reference: 2020 September Check Assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

141 Pulp samples were submitted for analysis.

Table with 3 columns: The following analytical package(s) were requested, Testing Date, and details of packages like 1A2-50-Tbay and 1E3-Tbay NewGold.

REPORT A20-12879

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

Footnote: Sample F001577 was insufficient for further analysis

CERTIFIED BY:

<original signed by>

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
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TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
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Report No.: A20-12879
Report Date: 18-Dec-20
Date Submitted: 16-Oct-20
Your Reference: 2020 September Check Assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

141 Pulp samples were submitted for analysis.

Table with 3 columns: The following analytical package(s) were requested, Testing Date, and details of packages like 11 ABA Modified Sobek Package and 4F-C, S.

REPORT A20-12879

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
Values which exceed the upper limit should be assayed for accurate numbers.
Footnote: Sample F001577 was insufficient for further analysis

CERTIFIED BY:

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Emmanuel Esemé, Ph.D.
Quality Control Coordinator

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Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GC20-0196-014	178	2.17	< 10	< 1	0.21	10	1.04	0.098	0.036	0.57	3	1	76	< 0.01	7	< 2	< 10	13	< 10	2	5		
1323009320	194	3.30	< 10	< 1	0.19	15	1.31	0.026	0.043	2.17	3	< 1	13	0.04	3	< 2	< 10	10	< 10	3	13	0.20	2.06
GC20-0207-018	91	3.17	< 10	< 1	0.25	12	1.28	0.163	0.037	2.87	2	1	106	< 0.01	4	< 2	< 10	11	< 10	3	19		
1323012232	233	2.44	< 10	< 1	0.15	13	1.23	0.238	0.036	1.36	5	< 1	146	< 0.01	4	< 2	< 10	10	< 10	3	4	0.15	1.32
F001807	12	2.05	< 10	< 1	0.25	12	0.44	0.243	0.034	0.03	< 2	2	33	0.34	3	< 2	< 10	46	< 10	17	12		
GC20-0983-004	168	4.18	< 10	< 1	0.08	< 10	1.87	0.574	0.019	0.07	< 2	7	65	0.19	< 1	< 2	< 10	102	< 10	5	2		
GC20-1000-001	163	3.76	< 10	< 1	0.16	12	0.65	0.036	0.064	3.62	2	1	32	0.01	2	< 2	< 10	8	< 10	2	15		
GC20-0972-001	188	1.86	< 10	< 1	0.19	< 10	0.41	0.014	0.037	1.83	3	< 1	26	< 0.01	< 1	< 2	< 10	3	< 10	2	6		
GC20-1005-011	232	2.98	< 10	< 1	0.16	14	1.11	0.133	0.040	1.81	3	1	61	0.01	4	< 2	< 10	13	< 10	2	12		
GC20-0990-001	227	1.85	< 10	< 1	0.29	16	0.77	0.037	0.039	1.14	2	< 1	36	< 0.01	< 1	< 2	< 10	8	< 10	1	6		
GC20-1003-001	155	2.79	< 10	< 1	0.25	11	0.98	0.125	0.038	2.15	3	< 1	54	0.02	< 1	< 2	< 10	9	< 10	2	13		
GC20-1007-004	186	4.64	< 10	< 1	0.23	15	1.40	0.028	0.043	4.31	2	< 1	24	< 0.01	7	< 2	< 10	9	< 10	3	20		
GC20-1006-008	257	2.59	< 10	< 1	0.15	13	1.33	0.197	0.036	0.79	2	1	81	0.02	< 1	< 2	< 10	15	< 10	2	7		
1323009246	259	1.86	< 10	< 1	0.34	38	0.77	0.108	0.062	0.68	< 2	1	122	< 0.01	< 1	< 2	< 10	11	< 10	5	3	0.55	0.62
GC20-0999-001	197	1.83	< 10	< 1	0.23	17	0.63	0.052	0.037	1.03	2	< 1	46	0.01	< 1	< 2	< 10	9	< 10	2	6		
1323008223	186	4.28	< 10	< 1	0.03	< 10	1.51	0.613	0.021	0.12	2	5	70	0.19	4	< 2	< 10	126	< 10	5	3	0.15	0.13
GC20-0982-003	131	4.22	< 10	< 1	0.05	< 10	1.50	0.685	0.019	0.11	< 2	6	61	0.17	3	< 2	< 10	124	< 10	5	3		
GC20-0981-009FD	131	4.12	< 10	< 1	0.05	< 10	1.50	0.719	0.018	0.08	3	6	60	0.17	3	< 2	< 10	123	< 10	5	3		
1323008007	106	3.27	< 10	< 1	0.23	12	1.91	0.109	0.038	2.20	< 2	1	42	0.03	6	< 2	< 10	18	< 10	3	26	0.16	1.45
GC20-0968-009	129	1.89	< 10	< 1	0.30	13	0.63	0.013	0.038	1.79	3	< 1	20	< 0.01	< 1	< 2	< 10	4	< 10	2	8		
1323008104	247	2.03	< 10	< 1	0.30	53	0.81	0.083	0.086	0.43	< 2	2	141	0.02	< 1	< 2	< 10	21	< 10	5	2	0.71	0.41
1323008297	239	2.29	< 10	< 1	0.17	16	1.02	0.176	0.048	1.51	< 2	< 1	74	0.03	1	< 2	< 10	11	< 10	3	3	0.21	1.37
GC20-0971-001	198	5.39	< 10	< 1	0.20	< 10	0.18	0.016	0.033	6.25	5	< 1	13	< 0.01	< 1	< 2	< 10	4	< 10	1	16		
GC20-0973-005	139	1.81	< 10	< 1	0.30	15	0.54	0.031	0.040	1.16	2	< 1	17	0.05	< 1	< 2	< 10	9	< 10	2	16		
F001808	12	2.06	< 10	< 1	0.25	12	0.44	0.240	0.035	0.03	< 2	2	33	0.35	4	< 2	< 10	48	< 10	17	14		
GC20-1041-007	103	2.35	< 10	< 1	0.22	15	0.87	0.096	0.036	1.97	2	< 1	101	< 0.01	2	< 2	< 10	8	< 10	3	18		
GC20-0823-021	133	2.38	< 10	< 1	0.27	20	1.21	0.080	0.047	1.54	< 2	2	59	0.06	1	< 2	< 10	21	< 10	4	9		
1323011085	184	2.94	< 10	< 1	0.17	12	1.43	0.118	0.038	2.03	< 2	1	56	0.03	< 1	< 2	< 10	15	< 10	3	11	0.22	1.88
GC20-0314-001	147	1.99	< 10	< 1	0.29	15	0.23	0.033	0.043	2.14	< 2	< 1	18	< 0.01	< 1	< 2	< 10	5	< 10	1	11		
GC20-1042-003	128	3.00	< 10	< 1	0.17	11	1.15	0.061	0.038	2.33	2	< 1	72	< 0.01	< 1	< 2	< 10	10	< 10	2	15		
GC20-1042-002	93	2.51	< 10	< 1	0.19	10	1.29	0.093	0.033	1.65	2	1	97	< 0.01	< 1	< 2	< 10	10	< 10	2	14		
1323011091	211	2.74	< 10	< 1	0.16	< 10	0.92	0.249	0.036	1.90	3	1	102	0.02	4	< 2	< 10	12	< 10	2	13	0.21	1.79
1432089433	103	8.01	< 10	< 1	0.17	< 10	2.18	0.049	0.057	0.64	5	10	56	0.09	< 1	< 2	< 10	122	< 10	9	7	2.34	0.68
1432089303	163	6.23	10	< 1	0.43	19	2.53	0.286	0.056	0.63	4	10	122	0.10	< 1	< 2	< 10	119	< 10	10	11	1.83	0.66
1432089213	140	7.81	10	< 1	0.18	< 10	2.17	0.186	0.071	0.64	5	16	76	0.15	< 1	< 2	< 10	182	< 10	13	6	1.20	0.68
1230063129	98	2.44	< 10	< 1	0.38	23	1.07	0.161	0.057	0.81	< 2	2	75	0.10	< 1	< 2	< 10	28	< 10	4	10	0.32	0.70
1230063018	354	2.95	< 10	< 1	0.44	33	1.19	0.102	0.072	0.82	3	4	50	0.13	1	< 2	< 10	44	< 10	5	12	0.49	0.76
1230063065	116	2.82	< 10	< 1	0.23	< 10	1.18	0.312	0.031	0.28	< 2	3	48	0.13	< 1	< 2	< 10	57	< 10	4	9	0.15	0.27
GC20-1047-008	135	3.40	< 10	< 1	0.27	16	1.14	0.031	0.044	3.10	2	< 1	23	< 0.01	1	< 2	< 10	8	< 10	3	19		

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
1323006165	
1230065160	
1323006090	
GC20-0300-021	
GC20-0299-001	
1432097332	
1432097108	
1230065088	
F001583	
GC20-0209-017	
1323007245	
1323008243	
1323007217	
1323007273	
GC20-0209-016	
1323016002	
1323016105	
GC20-0304-013	
1323007227	
1323007254	
1323007001	
GC20-0972-026	
1432097239	
1323007085	
1432097097	
1230064079	
1230064040	
1230064005	
1323007027	
1323007150	
1323007275	
1230064071	
1230064028	
1323007041	
1230064147	
1323007172	
1230064210	
F001578	
1323007168	
1230064239	
1230064262	
1230064312	
1230064232	
1432097378	
1323006088	
1432097249	
1323006270	
1324026095	
1230064185	
1323007139	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
1323006001	
1230064215	
1230064325	
1230064126	
1230064110	
1230064124	
1323007135	
1230064167	
F001577	
1230063407	
1323011120	
1230063490	
1323011103	
1323011123	
1323011013	
1323011012	
1323011036	
1323011056	
GC20-1039-008	
1230063208	
1230063051	
GC20-1040-003	
1230063133	
1230063149	
1230063026	
1230063191	
GC20-1045-002	
1230063221	
1323011098	
1323011001	
F001810	
GC20-0817-026	
GC20-0153-014	
GC20-0953-022	
GC20-1020-001	
GC20-0157-016	
GC20-1022-001	
1323009118	
1323009372	
1323009334	
1323012258	
GC20-0213-014	
GC20-1024-002	
GC20-1030-017	
GC20-1028-001	
GC20-1028-017	
GC20-1027-018	
GC20-0963-015	
1323012279	
1323012212	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
1323009146	
GC20-1027-001	
GC20-0196-014	
1323009320	
GC20-0207-018	
1323012232	
F001807	
GC20-0983-004	
GC20-1000-001	
GC20-0972-001	
GC20-1005-011	
GC20-0990-001	
GC20-1003-001	
GC20-1007-004	
GC20-1006-008	
1323009246	
GC20-0999-001	
1323008223	
GC20-0982-003	
GC20-0981- 009FD	
1323008007	
GC20-0968-009	
1323008104	
1323008297	
GC20-0971-001	
GC20-0973-005	
F001808	
GC20-1041-007	
GC20-0823-021	
1323011085	
GC20-0314-001	
GC20-1042-003	
GC20-1042-002	
1323011091	29.1
1432089433	
1432089303	
1432089213	
1230063129	
1230063018	
1230063065	
GC20-1047-008	

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
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GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
NBM-1 (slight fzz) Meas		43.7				8.62																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.7				8.57																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.7				8.08																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.7				8.18																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.6				8.60																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.6				8.28																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.7																					
NBM-1 (slight fzz)		46.6																					

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Cert																							
NBM-1 (slight fzz) Meas		43.8																					
NBM-1 (slight fzz) Cert		46.6																					
NBM-1 (slight fzz) Meas		43.7																					
NBM-1 (slight fzz) Cert		46.6																					
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2230	754	< 1	36	58	252	2.88	4		75	0.6	5	0.40	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								1.0	< 0.5	2240	763	< 1	37	58	255	2.88	5		79	0.6	7	0.40	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								1.2	< 0.5	2260	773	< 1	34	59	256	2.82	5		77	0.6	10	0.39	20
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2180	777	< 1	35	64	260	2.87	6		79	0.7	7	0.41	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								1.3	< 0.5	2130	773	< 1	35	61	253	2.91	6		84	0.7	9	0.42	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								1.5	< 0.5	4260	851	< 1	30	74	322	2.85	6		55	0.6	11	0.40	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.7	< 0.5	4380	858	< 1	33	78	322	2.86	6		60	0.6	16	0.40	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.5	< 0.5	4300	866	< 1	31	80	328	2.84	5		64	0.6	17	0.40	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923								2.3	< 0.5	4360	871	< 1	34	79	329	2.82	8		63	0.6	26	0.41	21

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
(AQUA REGIA) Meas																							
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								3.4	< 0.5	4330	872	< 1	31	78	329	2.91	6		70	0.7	22	0.42	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 621 (Aqua Regia) Meas								66.5	278	3620	529	12	24	> 5000	> 10000	1.79	74			0.5	< 2	1.66	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								66.6	279	3660	524	12	27	> 5000	> 10000	1.80	75			0.5	3	1.65	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								67.7	279	3690	531	12	27	> 5000	> 10000	1.73	74			< 0.5	< 2	1.64	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								67.5	283	3500	539	13	26	> 5000	> 10000	1.70	75			0.6	8	1.68	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								67.3	284	3480	548	13	28	> 5000	> 10000	1.82	76			0.6	8	1.72	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 229b (Fire Assay) Meas																							
OREAS 229b (Fire Assay) Cert																							
OREAS 229b (Fire Assay) Meas																							
OREAS 229b (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas								3040															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3140															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3130															
OREAS 238 (Fire Assay) Cert								3030															
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GC20-1007-004 Orig							178																
GC20-1007-004 Dup							156																
1323008223 Orig						8.83																	
1323008223 Dup						8.87																	
1323008104 Orig								< 0.2	< 0.5	37	530	< 1	27	4	75	1.47	< 2	< 10	52	< 0.5	< 2	2.32	8
1323008104 Dup								< 0.2	< 0.5	38	532	< 1	29	5	74	1.51	2	< 10	84	< 0.5	< 2	2.31	9
1323008297 Orig							285																
1323008297 Dup							307																
1432089303 Orig																							
1432089303 Dup																							
1432089213 Orig								0.3	< 0.5	50	1020	< 1	45	5	158	3.56	8	< 10	36	< 0.5	< 2	3.70	30
1432089213 Dup								0.3	< 0.5	50	1020	< 1	43	5	157	3.61	4	< 10	37	< 0.5	< 2	3.73	30
1230063018 Orig						9.18																	
1230063018 Dup						9.19																	
1230063065 Orig	8.44	8.84	0.402	8.27	1.07																		
1230063065 Dup	8.44	8.86	0.424	8.27	1.07																		
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 5															
Method Blank							< 5																
Method Blank																							
Method Blank																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
GS311-4 Cert																						1.11	0.54	
GS311-4 Meas																							1.05	0.54
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.07	0.56
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.06	0.55
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.08	0.54
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.07	0.52
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.06	0.54
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.07	0.53
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.07	0.52
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.07	0.52
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.08	0.53
GS311-4 Cert																							1.11	0.54
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
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NBM-1 (slight fzz) Cert																								
NBM-1 (slight fzz) Meas																								

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	43	5.06	< 10		0.48	36	1.30	0.023	0.061	0.37	< 2	4	16			< 2	< 10	34	< 10	20	16		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	44	5.12	< 10		0.48	36	1.31	0.025	0.061	0.37	3	4	16			< 2	< 10	34	< 10	20	16		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	43	5.13	< 10		0.44	36	1.31	0.023	0.062	0.37	< 2	4	16			< 2	< 10	34	< 10	19	23		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	45	5.31	< 10		0.46	36	1.33	0.032	0.062	0.38	< 2	4	16			< 2	< 10	35	< 10	20	24		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	44	5.16	< 10		0.48	36	1.30	0.034	0.059	0.38	2	4	16			< 2	< 10	35	< 10	21	19		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 923 (AQUA REGIA) Meas	40	5.79	< 10		0.40	32	1.37		0.057	0.67	< 2	4	14			< 2	< 10	33	< 10	18	24		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	40	5.83	< 10		0.41	33	1.38		0.058	0.68	< 2	4	14			< 2	< 10	34	< 10	18	28		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	40	5.86	< 10		0.39	32	1.39		0.058	0.65	3	4	14			< 2	< 10	33	< 10	18	21		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	40	6.05	< 10		0.39	32	1.41		0.058	0.69	4	4	14			< 2	< 10	34	< 10	18	29		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	41	5.96	< 10		0.42	33	1.40		0.057	0.69	3	4	14			< 2	< 10	35	< 10	19	24		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 621 (Aqua Regia) Meas	28	3.42	< 10	3	0.39	19	0.43	0.185	0.032	4.62	97	2	18			< 2	< 10	13	< 10	8	52		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	33	3.42	< 10	4	0.39	20	0.43	0.185	0.032	4.57	107	2	18			< 2	< 10	13	< 10	8	61		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	33	3.42	< 10	3	0.36	20	0.43	0.181	0.033	4.59	103	2	18			< 2	< 10	12	< 10	7	67		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	31	3.44	< 10	4	0.37	18	0.43	0.173	0.033	4.69	114	2	18			< 2	< 10	13	< 10	7	64		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	35	3.40	10	4	0.39	20	0.43	0.188	0.033	4.78	121	2	20			5	< 10	13	< 10	8	68		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 229b (Fire Assay) Meas																							
OREAS 229b (Fire Assay) Cert																							
OREAS 229b (Fire Assay) Meas																							
OREAS 229b (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.07	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.34
GS316-3 Cert																						0.0600	0.340

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
GS316-3 Meas																						0.06	0.34	
GS316-3 Cert																						0.0600	0.340	
GS316-3 Meas																						0.06	0.34	
GS316-3 Cert																						0.0600	0.340	
GS316-3 Meas																						0.06	0.34	
GS316-3 Cert																						0.0600	0.340	
GS316-3 Meas																						0.05	0.33	
GS316-3 Cert																						0.0600	0.340	
GS316-3 Meas																						0.06	0.33	
GS316-3 Cert																						0.0600	0.340	
GS316-3 Meas																						0.06	0.34	
GS316-3 Cert																						0.0600	0.340	
GS316-3 Meas																						0.06	0.33	
GS316-3 Cert																						0.0600	0.340	
GS316-3 Meas																						0.06	0.33	
GS316-3 Cert																						0.0600	0.340	
GS316-3 Meas																						0.06	0.33	
GS316-3 Cert																						0.0600	0.340	
GS316-3 Meas																						0.06	0.33	
GS316-3 Cert																						0.0600	0.340	
OREAS 257b (Fire Assay) Meas																								
OREAS 257b (Fire Assay) Cert																								
Oreas E1336 (Fire Assay) Meas																								
Oreas E1336 (Fire Assay) Cert																								
Oreas E1336 (Fire Assay) Meas																								
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Oreas E1336 (Fire Assay) Meas																								
Oreas E1336 (Fire Assay) Cert																								
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Oreas E1336 (Fire Assay) Cert																								
Oreas E1336 (Fire Assay) Meas																								
Oreas E1336 (Fire Assay) Cert																								
1230065160 Orig	265	2.08	< 10	< 1	0.38	17	0.88	0.062	0.039	0.25	< 2	2	36	0.09	< 1	< 2	< 10	21	< 10	2	6	0.60	0.24	
1230065160 Dup	268	2.08	< 10	< 1	0.38	17	0.87	0.063	0.038	0.25	< 2	2	36	0.10	< 1	< 2	< 10	21	< 10	2	6	0.61	0.25	
1230065088 Orig																								
1230065088 Dup																								
1323016002 Orig	201	2.41	< 10	< 1	0.17	16	1.28	0.181	0.041	2.16	3	< 1	57	< 0.01	< 1	< 2	< 10	10	< 10	3	11			
1323016002 Dup	197	2.41	< 10	< 1	0.18	16	1.29	0.185	0.041	2.15	2	< 1	58	< 0.01	< 1	< 2	< 10	11	< 10	3	14			
1323016105 Orig																							0.30	2.19
1323016105 Dup																							0.30	2.19
1230064079 Orig																								
1230064079 Dup																								
1323007027 Orig	296	3.43	< 10	< 1	0.27	14	1.11	0.154	0.039	2.92	4	< 1	52	< 0.01	< 1	< 2	< 10	11	< 10	3	20			
1323007027 Dup	287	3.37	< 10	< 1	0.26	14	1.08	0.152	0.039	2.88	3	< 1	51	< 0.01	2	< 2	< 10	11	< 10	3	23			

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1323007150 Orig																						0.22	2.11
1323007150 Dup																						0.23	2.06
1230064147 Orig																							
1230064147 Dup																							
1230064262 Orig																						0.21	0.26
1230064262 Dup																						0.21	0.25
1230064232 Orig	171	1.90	< 10	< 1	0.30	17	0.21	0.026	0.041	2.01	2	< 1	20	< 0.01	< 1	< 2	< 10	5	< 10	2	9		
1230064232 Dup	177	1.94	< 10	< 1	0.30	18	0.21	0.027	0.043	2.02	< 2	< 1	20	< 0.01	< 1	< 2	< 10	5	< 10	2	10		
1432097378 Orig																							
1432097378 Dup																							
1230064185 Orig																							
1230064185 Dup																							
1230064215 Orig																						0.18	0.40
1230064215 Dup																						0.19	0.39
1230064110 Orig																							
1230064110 Dup																							
1323011103 Orig																						0.09	0.93
1323011103 Dup																						0.09	0.92
1323011012 Orig	203	2.24	< 10	< 1	0.13	17	1.25	0.140	0.048	1.31	3	1	78	< 0.01	1	< 2	< 10	16	< 10	3	3		
1323011012 Dup	209	2.27	< 10	< 1	0.13	17	1.26	0.141	0.049	1.32	< 2	1	77	< 0.01	4	< 2	< 10	16	< 10	3	2		
1230063191 Orig																						0.49	0.54
1230063191 Dup																						0.49	0.55
1230063221 Orig																							
1230063221 Dup																							
1323011098 Orig																							
1323011098 Dup																							
1323011001 Orig	141	4.13	< 10	< 1	0.22	12	2.01	0.150	0.045	2.78	3	3	83	0.07	< 1	< 2	< 10	37	< 10	5	18		
1323011001 Dup	137	4.05	< 10	< 1	0.21	12	2.00	0.149	0.045	2.74	< 2	3	82	0.07	< 1	< 2	< 10	36	< 10	5	19		
1323009372 Orig																							
1323009372 Dup																							
GC20-1024-002 Orig	276	2.35	< 10	< 1	0.19	14	0.62	0.271	0.040	1.31	3	< 1	153	0.04	4	< 2	< 10	10	< 10	3	4		
GC20-1024-002 Dup	277	2.37	< 10	< 1	0.18	14	0.62	0.271	0.040	1.33	3	< 1	154	0.04	3	< 2	< 10	10	< 10	3	5		
1323009146 Orig																						0.24	2.81
1323009146 Dup																						0.25	2.91
F001807 Orig	12	2.04	< 10	< 1	0.25	12	0.44	0.242	0.034	0.03	< 2	2	33	0.34	4	< 2	< 10	46	< 10	17	10		
F001807 Dup	12	2.06	< 10	< 1	0.25	12	0.44	0.244	0.034	0.03	< 2	2	33	0.34	3	< 2	< 10	47	< 10	17	13		
GC20-1007-004 Orig																							
GC20-1007-004 Dup																							
1323008223 Orig																							
1323008223 Dup																							
1323008104 Orig	245	2.03	< 10	< 1	0.30	52	0.81	0.081	0.086	0.43	< 2	2	140	0.02	< 1	< 2	< 10	20	< 10	5	2		
1323008104 Dup	249	2.03	< 10	< 1	0.31	53	0.81	0.084	0.086	0.43	< 2	2	142	0.03	< 1	< 2	< 10	21	< 10	5	2		
1323008297 Orig																							
1323008297 Dup																							
1432089303 Orig																						1.83	0.66
1432089303 Dup																						1.84	0.67
1432089213 Orig	139	7.77	10	< 1	0.18	< 10	2.16	0.184	0.070	0.64	5	16	76	0.15	< 1	< 2	< 10	182	< 10	13	6		
1432089213 Dup	141	7.84	10	< 1	0.18	< 10	2.19	0.189	0.071	0.64	5	16	76	0.15	2	< 2	< 10	183	< 10	13	6		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1230063018 Orig																							
1230063018 Dup																							
1230063065 Orig																							
1230063065 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.006	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.006	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.006	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.005	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
GXR-6 Meas	
GXR-6 Cert	
GXR-6 Meas	
GXR-6 Cert	
GXR-6 Meas	
GXR-6 Cert	
GXR-6 Meas	
GXR-6 Cert	
GXR-6 Meas	
GXR-6 Cert	
BaSO4 Meas	
BaSO4 Cert	
BaSO4 Meas	
BaSO4 Cert	
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GS311-4 Meas	
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GS311-4 Meas	
GS311-4 Cert	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
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GS311-4 Meas	
GS311-4 Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
NBM-1 (slight fzz) Meas	
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NBM-1 (slight fzz) Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
NBM-1 (slight fzz) Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 922 (AQUA REGIA) Meas	
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OREAS 923 (AQUA REGIA) Meas	
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OREAS 923 (AQUA REGIA) Cert	
OREAS 923 (AQUA REGIA) Meas	
OREAS 923 (AQUA REGIA) Cert	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
OREAS 923 (AQUA REGIA) Meas	
OREAS 923 (AQUA REGIA) Cert	
Oreas 621 (Aqua Regia) Meas	
Oreas 621 (Aqua Regia) Cert	
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Oreas 621 (Aqua Regia) Meas	
Oreas 621 (Aqua Regia) Cert	
OREAS 229b (Fire Assay) Meas	12.1
OREAS 229b (Fire Assay) Cert	11.9
OREAS 229b (Fire Assay) Meas	11.6
OREAS 229b (Fire Assay) Cert	11.9
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
GS316-3 Meas	
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GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
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GS316-3 Cert	
OREAS 257b (Fire Assay) Meas	14.3
OREAS 257b (Fire Assay) Cert	14.2
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	
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Oreas E1336 (Fire Assay) Cert	
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	
1230065160 Orig	
1230065160 Dup	
1230065088 Orig	
1230065088 Dup	
1323016002 Orig	
1323016002 Dup	
1323016105 Orig	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
1323016105 Dup	
1230064079 Orig	
1230064079 Dup	
1323007027 Orig	
1323007027 Dup	
1323007150 Orig	
1323007150 Dup	
1230064147 Orig	
1230064147 Dup	
1230064262 Orig	
1230064262 Dup	
1230064232 Orig	
1230064232 Dup	
1432097378 Orig	
1432097378 Dup	
1230064185 Orig	
1230064185 Dup	
1230064215 Orig	
1230064215 Dup	
1230064110 Orig	
1230064110 Dup	
1323011103 Orig	
1323011103 Dup	
1323011012 Orig	
1323011012 Dup	
1230063191 Orig	
1230063191 Dup	
1230063221 Orig	
1230063221 Dup	
1323011098 Orig	
1323011098 Dup	
1323011001 Orig	
1323011001 Dup	
1323009372 Orig	
1323009372 Dup	
GC20-1024-002 Orig	
GC20-1024-002 Dup	
1323009146 Orig	
1323009146 Dup	
F001807 Orig	
F001807 Dup	
GC20-1007-004 Orig	
GC20-1007-004 Dup	
1323008223 Orig	
1323008223 Dup	
1323008104 Orig	
1323008104 Dup	



Report No.: A20-16161
 Report Date: 03-Feb-21
 Date Submitted: 16-Dec-20
 Your Reference: 2020 October_November
 Check Assays

New Gold Inc.
 1800-Two Bentall Centre
 555 Burrard Street, Box 212
 Vancouver BC V7X 1M9
 Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

192 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2021-01-18 15:01:35
1A3-50-Tbay	QOP AA-Au (Au - Fire Assay Gravimetric)	2021-01-20 14:30:02
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2021-01-25 15:02:51

REPORT A20-16161

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

Footnote: Sample F002933 is insufficient

CERTIFIED BY:

<original signed by>

Emmanuel Eseme , Ph.D.
 Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
 1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
 TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
 E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Report No.: A20-16161
Report Date: 03-Feb-21
Date Submitted: 16-Dec-20
Your Reference: 2020 October_November Check Assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

192 Pulp samples were submitted for analysis.

Table with 3 columns: The following analytical package(s) were requested, Testing Date, and details of packages like 11 ABA Modified Sobek Package and 4F-C, S.

REPORT A20-16161

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

Footnote: Sample F002933 is insufficient

CERTIFIED BY:

<original signed by>

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
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E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A20-16161

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1432006213	68.7	67.9	-0.878	78.7	0.862	8.51	224	0.9	0.6	81	1360	< 1	35	2	191	3.84	14	< 10	24	< 0.5	< 2	3.72	22
1432006201	57.1	114	57.0	68.6	1.66	8.60	316	1.8	2.7	95	1420	< 1	31	5	757	3.23	15	< 10	26	< 0.5	< 2	3.79	21
1229075541	11.6	27.2	15.6	14.7	1.85	8.92	28	1.2	< 0.5	13	514	< 1	15	15	56	2.99	16	< 10	39	< 0.5	< 2	1.85	6
GC20-1048-001							98	0.4	< 0.5	40	327	< 1	11	4	75	2.37	13	< 10	14	< 0.5	< 2	0.88	8
GC20-1048-018							377	0.7	< 0.5	144	516	4	11	< 2	63	1.93	10	< 10	28	< 0.5	< 2	1.10	9
F002930							769	4.9	< 0.5	29	235	< 1	8	11	39	1.27	< 2	< 10	43	< 0.5	< 2	0.67	8
1331004400	4.89	62.6	57.7	8.88	7.05	8.47	32	0.2	< 0.5	48	860	< 1	76	< 2	149	3.90	7	14	20	< 0.5	< 2	3.18	29
1331002258	9.38	41.1	31.7	9.19	4.47	9.03	28	< 0.2	< 0.5	27	992	< 1	20	2	179	2.54	< 2	< 10	65	< 0.5	< 2	2.18	15
GC20-0506-002							1600	0.7	< 0.5	293	255	2	8	< 2	27	2.70	10	< 10	31	< 0.5	4	1.19	6
GC20-0507-006							1080	0.5	< 0.5	219	218	< 1	6	< 2	22	2.81	8	< 10	29	< 0.5	2	1.07	6
GC20-0511-002							714	0.3	< 0.5	105	284	< 1	7	< 2	25	3.38	5	< 10	36	< 0.5	3	2.08	6
1331004366	10.5	43.5	33.0	14.1	3.09	8.80	14	0.3	< 0.5	77	805	< 1	67	5	166	3.55	6	14	29	< 0.5	< 2	2.31	25
1331004001	14.1	96.9	82.9	20.2	4.80	8.73	31	0.3	< 0.5	133	781	< 1	52	7	148	3.40	5	< 10	38	< 0.5	< 2	3.83	30
1331004220	16.3	38.7	22.4	15.9	2.43	9.00	21	< 0.2	< 0.5	59	736	< 1	15	5	118	2.13	8	< 10	51	< 0.5	< 2	2.10	9
1331004351	17.8	135	117	24.8	5.45	8.60	8	< 0.2	< 0.5	66	1110	< 1	123	< 2	154	3.88	9	< 10	25	< 0.5	< 2	4.12	39
GC20-0518-005							107	1.2	< 0.5	102	543	2	13	10	193	2.76	48	< 10	25	< 0.5	3	0.61	12
1331004350	20.6	123	102	27.3	4.51	8.62	12	0.3	< 0.5	65	1060	< 1	93	3	109	3.59	9	< 10	59	< 0.5	< 2	3.93	36
1229075160	38.7	41.3	2.59	42.6	0.971	8.75	136	17.0	0.9	25	1070	< 1	10	100	245	0.87	80	< 10	34	< 0.5	< 2	1.73	7
1229075259	37.7	22.7	-15.0	42.0	0.541	8.91	39	0.7	< 0.5	17	326	< 1	15	18	85	1.20	31	< 10	33	< 0.5	< 2	1.08	9
GC20-0512-009FD							242	0.6	< 0.5	226	288	1	15	3	33	2.99	10	< 10	40	< 0.5	< 2	0.69	6
GC20-0508-013							286	0.4	< 0.5	106	244	< 1	5	< 2	22	2.61	10	< 10	27	< 0.5	< 2	0.85	5
GC20-0509-009FD							759	0.5	< 0.5	180	256	< 1	7	2	28	2.36	15	< 10	19	< 0.5	5	1.02	6
1331004005	5.51	83.8	78.3	10.1	8.30	8.96	10	0.2	< 0.5	69	711	< 1	41	4	87	3.57	7	< 10	60	< 0.5	< 2	3.71	27
1229075188	2.50	9.34	6.84	2.45	3.81	9.09	6	< 0.2	< 0.5	106	378	< 1	42	< 2	40	5.35	< 2	< 10	12	< 0.5	< 2	3.50	20
F002929							1050	3.3	< 0.5	42	268	< 1	8	15	44	1.37	< 2	< 10	43	< 0.5	< 2	0.78	9
GC20-1050-010							628	0.7	< 0.5	131	588	3	9	3	106	2.25	6	< 10	31	< 0.5	< 2	1.33	10
1432006091	148	61.6	-86.6	165	0.374	8.32	263	2.3	< 0.5	38	1400	< 1	49	3	156	3.02	31	< 10	16	< 0.5	< 2	3.33	28
GC20-1053-010							590	0.8	< 0.5	179	326	3	11	3	50	1.48	19	< 10	20	< 0.5	< 2	0.72	9
GC20-1054-007							167	0.5	< 0.5	82	480	3	11	< 2	61	1.19	19	< 10	28	< 0.5	< 2	1.60	9
1432006148	43.1	49.8	6.73	58.5	0.852	8.46	141	1.1	0.9	89	1620	< 1	49	6	286	4.89	16	< 10	38	< 0.5	< 2	4.17	30
GC20-1051-001							423	1.0	< 0.5	140	450	3	13	< 2	62	1.59	11	< 10	32	< 0.5	2	1.29	9
GC20-1051-018							470	1.1	< 0.5	312	499	3	22	< 2	71	1.46	9	< 10	18	< 0.5	< 2	0.98	11
GC20-1052-014							992	1.2	< 0.5	179	354	3	12	3	38	1.35	37	< 10	19	< 0.5	2	0.75	9
GC20-0436-010							450	0.8	< 0.5	213	471	3	12	3	86	2.44	8	< 10	25	< 0.5	< 2	1.11	9
GC20-0435-014							818	0.7	< 0.5	117	417	3	10	2	65	1.80	13	< 10	27	< 0.5	< 2	1.54	8
1432006121	69.2	103	33.6	84.8	1.21	8.26	470	2.8	2.0	150	2010	< 1	61	51	556	3.60	50	< 10	30	< 0.5	< 2	3.43	36
GC20-1055-018							423	1.5	< 0.5	313	535	3	13	3	89	1.19	11	< 10	19	< 0.5	< 2	1.91	10
1432006183	31.2	60.3	29.1	48.7	1.24	8.16	34	0.6	< 0.5	51	1640	< 1	5	3	196	3.60	10	< 10	14	< 0.5	< 2	3.59	29
GC20-1055-012							207	1.4	< 0.5	350	544	3	13	2	59	1.78	17	< 10	21	< 0.5	< 2	1.32	10
GC20-0439-018							296	0.8	< 0.5	164	463	3	12	3	107	2.38	13	< 10	29	< 0.5	< 2	1.26	8
GC20-0439-001							78	0.4	< 0.5	21	287	< 1	14	4	56	2.16	7	< 10	18	< 0.5	< 2	0.69	9
1321001228	70.5	13.0	-57.5	75.6	0.172	8.27	162	1.1	< 0.5	429	442	< 1	11	10	80	2.32	11	< 10	24	< 0.5	10	1.26	8
1321001024	69.6	15.1	-54.4	73.8	0.205	8.11	193	0.4	< 0.5	78	347	1	18	5	83	2.69	12	< 10	26	< 0.5	2	1.37	11
GC20-0437-001							208	0.9	< 0.5	112	390	2	12	4	75	3.09	14	< 10	24	< 0.5	< 2	1.55	7
1432006185	30.1	65.5	35.4	42.3	1.55	8.14	51	0.4	< 0.5	44	1910	< 1	7	< 2	178	3.16	10	< 10	11	< 0.5	< 2	3.41	26
F002928							1030	3.2	< 0.5	33	263	< 1	7	16	44	1.32	< 2	< 10	43	< 0.5	< 2	0.75	9
GC20-0438-010							161	0.7	< 0.5	100	562	3	12	3	57	1.40	8	< 10	26	< 0.5	< 2	1.18	9

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GC20-0448-001	210	2.79	< 10	< 1	0.34	15	0.75	0.121	0.040	1.95	2	1	44	0.06	< 1	< 2	< 10	21	< 10	3	18		
GC20-0445-018	148	2.53	< 10	< 1	0.17	17	0.81	0.085	0.044	2.20	2	1	29	0.02	< 1	< 2	< 10	12	< 10	3	14		
1321001225	193	3.01	< 10	< 1	0.12	17	1.08	0.130	0.042	2.41	3	1	60	0.01	< 1	< 2	< 10	13	< 10	3	12	0.17	2.33
1432006152	116	6.23	< 10	< 1	0.34	14	2.15	0.218	0.060	1.04	4	10	106	0.12	< 1	< 2	< 10	144	< 10	8	13	1.88	1.14
1321001026	217	5.23	< 10	< 1	0.18	29	1.33	0.173	0.060	3.74	3	2	147	0.02	< 1	< 2	< 10	23	< 10	5	20	0.22	3.95
GC20-0446-014	168	2.50	< 10	< 1	0.20	15	0.73	0.185	0.041	2.21	< 2	< 1	49	0.02	< 1	< 2	< 10	10	< 10	3	14		
GC20-0448-018	135	2.56	< 10	< 1	0.23	13	0.80	0.229	0.040	2.06	2	< 1	80	0.02	1	< 2	< 10	12	< 10	3	11		
GC20-0443-013	398	2.61	< 10	< 1	0.31	13	0.68	0.115	0.038	1.76	3	1	28	0.02	< 1	< 2	< 10	18	< 10	3	14		
GC20-0440-003	143	3.26	< 10	< 1	0.16	14	0.79	0.221	0.042	2.14	< 2	< 1	127	< 0.01	1	< 2	< 10	11	< 10	3	12		
1432006087	261	8.54	10	< 1	0.75	< 10	2.07	0.184	0.058	4.61	6	13	69	0.17	4	< 2	< 10	170	< 10	10	11	1.46	5.39
1321001171	264	2.56	< 10	< 1	0.12	17	0.86	0.147	0.043	2.40	5	< 1	56	0.01	5	< 2	< 10	9	42	3	18	0.15	2.36
1321001066	155	2.94	< 10	< 1	0.17	19	0.92	0.211	0.049	2.87	3	< 1	61	0.01	< 1	< 2	< 10	10	< 10	3	14	0.22	2.93
GC20-0445-001	232	2.52	< 10	< 1	0.18	14	0.64	0.200	0.038	1.78	< 2	< 1	107	0.02	< 1	< 2	< 10	14	< 10	3	12		
1432006098	219	9.32	10	< 1	0.52	< 10	3.14	0.215	0.061	4.53	5	18	88	0.17	< 1	< 2	< 10	226	< 10	14	6	1.64	5.29
1432006042	109	5.17	< 10	< 1	0.52	34	2.11	0.257	0.074	2.32	3	7	90	0.08	< 1	< 2	< 10	87	< 10	9	12	1.49	2.38
GC20-0449-021	125	2.79	< 10	< 1	0.20	21	1.40	0.277	0.047	2.37	2	1	70	0.04	< 1	< 2	< 10	13	< 10	4	19		
1321001016	220	3.39	< 10	< 1	0.22	17	1.01	0.106	0.044	2.69	3	1	45	0.02	3	< 2	< 10	16	< 10	3	18	0.26	2.60
F002927	12	2.07	< 10	< 1	0.25	13	0.44	0.237	0.036	0.03	< 2	2	31	0.33	6	< 2	< 10	50	< 10	16	18		
1321005234	99	3.73	< 10	< 1	0.22	19	2.00	0.065	0.051	2.34	3	1	27	< 0.01	< 1	< 2	< 10	16	< 10	5	5	0.14	2.35
1229074604	200	1.58	< 10	< 1	0.37	19	0.45	0.020	0.053	1.14	3	1	63	0.03	< 1	< 2	< 10	11	< 10	2	2	0.60	1.13
1229074688	146	2.10	< 10	< 1	0.38	16	0.10	0.017	0.039	2.18	4	< 1	60	0.01	< 1	< 2	< 10	5	< 10	2	10	0.46	1.97
1321005250	235	3.22	< 10	< 1	0.48	63	2.04	0.050	0.142	0.73	3	5	151	0.04	< 1	< 2	< 10	40	< 10	6	2	0.80	0.63
GC20-0561-001	149	2.98	< 10	< 1	0.16	30	1.00	0.177	0.041	1.43	5	1	115	< 0.01	< 1	3	< 10	13	< 10	4	9		
GC20-0560-001	180	2.61	< 10	< 1	0.20	13	0.60	0.238	0.039	1.12	3	< 1	129	0.02	< 1	< 2	< 10	8	< 10	2	5		
1321005303	157	3.57	< 10	< 1	0.14	14	1.35	0.151	0.038	1.74	2	1	97	< 0.01	5	< 2	< 10	15	< 10	3	11	0.22	1.66
1321005225	110	1.88	< 10	< 1	0.31	39	0.96	0.050	0.058	0.84	< 2	< 1	109	0.01	< 1	< 2	< 10	8	< 10	4	4	0.44	0.76
1432098092	40	9.73	20	< 1	0.26	< 10	2.09	0.161	0.111	2.84	5	13	72	0.11	3	< 2	< 10	126	< 10	14	7	1.36	2.28
1331013431	222	2.45	< 10	< 1	0.45	23	1.32	0.089	0.058	0.60	2	3	60	0.10	< 1	< 2	< 10	41	< 10	4	10	0.41	0.60
1432098094	109	8.81	10	< 1	0.22	11	2.33	0.031	0.111	3.13	4	13	69	0.09	7	< 2	< 10	122	< 10	12	9	1.65	3.39
1321005255	81	2.83	< 10	< 1	0.31	14	1.46	0.131	0.037	2.18	< 2	1	59	0.03	< 1	< 2	< 10	12	< 10	3	4	0.21	2.14
GC20-0559-010	122	2.52	< 10	< 1	0.21	13	0.60	0.161	0.033	1.07	2	< 1	124	0.02	2	< 2	< 10	8	< 10	2	4		
GC20-0557-005	112	3.51	< 10	< 1	0.24	10	0.89	0.109	0.032	1.67	< 2	< 1	74	0.03	< 1	< 2	< 10	9	< 10	2	19		
GC20-0537-005	76	3.07	< 10	< 1	0.17	11	0.94	0.094	0.034	0.76	2	1	60	0.03	< 1	< 2	< 10	14	< 10	3	5		
GC20-0537-005	74	3.08	< 10	< 1	0.17	11	0.94	0.092	0.033	0.75	2	1	59	0.03	3	< 2	< 10	14	< 10	2	3		
1432098116	51	9.69	10	< 1	0.19	< 10	2.57	0.071	0.044	3.45	6	17	51	0.14	2	< 2	< 10	448	< 10	8	5	1.73	3.74
GC20-0468-011	192	3.24	< 10	< 1	0.20	14	0.84	0.404	0.037	2.15	3	< 1	186	< 0.01	4	< 2	< 10	12	11	3	13		
1432098155	73	9.39	10	< 1	0.06	< 10	2.67	0.031	0.039	1.28	5	16	38	0.07	3	< 2	< 10	468	< 10	7	3	1.44	1.56
1229074075	144	2.31	< 10	< 1	0.32	15	1.24	0.138	0.038	1.28	< 2	2	48	0.05	< 1	< 2	< 10	22	< 10	3	10	0.35	1.25
1331013323	192	2.48	< 10	< 1	0.41	48	1.09	0.091	0.068	0.24	< 2	2	82	0.07	< 1	< 2	< 10	23	< 10	6	3	0.58	0.24
1321005304	135	2.89	< 10	< 1	0.15	14	0.98	0.185	0.035	1.24	3	1	125	< 0.01	3	< 2	< 10	12	< 10	3	6	0.15	1.21
1229074658	158	1.81	< 10	< 1	0.24	18	1.11	0.094	0.048	1.14	2	2	36	0.02	< 1	< 2	< 10	17	< 10	3	4	0.28	1.11
F002926	14	2.03	< 10	< 1	0.27	14	0.51	0.217	0.049	0.05	6	3	30	0.25	3	< 2	< 10	61	< 10	17	9		

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
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GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
NBM-1 (slight fzz) Meas		43.0				8.45																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.0				8.32																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.0				8.11																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.1				8.36																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
OREAS 922 (AQUA REGIA) Meas								1.2	< 0.5	2270	770	< 1	38	58	259	2.79	6		84	0.7	10	0.45	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2270	749	< 1	35	61	264	2.69	5		71	0.7	6	0.40	18
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2310	767	< 1	32	60	253	2.97	6		78	0.7	6	0.39	20
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.7	< 0.5	2220	785	< 1	32	58	251	3.05	7		80	0.6	10	0.41	19

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas										2270				58	259								
OREAS 922 (AQUA REGIA) Cert										2176				60	256								
OREAS 923 (AQUA REGIA) Meas								1.6	< 0.5	4380	864	< 1	34	77	337	2.78	7		67	0.6	22	0.45	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.8	< 0.5	4560	875	< 1	36	80	344	2.82	8		53	0.6	21	0.41	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								2.1	< 0.5	4560	880	< 1	30	81	330	2.99	5		37	0.6	15	0.39	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.9	< 0.5	4440	883	< 1	31	82	330	3.02	7		64	0.6	15	0.41	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas										4380				77	337								
OREAS 923 (AQUA REGIA) Cert										4248				81	335								
Oreas 96 (Aqua Regia) Meas								11.8		> 10000				89	430							52	47
Oreas 96 (Aqua Regia) Cert								11.50		39100. 00				100	448							27.9	49.2
Oreas 96 (Aqua Regia) Meas								11.3		> 10000				85	395							50	44
Oreas 96 (Aqua Regia) Cert								11.50		39100. 00				100	448							27.9	49.2
Oreas 621 (Aqua Regia) Meas								68.5	300	3840	534	14	27	> 5000	> 10000	1.69	75			0.6	5	1.77	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								66.5	294	3580	528	13	24	> 5000	> 10000	1.67	76			0.6	3	1.70	28
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								69.2	293	3620	542	13	25	> 5000	> 10000	1.87	78			0.5	2	1.60	30
Oreas 621 (Aqua								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Regia) Cert																							
Oreas 621 (Aqua Regia) Meas								65.5	276	3720	557	12	27	> 5000	> 10000	1.89	72			0.5	< 2	1.69	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas										3840				> 5000	> 10000								
Oreas 621 (Aqua Regia) Cert										3660				13600	51700								
OREAS 45f (Aqua Regia) Meas										346	158	< 1	221	7	29	7.13			152	1.0	< 2	0.07	40
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										329	176	< 1	222	9	26	7.69			146	1.0	< 2	0.08	40
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										346				7	29								
OREAS 45f (Aqua Regia) Cert										336				12.4	22.2								
OREAS 238 (Fire Assay) Meas								3120															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3090															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3050															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3180															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3170															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3160															
OREAS 238 (Fire Assay) Cert								3030															
GS316-3 Meas																							
GS316-3 Cert																							
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GS316-3 Meas																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
Oreas 237 (fire Assay) Meas							2190																
Oreas 237 (fire Assay) Cert							2210																
Oreas E1336 (Fire Assay) Meas							513																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							520																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							508																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							517																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							511																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							530																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							522																
Oreas E1336 (Fire Assay) Cert							510																
GS317-5 Meas																							
GS317-5 Cert																							
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Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS317-5 Meas																							
GS317-5 Cert																							
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GS317-5 Meas																							
GS317-5 Cert																							
GS317-5 Meas																							
GS317-5 Cert																							
GC20-0457-008 Orig								0.6	< 0.5	175	476	4	14	< 2	130	1.56	10	< 10	21	< 0.5	< 2	0.81	9
GC20-0457-008 Dup								0.8	< 0.5	169	473	4	14	< 2	136	1.55	11	< 10	21	< 0.5	< 2	0.81	9
GC20-0460-018 Orig							34																
GC20-0460-018 Dup							37																
1432005093 Orig																							
1432005093 Dup																							
1322012032 Orig								< 0.2	< 0.5	112	480	< 1	45	< 2	43	5.17	< 2	< 10	< 10	< 0.5	< 2	3.29	24
1322012032 Dup								< 0.2	< 0.5	113	484	< 1	48	< 2	45	5.19	< 2	< 10	< 10	< 0.5	< 2	3.29	24
1331002074 Orig							25																
1331002074 Dup							22																
1331002417 Orig																							
1331002417 Dup																							
1331002349 Orig							15																
1331002349 Dup							14																
1331002170 Orig								0.2	0.8	19	823	< 1	20	5	234	2.48	9	< 10	59	< 0.5	< 2	2.42	10
1331002170 Dup								< 0.2	0.7	20	799	< 1	22	6	240	2.44	11	< 10	58	< 0.5	< 2	2.36	10
1331003217 Orig																							
1331003217 Dup																							
1229074617 Orig								2.2	< 0.5	19	1070	1	17	21	56	1.68	42	< 10	35	< 0.5	< 2	2.35	9
1229074617 Dup								2.1	< 0.5	19	1090	1	19	23	53	1.73	44	< 10	36	< 0.5	< 2	2.40	10
GC20-0562-005 Orig							1000																
GC20-0562-005 Dup							921																
1331013274 Orig	12.5	30.5	18.0	12.3	2.49																		
1331013274 Dup	12.5	30.6	18.1	12.3	2.50																		
1432098036 Orig							1000	3.5	< 0.5	65	1520	3	65	4	186	2.90	80	< 10	< 10	< 0.5	< 2	2.60	41
1432098036 Dup							1010	3.5	< 0.5	63	1540	4	69	5	187	2.91	75	< 10	< 10	< 0.5	< 2	2.58	42
1331013579 Orig																							
1331013579 Dup																							
1331013256 Orig							19																
1331013256 Dup							22																
1331003459 Orig								0.2	< 0.5	86	930	< 1	61	2	142	2.83	13	< 10	88	< 0.5	< 2	3.57	36
1331003459 Dup								0.2	< 0.5	86	941	< 1	57	< 2	140	2.84	12	< 10	91	< 0.5	< 2	3.59	37

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1322012054 Orig							48																
1322012054 Dup							44																
1331002067 Orig								< 0.2	< 0.5	15	1050	< 1	30	< 2	89	1.83	5	< 10	78	< 0.5	< 2	2.48	12
1331002067 Dup								< 0.2	< 0.5	15	1050	< 1	30	< 2	88	1.83	4	< 10	89	< 0.5	< 2	2.46	11
1229075579 Orig							29																
1229075579 Dup							30																
1331002240 Orig						8.54																	
1331002240 Dup						8.54																	
1229075220 Orig																							
1229075220 Dup																							
1432006213 Orig	68.7	68.0	-0.756	78.7	0.864																		
1432006213 Dup	68.7	67.7	-1.00	78.7	0.861																		
1432006201 Orig								1.8	2.7	94	1400	< 1	31	6	741	3.20	14	< 10	27	< 0.5	< 2	3.76	21
1432006201 Dup								1.8	2.8	95	1430	< 1	31	5	773	3.25	16	< 10	26	< 0.5	< 2	3.82	22
1229075541 Orig							28																
1229075541 Dup							28																
1331004400 Orig							31																
1331004400 Dup							32																
1331004220 Orig																							
1331004220 Dup																							
GC20-0518-005 Orig								1.2	0.5	100	539	2	13	9	192	2.73	49	< 10	24	< 0.5	3	0.61	12
GC20-0518-005 Dup								1.2	< 0.5	104	548	2	13	10	194	2.79	48	< 10	27	< 0.5	3	0.62	12
1229075160 Orig							136																
1229075160 Dup							135																
GC20-1053-010 Orig							611																
GC20-1053-010 Dup							568																
GC20-1054-007 Orig								0.6	< 0.5	82	479	3	11	< 2	60	1.20	19	< 10	26	< 0.5	< 2	1.59	8
GC20-1054-007 Dup								0.4	< 0.5	82	480	3	10	< 2	62	1.17	19	< 10	29	< 0.5	< 2	1.61	9
1432006183 Orig							33																
1432006183 Dup							35																
1321001228 Orig																							
1321001228 Dup																							
1321001024 Orig								0.4	< 0.5	78	349	1	18	6	84	2.70	10	< 10	26	< 0.5	2	1.37	11
1321001024 Dup								0.4	< 0.5	78	345	1	18	5	82	2.68	14	< 10	26	< 0.5	2	1.37	11
1432006076 Orig							53																
1432006076 Dup							55																
GC20-0445-001 Orig								0.7	< 0.5	121	569	3	14	2	80	1.79	10	< 10	17	< 0.5	< 2	1.39	9
GC20-0445-001 Dup								0.7	< 0.5	123	561	3	14	3	79	1.83	9	< 10	16	< 0.5	< 2	1.39	10
1432006098 Orig																							
1432006098 Dup																							
1229074604 Orig							94																
1229074604 Dup							94																
1432098092 Orig								1.3	0.7	73	1960	< 1	6	5	220	3.73	34	< 10	27	< 0.5	< 2	3.66	30

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1432098092 Dup								1.2	0.6	73	1980	< 1	8	5	219	3.77	29	< 10	25	< 0.5	< 2	3.71	30
1331013431 Orig	15.6	32.5	16.8	18.4	1.77																		
1331013431 Dup	15.6	32.4	16.8	18.4	1.77																		
1432098094 Orig																							
1432098094 Dup																							
1432098116 Orig							704																
1432098116 Dup							705																
1321005304 Orig								0.4	< 0.5	156	282	< 1	11	2	29	3.24	6	< 10	27	< 0.5	< 2	1.07	7
1321005304 Dup								0.4	< 0.5	146	282	1	12	< 2	30	3.17	8	< 10	26	< 0.5	< 2	1.05	7
1229074658 Orig	31.1	18.8	-12.3	34.0	0.553																		
1229074658 Dup	31.1	18.8	-12.3	34.0	0.554																		
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
GS311-4 Cert																						1.11	0.54	
GS311-4 Meas																							1.06	0.54
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.07	0.55
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.08	0.55
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.07	0.56
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.07	0.56
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.04	0.55
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.09	0.55
GS311-4 Cert																							1.11	0.54
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
OREAS 922 (AQUA REGIA) Meas	47	5.28	< 10		0.53	37	1.26	0.032	0.068	0.36	3	4	17			< 2	< 10	39	< 10	23	18			
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3			
OREAS 922 (AQUA REGIA) Meas	44	5.25	< 10		0.47	35	1.25	0.028	0.065	0.35	2	3	16			< 2	< 10	37	< 10	18	13			
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3			
OREAS 922 (AQUA REGIA) Meas	45	5.03	< 10		0.48	38	1.29	0.025	0.062	0.36	< 2	4	16			< 2	< 10	36	< 10	20	17			
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3			
OREAS 922 (AQUA REGIA) Meas	41	5.17	< 10		0.50	36	1.38	0.027	0.066	0.37	3	3	14			< 2	< 10	34	< 10	19	10			
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3			
OREAS 922 (AQUA REGIA) Meas																								

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
OREAS 922 (AQUA REGIA) Cert																							
OREAS 923 (AQUA REGIA) Meas	43	6.15	< 10		0.45	34	1.35		0.065	0.64	< 2	4	15			< 2	< 10	38	< 10	20	28		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	42	6.14	< 10		0.42	33	1.36		0.062	0.64	3	4	15			< 2	< 10	37	< 10	17	17		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	41	5.75	< 10		0.41	35	1.40		0.059	0.66	3	4	14			< 2	< 10	36	< 10	18	28		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	38	5.80	< 10		0.42	33	1.49		0.062	0.68	3	3	13			< 2	< 10	33	< 10	17	10		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas																							
OREAS 923 (AQUA REGIA) Cert																							
Oreas 96 (Aqua Regia) Meas										3.92	8												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										3.80	6												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 621 (Aqua Regia) Meas	31	3.31	10	6	0.39	19	0.41	0.176	0.036	4.59	112	2	19			< 2	< 10	14	< 10	8	69		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	28	3.37	10	5	0.38	19	0.41	0.177	0.033	4.64	92	2	19			< 2	< 10	13	< 10	8	43		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	32	3.42	< 10	4	0.39	21	0.44	0.182	0.033	4.57	103	2	18			< 2	< 10	14	< 10	8	53		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	32	3.57	< 10	4	0.38	19	0.47	0.187	0.037	4.86	108	2	16			< 2	< 10	13	< 10	7	64		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas																							
Oreas 621 (Aqua Regia) Meas																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
Regia) Cert																								
OREAS 45f (Aqua Regia) Meas	345	12.9	20	< 1	0.10	12	0.17	0.040	0.020	0.02		31	15	0.07		< 2	< 10	200			6	10		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217			6.74	30.0		
OREAS 45f (Aqua Regia) Meas	329	13.5	20	< 1	0.11	12	0.19	0.042	0.023	0.02		29	14	0.13		< 2	< 10	203			6	22		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217			6.74	30.0		
OREAS 45f (Aqua Regia) Meas																								
OREAS 45f (Aqua Regia) Cert																								
OREAS 238 (Fire Assay) Meas																								
OREAS 238 (Fire Assay) Cert																								
OREAS 238 (Fire Assay) Meas																								
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OREAS 238 (Fire Assay) Meas																								
OREAS 238 (Fire Assay) Cert																								
OREAS 238 (Fire Assay) Meas																								
OREAS 238 (Fire Assay) Cert																								
GS316-3 Meas																							0.06	0.36
GS316-3 Cert																							0.0600	0.340
GS316-3 Meas																							0.06	0.36
GS316-3 Cert																							0.0600	0.340
GS316-3 Meas																							0.06	0.34
GS316-3 Cert																							0.0600	0.340
GS316-3 Meas																							0.06	0.33
GS316-3 Cert																							0.0600	0.340
GS316-3 Meas																							0.07	0.34
GS316-3 Cert																							0.0600	0.340
GS316-3 Meas																							0.06	0.35
GS316-3 Cert																							0.0600	0.340
GS316-3 Meas																							0.07	0.33
GS316-3 Cert																							0.0600	0.340
GS316-3 Meas																							0.07	0.35
GS316-3 Cert																							0.0600	0.340
Oreas 237 (fire Assay) Meas																								
Oreas 237 (fire Assay) Cert																								

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
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Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
GS317-5 Meas																						8.08	15.0
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.56	14.9
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.04	15.3
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.13	15.4
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.06	15.3
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.21	15.4
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.10	15.1
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.28	15.1
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.41	15.2
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.10	15.0
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.41	15.4
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.22	15.1
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.12	15.3
GS317-5 Cert																						8.46	15.5

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
GC20-0457-008 Orig	191	2.68	< 10	< 1	0.34	13	0.74	0.170	0.039	2.24	2	1	60	0.06	< 1	< 2	< 10	19	< 10	3	20			
GC20-0457-008 Dup	197	2.70	< 10	< 1	0.34	14	0.75	0.164	0.040	2.33	5	1	60	0.06	< 1	< 2	< 10	19	< 10	3	21			
GC20-0460-018 Orig																								
GC20-0460-018 Dup																								
1432005093 Orig																							0.30	0.55
1432005093 Dup																							0.32	0.62
1322012032 Orig	104	4.13	< 10	< 1	0.03	< 10	1.87	0.580	0.019	0.09	< 2	7	68	0.21	< 1	< 2	< 10	136	< 10	5	3			
1322012032 Dup	105	4.16	< 10	< 1	0.03	< 10	1.88	0.579	0.019	0.07	3	7	68	0.21	2	< 2	< 10	134	< 10	5	3			
1331002074 Orig																								
1331002074 Dup																								
1331002417 Orig																							0.67	0.55
1331002417 Dup																							0.65	0.57
1331002349 Orig																								
1331002349 Dup																								
1331002170 Orig	195	2.55	< 10	< 1	0.31	17	1.33	0.154	0.046	0.55	< 2	2	64	0.04	< 1	< 2	< 10	32	< 10	4	6			
1331002170 Dup	190	2.48	< 10	< 1	0.30	17	1.29	0.151	0.045	0.54	2	2	64	0.04	< 1	< 2	< 10	31	< 10	4	5			
1331003217 Orig																							1.41	0.23
1331003217 Dup																							1.39	0.23
1229074617 Orig	161	1.73	< 10	< 1	0.30	17	0.92	0.106	0.044	1.25	2	1	42	0.03	3	< 2	< 10	14	< 10	5	7			
1229074617 Dup	163	1.75	< 10	< 1	0.30	17	0.93	0.110	0.045	1.27	2	1	43	0.03	1	< 2	< 10	14	< 10	5	8			
GC20-0562-005 Orig																								
GC20-0562-005 Dup																								
1331013274 Orig																								
1331013274 Dup																								
1432098036 Orig	107	10.3	< 10	< 1	0.26	< 10	2.37	0.081	0.064	7.46	6	9	42	0.13	< 1	< 2	< 10	134	< 10	11	8			
1432098036 Dup	110	10.3	< 10	< 1	0.26	< 10	2.35	0.082	0.063	7.60	5	9	41	0.14	< 1	< 2	< 10	136	< 10	11	8			
1331013579 Orig																							0.23	0.46
1331013579 Dup																							0.23	0.47
1331013256 Orig																								
1331013256 Dup																								
1331003459 Orig	196	6.16	10	< 1	0.41	< 10	0.95	0.180	0.057	0.34	3	16	37	0.20	2	< 2	< 10	179	< 10	14	4	0.92	0.37	
1331003459 Dup	201	6.17	10	< 1	0.41	< 10	0.97	0.178	0.058	0.34	3	16	38	0.22	< 1	< 2	< 10	180	< 10	14	4	0.92	0.38	
1322012054 Orig																								
1322012054 Dup																								
1331002067 Orig	231	2.86	< 10	< 1	0.38	17	1.21	0.084	0.054	0.65	3	2	46	0.08	< 1	< 2	< 10	32	< 10	4	9	0.73	0.62	
1331002067 Dup	224	2.84	< 10	< 1	0.38	16	1.20	0.087	0.053	0.62	2	2	45	0.08	2	< 2	< 10	32	< 10	4	16	0.74	0.59	
1229075579 Orig																								
1229075579 Dup																								
1331002240 Orig																								
1331002240 Dup																								
1229075220 Orig																							0.43	0.53
1229075220 Dup																							0.44	0.52
1432006213 Orig																								
1432006213 Dup																								
1432006201 Orig	240	6.36	< 10	< 1	0.40	17	2.26	0.127	0.080	2.06	4	7	67	0.13	< 1	< 2	< 10	92	< 10	9	19			
1432006201 Dup	250	6.53	< 10	< 1	0.40	17	2.28	0.127	0.082	2.12	5	7	67	0.12	< 1	< 2	< 10	93	< 10	9	19			
1229075541 Orig																								

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1229075541 Dup																							
1331004400 Orig																							
1331004400 Dup																							
1331004220 Orig																						0.49	0.52
1331004220 Dup																						0.50	0.52
GC20-0518-005 Orig	112	3.62	< 10	< 1	0.20	18	1.93	0.084	0.048	2.17	4	1	50	< 0.01	5	< 2	< 10	15	< 10	4	21		
GC20-0518-005 Dup	112	3.64	< 10	< 1	0.21	18	1.98	0.085	0.048	2.20	3	1	51	< 0.01	< 1	< 2	< 10	16	< 10	4	22		
1229075160 Orig																							
1229075160 Dup																							
GC20-1053-010 Orig																							
GC20-1053-010 Dup																							
GC20-1054-007 Orig	137	2.70	< 10	< 1	0.19	12	0.59	0.066	0.037	1.97	< 2	< 1	37	< 0.01	< 1	< 2	< 10	9	< 10	3	16		
GC20-1054-007 Dup	141	2.70	< 10	< 1	0.18	13	0.59	0.063	0.039	2.00	2	< 1	36	< 0.01	< 1	< 2	< 10	8	< 10	3	17		
1432006183 Orig																							
1432006183 Dup																							
1321001228 Orig																						0.23	2.45
1321001228 Dup																						0.24	2.48
1321001024 Orig	155	3.50	< 10	< 1	0.15	22	1.07	0.223	0.049	2.47	3	1	166	< 0.01	2	< 2	< 10	15	< 10	4	18		
1321001024 Dup	149	3.48	< 10	< 1	0.15	22	1.06	0.224	0.048	2.47	4	1	167	< 0.01	1	< 2	< 10	15	< 10	4	18		
1432006076 Orig																							
1432006076 Dup																							
GC20-0445-001 Orig	233	2.53	< 10	< 1	0.18	14	0.65	0.195	0.039	1.80	< 2	< 1	105	0.02	< 1	< 2	< 10	14	< 10	3	11		
GC20-0445-001 Dup	231	2.51	< 10	< 1	0.18	13	0.64	0.206	0.038	1.77	2	< 1	109	0.02	< 1	< 2	< 10	14	< 10	3	13		
1432006098 Orig																						1.64	5.26
1432006098 Dup																						1.64	5.32
1229074604 Orig																							
1229074604 Dup																							
1432098092 Orig	37	9.71	10	< 1	0.26	< 10	2.06	0.161	0.112	2.80	5	13	72	0.11	4	< 2	< 10	125	< 10	13	8		
1432098092 Dup	43	9.74	20	< 1	0.27	< 10	2.12	0.162	0.111	2.88	5	14	73	0.10	2	< 2	< 10	127	< 10	14	7		
1331013431 Orig																							
1331013431 Dup																							
1432098094 Orig																						1.65	3.37
1432098094 Dup																						1.64	3.42
1432098116 Orig																							
1432098116 Dup																							
1321005304 Orig	135	2.91	< 10	< 1	0.15	14	0.99	0.187	0.035	1.25	2	1	127	< 0.01	5	< 2	< 10	13	< 10	3	4		
1321005304 Dup	136	2.87	< 10	< 1	0.15	14	0.98	0.183	0.035	1.23	3	1	123	< 0.01	1	< 2	< 10	12	< 10	3	7		
1229074658 Orig																							
1229074658 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Method Blank																								
Method Blank																								
Method Blank																								
Method Blank																								
Method Blank																								
Method Blank																								
Method Blank																								



Report No.: A20-16162
 Report Date: 09-Feb-21
 Date Submitted: 16-Dec-20
 Your Reference: 2020 October_November
 Check Assays

New Gold Inc.
 1800-Two Bentall Centre
 555 Burrard Street, Box 212
 Vancouver BC V7X 1M9
 Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

141 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2021-01-15 18:17:42
1A3-50-Tbay	QOP AA-Au (Au - Fire Assay Gravimetric)	2021-01-19 13:27:02
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2021-01-25 15:02:51

REPORT A20-16162

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
 Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

<original signed by>

Emmanuel Eseme , Ph.D.
 Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
 1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
 TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
 E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Report No.: A20-16162
Report Date: 09-Feb-21
Date Submitted: 16-Dec-20
Your Reference: 2020 October_November Check Assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

141 Pulp samples were submitted for analysis.

Table with 3 columns: The following analytical package(s) were requested, Testing Date, and test details. Rows include 11 ABA Modified Sobek Package, 4F-C, S, Acid Base Accounting, and Infrared.

REPORT A20-16162

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

<original signed by>

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
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E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
1321004043	
1321004081	
1325001054	
1325001163	
1321007185	
1325001187	
1325001742	
1328070130	
GC20-0650-005	
GC20-0647-001	
1325001776	
1321007068	
1325001759	
1325001035	
1321007221	
1328070076	
1325001701	42.9
GC20-06749-001	
1321007018	
1328070047	
1328070158	
F002949	
1229070261	
1322012051	
1322015020	
1322013122	
1322015023	
1432003065	
1322015107	
1322015189	
1432003186	
1432005234	
1322015297	
1432003160	
1432003091	
1432003313	
1322012112	
1322012153	
1322015341	
1432003237	
1322012082	
F002938	
GC20-0539-002	
1321005187	
GC20-0543-006	
GC20-0540-007	
1229075065	
GC20-0528-004	4.72
GC20-0545-011	
1321005105	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
1321005072	
GC20-0542-003	
1432098112	
GC20-0549-011	
1321005030	
1229074081	
GC20-0553-006	
1432098140	
GC20-0554-005	
F002937	
1322013397	
1322013393	
1229073016	
1229073021	
GC20-0850-014	
1322013517	
GC20-0980-014	
1229073070	
1322013462	
1229073001	
GC20-0373-019	
1229073396	
1322013185	
1432003185	
1322013119	
1322013193	
1322015004	
1322013389	
1322015083	
1322015028	
1322015134	
1322013335	
F002936	
GC20-0463-018	
GC20-0461-014	
GC20-0459-001	
GC20-0463-001	
1432004079	
GC20-0467-001	
1331004285	
1331004109	
1331004155	
1331004241	
GC20-0505-001	
GC20-0502-005	
1331004039	
1432004076	
GC20-0464-014	
GC20-0465-011	
GC20-0466-007	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
1331004103	
1432004113	
GC20-0467-018	
GC20-0503-012	
GC20-0501-001	
1331002287	
F002935	
GC20-0521-006	
GC20-0517-001	
GC20-0515-006	
GC20-0522- 009FD	
1229075050	
GC20-0516-005	
GC20-0514-001	
1229075077	
1321005177	
1321005015	
1229075048	
1229075001	
1229075014	
GC20-0524-009	
GC20-0531-013	
1321005180	
1321005142	
GC20-0525-003	
1321005145	
1229075016	
1322016106	
F002925	
1321001061	
GC20-0451-001	
GC20-0453-018	
GC20-0454-001	
GC20-0455-015	
GC20-0453-001	
GC20-0454-018	
GC20-0459-018	
1321001100	
1432004071	
1432004094	
1432004039	

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
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GS311-4 Cert																							
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GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
NBM-1 (slight fzz) Meas		43.0				8.45																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.0				8.32																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		42.8				8.11																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas						8.36																	
NBM-1 (slight fzz) Cert						8.53																	
OREAS 922 (AQUA REGIA) Meas								1.2	< 0.5	2270	770	< 1	38	58	259	2.79	6		84	0.7	10	0.45	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2270	749	< 1	35	61	264	2.69	5		71	0.7	6	0.40	18
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2310	767	< 1	32	60	253	2.97	6		78	0.7	6	0.39	20
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.7	< 0.5	2220	785	< 1	32	58	251	3.05	7		80	0.6	10	0.41	19

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas										2270				58	259								
OREAS 922 (AQUA REGIA) Cert										2176				60	256								
OREAS 923 (AQUA REGIA) Meas								1.6	< 0.5	4380	864	< 1	34	77	337	2.78	7		67	0.6	22	0.45	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.8	< 0.5	4560	875	< 1	36	80	344	2.82	8		53	0.6	21	0.41	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								2.1	< 0.5	4560	880	< 1	30	81	330	2.99	5		37	0.6	15	0.39	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.9	< 0.5	4440	883	< 1	31	82	330	3.02	7		64	0.6	15	0.41	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas										4380				77	337								
OREAS 923 (AQUA REGIA) Cert										4248				81	335								
Oreas 96 (Aqua Regia) Meas								11.8		> 10000				89	430							52	47
Oreas 96 (Aqua Regia) Cert								11.50		39100. 00				100	448							27.9	49.2
Oreas 96 (Aqua Regia) Meas								11.3		> 10000				85	395							50	44
Oreas 96 (Aqua Regia) Cert								11.50		39100. 00				100	448							27.9	49.2
Oreas 621 (Aqua Regia) Meas								68.5	300	3840	534	14	27	> 5000	> 10000	1.69	75			0.6	5	1.77	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								66.5	294	3580	528	13	24	> 5000	> 10000	1.67	76			0.6	3	1.70	28
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								69.2	293	3620	542	13	25	> 5000	> 10000	1.87	78			0.5	2	1.60	30
Oreas 621 (Aqua Regia) Meas								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Regia) Cert																							
Oreas 621 (Aqua Regia) Meas								65.5	276	3720	557	12	27	> 5000	> 10000	1.89	72			0.5	< 2	1.69	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas										3840				> 5000	> 10000								
Oreas 621 (Aqua Regia) Cert										3660				13600	51700								
OREAS 229b (Fire Assay) Meas																							
OREAS 229b (Fire Assay) Cert																							
OREAS 45f (Aqua Regia) Meas										346	158	< 1	221	7	29	7.13			152	1.0	< 2	0.07	40
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										329	176	< 1	222	9	26	7.69			146	1.0	< 2	0.08	40
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										346				7	29								
OREAS 45f (Aqua Regia) Cert										336				12.4	22.2								
OREAS 238 (Fire Assay) Meas								3120															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3100															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3140															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3070															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3050															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3050															
OREAS 238 (Fire Assay) Cert								3030															
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1331004155 Dup								0.7	0.8	239	924	< 1	67	< 2	283	3.18	7	< 10	23	< 0.5	< 2	3.50	35
1331004241 Orig								47															
1331004241 Dup								44															
1331002287 Orig								< 0.2	< 0.5	17	784	< 1	21	< 2	92	2.31	14	12	41	< 0.5	< 2	2.62	8
1331002287 Dup								< 0.2	< 0.5	18	789	< 1	22	< 2	92	2.32	13	11	40	< 0.5	< 2	2.63	9
GC20-0514-001 Orig							124																
GC20-0514-001 Dup							94																
1229075077 Orig	32.2	19.2	-13.0	36.1	0.531																		
1229075077 Dup	32.2	19.2	-13.0	36.1	0.532																		
1321005177 Orig																							
1321005177 Dup																							
1229075001 Orig								1.0	< 0.5	19	511	< 1	9	11	50	2.63	35	< 10	36	< 0.5	< 2	1.76	5
1229075001 Dup								1.1	< 0.5	19	505	< 1	10	11	51	2.59	33	< 10	36	< 0.5	< 2	1.75	6
1321005142 Orig							122																
1321005142 Dup							124																
1321001061 Orig																							
1321001061 Dup																							
GC20-0454-001 Orig								0.4	< 0.5	68	503	3	14	3	107	1.02	10	< 10	12	< 0.5	< 2	0.75	9
GC20-0454-001 Dup								0.4	< 0.5	66	499	3	14	3	105	1.02	9	< 10	14	< 0.5	< 2	0.76	10
1432004071 Orig						8.24																	
1432004071 Dup						8.24																	
1432004039 Orig	14.0	56.1	42.2	18.7	3.00																		
1432004039 Dup	14.0	56.1	42.1	18.7	3.00																		
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.06	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.08	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.04	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.09	0.55
GS311-4 Cert																						1.11	0.54
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	47	5.28	< 10		0.53	37	1.26	0.032	0.068	0.36	3	4	17			< 2	< 10	39	< 10	23	18		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	44	5.25	< 10		0.47	35	1.25	0.028	0.065	0.35	2	3	16			< 2	< 10	37	< 10	18	13		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	45	5.03	< 10		0.48	38	1.29	0.025	0.062	0.36	< 2	4	16			< 2	< 10	36	< 10	20	17		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	41	5.17	< 10		0.50	36	1.38	0.027	0.066	0.37	3	3	14			< 2	< 10	34	< 10	19	10		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
OREAS 922 (AQUA REGIA) Cert																							
OREAS 923 (AQUA REGIA) Meas	43	6.15	< 10		0.45	34	1.35		0.065	0.64	< 2	4	15			< 2	< 10	38	< 10	20	28		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	42	6.14	< 10		0.42	33	1.36		0.062	0.64	3	4	15			< 2	< 10	37	< 10	17	17		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	41	5.75	< 10		0.41	35	1.40		0.059	0.66	3	4	14			< 2	< 10	36	< 10	18	28		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	38	5.80	< 10		0.42	33	1.49		0.062	0.68	3	3	13			< 2	< 10	33	< 10	17	10		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas																							
OREAS 923 (AQUA REGIA) Cert																							
Oreas 96 (Aqua Regia) Meas										3.92	8												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										3.80	6												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 621 (Aqua Regia) Meas	31	3.31	10	6	0.39	19	0.41	0.176	0.036	4.59	112	2	19			< 2	< 10	14	< 10	8	69		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	28	3.37	10	5	0.38	19	0.41	0.177	0.033	4.64	92	2	19			< 2	< 10	13	< 10	8	43		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	32	3.42	< 10	4	0.39	21	0.44	0.182	0.033	4.57	103	2	18			< 2	< 10	14	< 10	8	53		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	32	3.57	< 10	4	0.38	19	0.47	0.187	0.037	4.86	108	2	16			< 2	< 10	13	< 10	7	64		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas																							
Oreas 621 (Aqua Regia) Meas																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
Regia) Cert																								
OREAS 229b (Fire Assay) Meas																								
OREAS 229b (Fire Assay) Cert																								
OREAS 45f (Aqua Regia) Meas	345	12.9	20	< 1	0.10	12	0.17	0.040	0.020	0.02		31	15	0.07		< 2	< 10	200			6	10		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217			6.74	30.0		
OREAS 45f (Aqua Regia) Meas	329	13.5	20	< 1	0.11	12	0.19	0.042	0.023	0.02		29	14	0.13		< 2	< 10	203			6	22		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217			6.74	30.0		
OREAS 45f (Aqua Regia) Meas																								
OREAS 45f (Aqua Regia) Cert																								
OREAS 238 (Fire Assay) Meas																								
OREAS 238 (Fire Assay) Cert																								
OREAS 238 (Fire Assay) Meas																								
OREAS 238 (Fire Assay) Cert																								
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OREAS 238 (Fire Assay) Meas																								
OREAS 238 (Fire Assay) Cert																								
OREAS 238 (Fire Assay) Meas																								
OREAS 238 (Fire Assay) Cert																								
GS316-3 Meas																							0.06	0.36
GS316-3 Cert																							0.0600	0.340
GS316-3 Meas																							0.06	0.36
GS316-3 Cert																							0.0600	0.340
GS316-3 Meas																							0.06	0.34
GS316-3 Cert																							0.0600	0.340
GS316-3 Meas																							0.06	0.33
GS316-3 Cert																							0.0600	0.340
GS316-3 Meas																							0.07	0.34
GS316-3 Cert																							0.0600	0.340
GS316-3 Meas																							0.06	0.35
GS316-3 Cert																							0.0600	0.340
GS316-3 Meas																							0.07	0.33
GS316-3 Cert																							0.0600	0.340
GS316-3 Meas																							0.07	0.35

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S		
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%		
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01		
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS		
GS316-3 Cert																							0.0600	0.340	
OREAS 257b (Fire Assay) Meas																									
OREAS 257b (Fire Assay) Cert																									
Oreas E1336 (Fire Assay) Meas																									
Oreas E1336 (Fire Assay) Cert																									
Oreas E1336 (Fire Assay) Meas																									
Oreas E1336 (Fire Assay) Cert																									
Oreas E1336 (Fire Assay) Meas																									
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Oreas E1336 (Fire Assay) Meas																									
Oreas E1336 (Fire Assay) Cert																									
Oreas E1336 (Fire Assay) Meas																									
Oreas E1336 (Fire Assay) Cert																									
Oreas E1336 (Fire Assay) Meas																									
GS317-5 Meas																								8.08	15.0
GS317-5 Cert																								8.46	15.5
GS317-5 Meas																								8.56	14.9
GS317-5 Cert																								8.46	15.5
GS317-5 Meas																								8.04	15.3
GS317-5 Cert																								8.46	15.5
GS317-5 Meas																								8.13	15.4
GS317-5 Cert																								8.46	15.5
GS317-5 Meas																								8.06	15.3
GS317-5 Cert																								8.46	15.5
GS317-5 Meas																								8.21	15.4
GS317-5 Cert																								8.46	15.5
GS317-5 Meas																								8.10	15.1
GS317-5 Cert																								8.46	15.5
GS317-5 Meas																								8.28	15.1
GS317-5 Cert																								8.46	15.5
GS317-5 Meas																								8.41	15.2
GS317-5 Cert																								8.46	15.5
GS317-5 Meas																								8.10	15.0
GS317-5 Cert																								8.46	15.5
GS317-5 Meas																								8.41	15.4
GS317-5 Cert																								8.46	15.5
GS317-5 Meas																								8.22	15.1
GS317-5 Cert																								8.46	15.5
GS317-5 Meas																								8.12	15.3
GS317-5 Cert																								8.46	15.5

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1321005142 Orig																							
1321005142 Dup																							
1321001061 Orig																						0.18	3.11
1321001061 Dup																						0.18	3.13
GC20-0454-001 Orig	238	2.53	< 10	< 1	0.41	13	0.74	0.061	0.041	1.93	< 2	1	23	0.05	1	< 2	< 10	20	< 10	3	18		
GC20-0454-001 Dup	243	2.51	< 10	< 1	0.41	13	0.74	0.060	0.041	1.92	< 2	1	23	0.05	2	< 2	< 10	21	< 10	3	19		
1432004071 Orig																							
1432004071 Dup																							
1432004039 Orig																							
1432004039 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
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Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 923 (AQUA REGIA) Meas	
OREAS 923 (AQUA REGIA) Cert	
OREAS 923 (AQUA REGIA) Meas	
OREAS 923 (AQUA REGIA) Cert	
OREAS 923 (AQUA REGIA) Meas	
OREAS 923 (AQUA REGIA) Cert	
OREAS 923 (AQUA REGIA) Meas	
OREAS 923 (AQUA REGIA) Cert	
OREAS 923 (AQUA REGIA) Meas	
OREAS 923 (AQUA REGIA) Cert	
Oreas 96 (Aqua Regia) Meas	
Oreas 96 (Aqua Regia) Cert	
Oreas 96 (Aqua Regia) Meas	
Oreas 96 (Aqua Regia) Cert	
Oreas 621 (Aqua Regia) Meas	
Oreas 621 (Aqua Regia) Cert	
Oreas 621 (Aqua Regia) Meas	
Oreas 621 (Aqua Regia) Cert	
Oreas 621 (Aqua Regia) Meas	
Oreas 621 (Aqua Regia) Cert	
Oreas 621 (Aqua Regia) Meas	
Oreas 621 (Aqua Regia) Cert	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
Oreas 621 (Aqua Regia) Meas	
Oreas 621 (Aqua Regia) Cert	
OREAS 229b (Fire Assay) Meas	12.2
OREAS 229b (Fire Assay) Cert	11.9
OREAS 45f (Aqua Regia) Meas	
OREAS 45f (Aqua Regia) Cert	
OREAS 45f (Aqua Regia) Meas	
OREAS 45f (Aqua Regia) Cert	
OREAS 45f (Aqua Regia) Meas	
OREAS 45f (Aqua Regia) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
OREAS 257b (Fire Assay) Meas	14.5
OREAS 257b (Fire Assay) Cert	14.2
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	
Oreas E1336 (Fire Assay) Meas	
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Oreas E1336 (Fire Assay) Cert	
GS317-5 Meas	
GS317-5 Cert	
GS317-5 Meas	
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GS317-5 Cert	
GS317-5 Meas	
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GS317-5 Meas	
GS317-5 Cert	
GS317-5 Meas	
GS317-5 Cert	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
GS317-5 Meas	
GS317-5 Cert	
GS317-5 Meas	
GS317-5 Cert	
1325001054 Orig	
1325001054 Dup	
1321007068 Orig	
1321007068 Dup	
1328070076 Orig	
1328070076 Dup	
1325001701 Orig	43.3
1325001701 Dup	42.5
1321007018 Orig	
1321007018 Dup	
1229070261 Orig	
1229070261 Dup	
1432003065 Orig	
1432003065 Dup	
1322015341 Orig	
1322015341 Dup	
F002938 Orig	
F002938 Dup	
1321005187 Orig	
1321005187 Dup	
1321005030 Orig	
1321005030 Dup	
1432098140 Orig	
1432098140 Dup	
1322013393 Orig	
1322013393 Dup	
1432003185 Orig	
1432003185 Dup	
1322015083 Orig	
1322015083 Dup	
GC20-0467-001 Orig	
GC20-0467-001 Dup	
1331004285 Orig	
1331004285 Dup	
1331004155 Orig	
1331004155 Dup	
1331004241 Orig	
1331004241 Dup	
1331002287 Orig	
1331002287 Dup	
GC20-0514-001 Orig	
GC20-0514-001 Dup	
1229075077 Orig	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA- GRA
1229075077 Dup	
1321005177 Orig	
1321005177 Dup	
1229075001 Orig	
1229075001 Dup	
1321005142 Orig	
1321005142 Dup	
1321001061 Orig	
1321001061 Dup	
GC20-0454-001 Orig	
GC20-0454-001 Dup	
1432004071 Orig	
1432004071 Dup	
1432004039 Orig	
1432004039 Dup	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
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Method Blank	< 0.02
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Method Blank	



Report No.: A20-16165
 Report Date: 10-Feb-21
 Date Submitted: 16-Dec-20
 Your Reference: 2020 October_November
 Check Assays

New Gold Inc.
 1800-Two Bentall Centre
 555 Burrard Street, Box 212
 Vancouver BC V7X 1M9
 Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

118 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek Package	Acid Base Accounting	2021-01-28 15:09:41
4F-C, S	Infrared	2021-01-08 21:46:28

REPORT A20-16165

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

<original signed by>

ACTIVATION LABORATORIES LTD.
 41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
 TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613
 E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Emmanuel Esemé, Ph.D.
 Quality Control Coordinator

Report No.: A20-16165
Report Date: 10-Feb-21
Date Submitted: 16-Dec-20
Your Reference: 2020 October_November
 Check Assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

118 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2021-01-17 22:26:44
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2021-01-26 14:49:58

REPORT **A20-16165**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

<original signed by>



Emmanuel Esemé, Ph.D.
 Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
 1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
 TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
 E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A20-16165

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GC20-0641-001							152	0.9	< 0.5	330	190	15	7	< 2	38	1.66	2	< 10	40	< 0.5	< 2	0.37	7

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS311-4 Cert																							
GS311-4 Meas																							
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GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
NBM-1 (slight fzz) Meas		43.7				8.45																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.7				8.32																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas						8.11																	
NBM-1 (slight fzz) Cert						8.53																	
NBM-1 (slight fzz) Meas						8.36																	
NBM-1 (slight fzz) Cert						8.53																	
OREAS 922 (AQUA REGIA) Meas								1.2	< 0.5	2270	770	< 1	38	58	259	2.79	6		84	0.7	10	0.45	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2270	749	< 1	35	61	264	2.69	5		71	0.7	6	0.40	18
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2310	767	< 1	32	60	253	2.97	6		78	0.7	6	0.39	20
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.7	< 0.5	2220	785	< 1	32	58	251	3.05	7		80	0.6	10	0.41	19

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas										2270				58	259								
OREAS 922 (AQUA REGIA) Cert										2176				60	256								
OREAS 923 (AQUA REGIA) Meas								1.6	< 0.5	4380	864	< 1	34	77	337	2.78	7		67	0.6	22	0.45	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.8	< 0.5	4560	875	< 1	36	80	344	2.82	8		53	0.6	21	0.41	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								2.1	< 0.5	4560	880	< 1	30	81	330	2.99	5		37	0.6	15	0.39	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.9	< 0.5	4440	883	< 1	31	82	330	3.02	7		64	0.6	15	0.41	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas										4380				77	337								
OREAS 923 (AQUA REGIA) Cert										4248				81	335								
Oreas 96 (Aqua Regia) Meas								11.8		> 10000				89	430							52	47
Oreas 96 (Aqua Regia) Cert								11.50		39100. 00				100	448							27.9	49.2
Oreas 96 (Aqua Regia) Meas								11.3		> 10000				85	395							50	44
Oreas 96 (Aqua Regia) Cert								11.50		39100. 00				100	448							27.9	49.2
Oreas 621 (Aqua Regia) Meas								68.5	300	3840	534	14	27	> 5000	> 10000	1.69	75			0.6	5	1.77	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								66.5	294	3580	528	13	24	> 5000	> 10000	1.67	76			0.6	3	1.70	28
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								69.2	293	3620	542	13	25	> 5000	> 10000	1.87	78			0.5	2	1.60	30
Oreas 621 (Aqua Regia) Meas								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Regia) Cert																							
Oreas 621 (Aqua Regia) Meas								65.5	276	3720	557	12	27	> 5000	> 10000	1.89	72			0.5	< 2	1.69	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas										3840				> 5000	> 10000								
Oreas 621 (Aqua Regia) Cert										3660				13600	51700								
OREAS 45f (Aqua Regia) Meas										346	158	< 1	221	7	29	7.13			152	1.0	< 2	0.07	40
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										329	176	< 1	222	9	26	7.69			146	1.0	< 2	0.08	40
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										346				7	29								
OREAS 45f (Aqua Regia) Cert										336				12.4	22.2								
OREAS 238 (Fire Assay) Meas								3170															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3150															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3130															
OREAS 238 (Fire Assay) Cert								3030															
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
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GS316-3 Meas																							
GS316-3 Cert																							
Oreas E1336 (Fire Assay) Meas								512															
Oreas E1336 (Fire Assay) Cert								510															

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Oreas E1336 (Fire Assay) Meas							513																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							514																
Oreas E1336 (Fire Assay) Cert							510																
GS317-5 Meas																							
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GS317-5 Meas																							
GS317-5 Cert																							
1322011151 Orig								1.7	< 0.5	45	457	1	13	4	63	1.67	26	< 10	37	< 0.5	6	1.28	9
1322011151 Dup								1.9	< 0.5	44	462	1	13	5	60	1.71	24	< 10	38	< 0.5	7	1.27	10
1322011050 Orig							31																
1322011050 Dup							34																
GC20-0920-016 Orig							127																
GC20-0920-016 Dup							143																
1322009131 Orig								4.6	0.7	151	409	< 1	7	30	191	1.88	14	< 10	43	< 0.5	12	0.81	8
1322009131 Dup								4.8	0.7	153	416	< 1	8	32	197	1.93	15	< 10	45	< 0.5	12	0.84	9
1322009113 Orig							143																
1322009113 Dup							137																
GC20-0409-001 Orig								1.8	0.5	28	1220	< 1	11	47	148	0.85	104	< 10	35	< 0.5	< 2	3.61	6
GC20-0409-001 Dup								1.6	< 0.5	28	1220	< 1	10	45	138	0.80	92	< 10	34	< 0.5	3	3.58	6
1322007146 Orig																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1322007146 Dup																							
1322007017 Orig							310																
1322007017 Dup							420																
GC20-0401-021 Orig								17.9	5.2	1350	569	< 1	20	190	1100	1.25	518	< 10	16	< 0.5	9	0.16	10
GC20-0401-021 Dup								15.5	5.2	1330	559	< 1	21	190	1110	1.23	511	< 10	12	< 0.5	10	0.16	10
1229073252 Orig							475																
1229073252 Dup							458																
1322010018 Orig	66.8	12.5	-54.3	73.5	0.170																		
1322010018 Dup	66.8	12.5	-54.3	73.5	0.170																		
1322013475 Orig							80																
1322013475 Dup							80																
1328070019 Orig								2.3	0.8	19	744	< 1	11	163	267	1.23	56	< 10	31	< 0.5	< 2	1.69	8
1328070019 Dup								2.4	0.7	17	745	< 1	11	157	262	1.21	65	< 10	28	< 0.5	< 2	1.69	8
1321007054 Orig																							
1321007054 Dup																							
1321007164 Orig							35																
1321007164 Dup							32																
1330050130 Orig								< 0.2	< 0.5	6	812	< 1	16	2	89	2.64	7	11	51	< 0.5	3	2.44	8
1330050130 Dup								0.2	< 0.5	5	813	< 1	17	3	89	2.63	11	10	50	< 0.5	2	2.42	7
1330050282 Orig																							
1330050282 Dup																							
1330050338 Orig							22																
1330050338 Dup							22																
1330050241 Orig							24																
1330050241 Dup							24																
1321005201 Orig	55.1	11.6	-43.5	59.1	0.196																		
1321005201 Dup	55.1	11.6	-43.5	59.1	0.197																		
1322015251 Orig						8.35																	
1322015251 Dup						8.35																	
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
GXR-6 Meas	79	5.95	20	3	1.17	< 10	0.39	0.134	0.036	0.01	3	17	31		< 1	< 2	< 10	177	< 10	4	8			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
GXR-6 Meas	76	5.85	20	2	1.14	< 10	0.38	0.125	0.033	0.01	3	17	29		< 1	< 2	< 10	168	< 10	4	5			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
GXR-6 Meas	77	5.37	20	< 1	1.14	12	0.39	0.080	0.033	0.01	5	23	35		< 1	< 2	< 10	170	< 10	7	9			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
GXR-6 Meas	71	5.40	10	< 1	1.13	10	0.40	0.079	0.035	0.01	4	21	32		< 1	< 2	< 10	158	< 10	6	10			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
GXR-6 Meas																								
GXR-6 Cert																								
BaSO4 Meas																							14.1	
BaSO4 Cert																							14.0	
BaSO4 Meas																							14.1	
BaSO4 Cert																							14.0	
BaSO4 Meas																							14.4	
BaSO4 Cert																							14.0	
BaSO4 Meas																							14.3	
BaSO4 Cert																							14.0	
BaSO4 Meas																							14.3	
BaSO4 Cert																							14.0	
BaSO4 Meas																							14.3	
BaSO4 Cert																							14.0	
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BaSO4 Cert																							14.0	
BaSO4 Meas																							14.3	
BaSO4 Cert																							14.0	
BaSO4 Meas																							14.3	
BaSO4 Cert																							14.0	
BaSO4 Meas																							14.1	
BaSO4 Cert																							14.0	
BaSO4 Meas																							13.6	
BaSO4 Cert																							14.0	
BaSO4 Meas																							14.1	
BaSO4 Cert																							14.0	
BaSO4 Meas																							14.1	
BaSO4 Cert																							14.0	
GS311-4 Meas																							1.10	0.55
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.07	0.55
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.08	0.56
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.07	0.56
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.07	0.56
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.07	0.57
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.09	0.55

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.06	0.54
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.07	0.55
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.08	0.55
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.07	0.56
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.07	0.56
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.04	0.55
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.09	0.55
GS311-4 Cert																							1.11	0.54
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
OREAS 922 (AQUA REGIA) Meas	47	5.28	< 10		0.53	37	1.26	0.032	0.068	0.36	3	4	17			< 2	< 10	39	< 10	23	18			
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3			
OREAS 922 (AQUA REGIA) Meas	44	5.25	< 10		0.47	35	1.25	0.028	0.065	0.35	2	3	16			< 2	< 10	37	< 10	18	13			
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3			
OREAS 922 (AQUA REGIA) Meas	45	5.03	< 10		0.48	38	1.29	0.025	0.062	0.36	< 2	4	16			< 2	< 10	36	< 10	20	17			
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3			
OREAS 922 (AQUA REGIA) Meas	41	5.17	< 10		0.50	36	1.38	0.027	0.066	0.37	3	3	14			< 2	< 10	34	< 10	19	10			
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3			
OREAS 922 (AQUA REGIA) Meas																								

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
OREAS 922 (AQUA REGIA) Cert																							
OREAS 923 (AQUA REGIA) Meas	43	6.15	< 10		0.45	34	1.35		0.065	0.64	< 2	4	15			< 2	< 10	38	< 10	20	28		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	42	6.14	< 10		0.42	33	1.36		0.062	0.64	3	4	15			< 2	< 10	37	< 10	17	17		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	41	5.75	< 10		0.41	35	1.40		0.059	0.66	3	4	14			< 2	< 10	36	< 10	18	28		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	38	5.80	< 10		0.42	33	1.49		0.062	0.68	3	3	13			< 2	< 10	33	< 10	17	10		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas																							
OREAS 923 (AQUA REGIA) Cert																							
Oreas 96 (Aqua Regia) Meas										3.92	8												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										3.80	6												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 621 (Aqua Regia) Meas	31	3.31	10	6	0.39	19	0.41	0.176	0.036	4.59	112	2	19			< 2	< 10	14	< 10	8	69		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	28	3.37	10	5	0.38	19	0.41	0.177	0.033	4.64	92	2	19			< 2	< 10	13	< 10	8	43		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	32	3.42	< 10	4	0.39	21	0.44	0.182	0.033	4.57	103	2	18			< 2	< 10	14	< 10	8	53		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	32	3.57	< 10	4	0.38	19	0.47	0.187	0.037	4.86	108	2	16			< 2	< 10	13	< 10	7	64		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas																							
Oreas 621 (Aqua Regia) Meas																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Regia) Cert																							
OREAS 45f (Aqua Regia) Meas	345	12.9	20	< 1	0.10	12	0.17	0.040	0.020	0.02		31	15	0.07		< 2	< 10	200		6	10		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 45f (Aqua Regia) Meas	329	13.5	20	< 1	0.11	12	0.19	0.042	0.023	0.02		29	14	0.13		< 2	< 10	203		6	22		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 45f (Aqua Regia) Meas																							
OREAS 45f (Aqua Regia) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																							0.06
GS316-3 Cert																							0.0600
GS316-3 Meas																							0.06
GS316-3 Cert																							0.0600
GS316-3 Meas																							0.06
GS316-3 Cert																							0.0600
GS316-3 Meas																							0.06
GS316-3 Cert																							0.0600
GS316-3 Meas																							0.07
GS316-3 Cert																							0.07
GS316-3 Meas																							0.06
GS316-3 Cert																							0.0600
GS316-3 Meas																							0.07
GS316-3 Cert																							0.0600
GS316-3 Meas																							0.07
GS316-3 Cert																							0.0600
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
GS317-5 Meas																							8.08
GS317-5 Cert																							8.46
GS317-5 Meas																							8.56

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.04	15.3
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.13	15.4
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.06	15.3
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.21	15.4
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.10	15.1
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.28	15.1
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.41	15.2
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.10	15.0
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.41	15.4
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.22	15.1
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.12	15.3
GS317-5 Cert																						8.46	15.5
1322011151 Orig	155	1.95	< 10	< 1	0.25	15	0.76	0.134	0.043	1.53	< 2	< 1	60	0.03	1	< 2	< 10	11	< 10	2	16	0.24	1.59
1322011151 Dup	155	1.98	< 10	< 1	0.25	15	0.77	0.139	0.044	1.59	< 2	< 1	60	0.03	1	< 2	< 10	11	< 10	2	16	0.24	1.56
1322011050 Orig																							
1322011050 Dup																							
GC20-0920-016 Orig																							
GC20-0920-016 Dup																							
1322009131 Orig	174	2.38	< 10	< 1	0.32	16	0.87	0.144	0.047	1.96	< 2	< 1	52	< 0.01	10	< 2	< 10	8	< 10	3	16		
1322009131 Dup	177	2.40	< 10	< 1	0.33	17	0.89	0.149	0.048	1.97	< 2	< 1	54	< 0.01	9	< 2	< 10	8	< 10	3	16		
1322009113 Orig																						0.16	1.43
1322009113 Dup																						0.17	1.38
GC20-0409-001 Orig	152	1.21	< 10	< 1	0.33	14	0.41	0.028	0.043	1.12	< 2	< 1	34	< 0.01	< 1	< 2	< 10	5	< 10	2	6		
GC20-0409-001 Dup	151	1.20	< 10	< 1	0.31	15	0.40	0.026	0.043	1.12	< 2	< 1	34	< 0.01	< 1	< 2	< 10	5	< 10	2	7		
1322007146 Orig																						0.20	2.12
1322007146 Dup																						0.20	2.13
1322007017 Orig																							
1322007017 Dup																							
GC20-0401-021 Orig	226	5.58	< 10	2	0.39	14	0.66	0.033	0.044	6.50	9	< 1	8	< 0.01	1	< 2	< 10	10	< 10	2	11		
GC20-0401-021 Dup	222	5.55	< 10	2	0.38	14	0.65	0.033	0.044	6.45	9	< 1	8	< 0.01	< 1	< 2	< 10	10	< 10	2	11		
1229073252 Orig																							
1229073252 Dup																							
1322010018 Orig																						0.22	2.40
1322010018 Dup																						0.22	2.41
1322013475 Orig																							
1322013475 Dup																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1328070019 Orig	161	2.06	< 10	< 1	0.32	17	0.23	0.123	0.042	2.15	3	< 1	49	0.02	< 1	< 2	< 10	5	< 10	2	15		
1328070019 Dup	163	2.06	< 10	< 1	0.31	16	0.23	0.120	0.042	2.13	3	< 1	48	0.02	< 1	< 2	< 10	5	< 10	2	15		
1321007054 Orig																						0.16	0.82
1321007054 Dup																						0.16	0.82
1321007164 Orig																							
1321007164 Dup																							
1330050130 Orig	101	2.26	< 10	< 1	0.29	16	1.36	0.192	0.047	0.39	< 2	1	80	0.03	< 1	< 2	< 10	21	< 10	3	7		
1330050130 Dup	102	2.29	< 10	< 1	0.29	15	1.35	0.192	0.048	0.39	< 2	1	79	0.03	< 1	< 2	< 10	20	< 10	3	6		
1330050282 Orig																						0.38	0.59
1330050282 Dup																						0.39	0.59
1330050338 Orig																							
1330050338 Dup																							
1330050241 Orig																							
1330050241 Dup																							
1321005201 Orig																							
1321005201 Dup																							
1322015251 Orig																						0.28	0.94
1322015251 Dup																						0.28	0.94
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							



Report No.: A20-16166
Report Date: 18-Feb-21
Date Submitted: 16-Dec-20
Your Reference: 2020 October_November
Check Assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

141 Pulp samples were submitted for analysis.

Table with 3 columns: The following analytical package(s) were requested, Testing Date, and details of packages like 11 ABA Modified Sobek Package, Acid Base Accounting, 4F-C, S, Infrared.

REPORT A20-16166

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

<original signed by>

[Signature]

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
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E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Report No.: A20-16166
Report Date: 18-Feb-21
Date Submitted: 16-Dec-20
Your Reference: 2020 October_November
Check Assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

141 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2021-01-15 20:30:46
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2021-01-29 11:00:48

REPORT A20-16166

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

<original signed by>

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Cert																							
NBM-1 (slight fzz) Meas		41.9				7.55																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.0				8.03																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
OREAS 922 (AQUA REGIA) Meas								1.3	< 0.5	2280	724	< 1	35	60	245	2.95	5		80	0.7	8	0.39	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2210	727	< 1	36	59	251	2.89	5		78	0.7	8	0.40	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2300	738	< 1	37	62	253	2.88	7		69	0.6	9	0.38	20
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								1.9	< 0.5	4400	821	< 1	34	82	309	2.90	7		60	0.6	24	0.39	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								3.6	< 0.5	4400	817	< 1	33	80	312	2.89	9		60	0.6	23	0.39	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.6	< 0.5	4640	855	< 1	34	83	330	2.97	8		57	0.6	25	0.39	23
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 96 (Aqua Regia) Meas								10.8		> 10000				85	388						63		47
Oreas 96 (Aqua Regia) Cert								11.50		39100. 00				100	448						27.9		49.2
Oreas 96 (Aqua Regia) Meas								10.9		> 10000				85	395						69		45
Oreas 96 (Aqua Regia) Cert								11.50		39100. 00				100	448						27.9		49.2
Oreas 96 (Aqua Regia) Meas								11.5		> 10000				86	401						69		49
Oreas 96 (Aqua Regia) Cert								11.50		39100. 00				100	448						27.9		49.2
Oreas 621 (Aqua								67.0	290	3710	521	13	25	> 5000	> 10000	1.86	76			0.5	5	1.63	31

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Regia) Meas																							
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								65.2	286	3560	515	12	25	> 5000	> 10000	1.76	73			0.5	8	1.62	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								66.8	293	3560	526	11	26	> 5000	> 10000	1.79	75			0.5	11	1.67	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 238 (Fire Assay) Meas							3100																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3140																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3080																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3050																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3080																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3060																
OREAS 238 (Fire Assay) Cert							3030																
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
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GS316-3 Cert																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Oreas E1336 (Fire Assay) Meas							501																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							517																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							516																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							517																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							530																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							517																
Oreas E1336 (Fire Assay) Cert							510																
GS317-5 Meas																							
GS317-5 Cert																							
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GS317-5 Meas																							
GS317-5 Cert																							
GS317-5 Meas																							
GS317-5 Cert																							
GC20-0359-006 Orig								< 0.2	< 0.5	5	141	< 1	12	3	30	2.96	11	10	59	0.5	4	0.70	8
GC20-0359-006 Dup								0.2	< 0.5	5	144	< 1	12	3	31	3.01	9	< 10	59	0.5	< 2	0.71	7
GC20-0358-008 Orig							206																
GC20-0358-008 Dup							213																
1229071146 Orig							21																

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1229071146 Dup							17																
1322003034 Orig							163	1.0	0.7	25	654	< 1	12	23	199	2.07	42	< 10	30	< 0.5	< 2	2.15	10
1322003034 Dup							155	1.0	1.0	26	671	< 1	12	27	205	2.12	38	< 10	28	< 0.5	< 2	2.16	9
1322003017 Orig								0.9	0.5	27	766	< 1	20	25	172	2.68	22	< 10	32	< 0.5	5	1.75	11
1322003017 Dup								0.8	< 0.5	27	767	1	20	25	171	2.71	19	< 10	32	< 0.5	4	1.78	10
1322006193 Orig																							
1322006193 Dup																							
1322006039 Orig							634																
1322006039 Dup							672																
GC20-0421-0013 Orig								0.6	0.6	35	204	< 1	17	5	72	1.33	26	< 10	64	< 0.5	< 2	0.69	11
GC20-0421-0013 Dup								0.3	< 0.5	36	206	< 1	17	5	80	1.34	30	< 10	63	< 0.5	< 2	0.69	11
GC20-0434-009FD Orig							78																
GC20-0434-009FD Dup							80																
1322006254 Orig	79.2	4.43	-74.7	86.4	0.0513																		
1322006254 Dup	79.2	4.31	-74.8	86.4	0.0499																		
1432090172 Orig							31																
1432090172 Dup							21																
1432090240 Orig																							
1432090240 Dup																							
F002441 Orig								2.8	< 0.5	37	243	16	13	14	39	1.39	4	< 10	48	< 0.5	< 2	0.89	9
F002441 Dup								2.5	< 0.5	38	247	16	13	15	39	1.41	4	< 10	49	< 0.5	< 2	0.90	9
1322013311 Orig																							
1322013311 Dup																							
1433092037 Orig							< 5																
1433092037 Dup							6																
1229069017 Orig																							
1229069017 Dup																							
1322010096 Orig								0.6	< 0.5	71	299	3	21	6	48	2.26	12	< 10	11	< 0.5	5	1.04	10
1322010096 Dup								0.6	< 0.5	72	301	3	23	7	49	2.27	13	< 10	12	< 0.5	6	1.04	10
1433092224 Orig							8																
1433092224 Dup							11																
1322013308 Orig							8.39																
1322013308 Dup							8.29																
1433092051 Orig							15																
1433092051 Dup							14																
1229070153 Orig								2.5	2.4	72	770	< 1	7	389	549	1.21	54	< 10	38	< 0.5	< 2	1.31	4
1229070153 Dup								2.8	2.3	73	784	< 1	7	395	551	1.24	47	< 10	39	< 0.5	< 2	1.33	4
1322010001 Orig	78.8	12.5	-66.4	83.0	0.150																		
1322010001 Dup	78.8	12.6	-66.3	83.0	0.151																		
1322011226 Orig																							
1322011226 Dup																							
1229073047 Orig							8																
1229073047 Dup							6																
F001616 Orig								1.7	< 0.5	64	223	12	10	21	43	1.29	< 2	< 10	45	< 0.5	< 2	0.82	9
F001616 Dup								1.7	< 0.5	58	228	12	11	22	43	1.33	< 2	< 10	45	< 0.5	< 2	0.83	9
1322008143 Orig																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1322008143 Dup																							
1322008096 Orig								0.5	< 0.5	149	287	< 1	16	3	156	2.52	5	< 10	21	< 0.5	3	1.21	10
1322008096 Dup								0.6	0.7	155	296	< 1	16	< 2	158	2.61	6	< 10	20	< 0.5	2	1.24	10
1322009395 Orig																							
1322009395 Dup																							
1229070179 Orig	15.8	16.5	0.654	18.7	0.882																		
1229070179 Dup	15.8	16.8	0.977	18.7	0.900																		
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
GXR-6 Meas	76	5.71	20	1	1.10	< 10	0.37	0.127	0.034	0.01	3	16	30		< 1	< 2	< 10	163	< 10	4	4			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
GXR-6 Meas	77	5.80	20	2	1.11	< 10	0.38	0.126	0.035	0.01	< 2	16	30		< 1	< 2	< 10	168	< 10	4	5			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
GXR-6 Meas	76	5.71	20	3	1.10	< 10	0.37	0.126	0.034	0.01	3	16	30		< 1	< 2	< 10	164	< 10	4	4			
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110			
BaSO4 Meas																							14.4	
BaSO4 Cert																								14.0
BaSO4 Meas																								13.8
BaSO4 Cert																								14.0
BaSO4 Meas																								13.7
BaSO4 Cert																								14.0
BaSO4 Meas																								13.6
BaSO4 Cert																								14.0
BaSO4 Meas																								14.0
BaSO4 Cert																								14.0
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BaSO4 Cert																								14.0
BaSO4 Meas																								14.0
BaSO4 Cert																								14.0
BaSO4 Meas																								14.0
BaSO4 Cert																								14.0
GS311-4 Meas																							1.06	0.55
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.07	0.56
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.08	0.54
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.08	0.55
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.08	0.56
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.07	0.56
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.09	0.55
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.09	0.56
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.04	0.53
GS311-4 Cert																							1.11	0.54
GS311-4 Meas																							1.08	0.55
GS311-4 Cert																							1.11	0.54
NBM-1 (slight fzz) Meas																								
NBM-1 (slight fzz) Cert																								
NBM-1 (slight fzz) Meas																								

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	45	5.13	< 10		0.48	38	1.24	0.030	0.064	0.36	< 2	4	16			< 2	< 10	37	< 10	20	10		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	44	4.97	< 10		0.47	38	1.22	0.028	0.065	0.35	< 2	4	16			< 2	< 10	37	< 10	20	12		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	45	5.22	< 10		0.43	37	1.23	0.027	0.064	0.36	2	3	16			< 2	< 10	35	< 10	17	9		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 923 (AQUA REGIA) Meas	41	5.76	< 10		0.40	34	1.30		0.062	0.65	3	4	14			< 2	< 10	36	< 10	18	21		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	41	5.84	< 10		0.40	35	1.30		0.062	0.64	< 2	3	14			< 2	< 10	35	< 10	18	23		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	41	6.17	< 10		0.38	34	1.35		0.066	0.67	3	3	15			< 2	< 10	36	< 10	16	17		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 96 (Aqua Regia) Meas										3.90	5												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										3.87	5												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										4.02	5												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 621 (Aqua Regia) Meas	30	3.27	10	4	0.39	20	0.41	0.178	0.034	4.72	92	2	18			< 2	< 10	14	< 10	7	46		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	30	3.20	< 10	4	0.36	19	0.40	0.171	0.033	4.40	87	2	17			3	< 10	13	< 10	7	43		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	32	3.25	< 10	3	0.36	20	0.40	0.175	0.035	4.24	91	2	18			< 2	< 10	13	< 10	7	56		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
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OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.36
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.33
GS316-3 Cert																						0.0600	0.340
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S	
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS	
Oreas E1336 (Fire Assay) Meas																								
Oreas E1336 (Fire Assay) Cert																								
Oreas E1336 (Fire Assay) Meas																								
Oreas E1336 (Fire Assay) Cert																								
Oreas E1336 (Fire Assay) Meas																								
Oreas E1336 (Fire Assay) Cert																								
Oreas E1336 (Fire Assay) Meas																								
Oreas E1336 (Fire Assay) Cert																								
Oreas E1336 (Fire Assay) Meas																								
Oreas E1336 (Fire Assay) Cert																								
GS317-5 Meas																						8.24	15.2	
GS317-5 Cert																						8.46	15.5	
GS317-5 Meas																						8.10	15.5	
GS317-5 Cert																						8.46	15.5	
GS317-5 Meas																						8.33	15.3	
GS317-5 Cert																						8.46	15.5	
GS317-5 Meas																						8.28	14.9	
GS317-5 Cert																						8.46	15.5	
GS317-5 Meas																						8.04	15.0	
GS317-5 Cert																						8.46	15.5	
GS317-5 Meas																						8.25	15.0	
GS317-5 Cert																						8.46	15.5	
GS317-5 Meas																						8.19	15.0	
GS317-5 Cert																						8.46	15.5	
GS317-5 Meas																						8.38	14.8	
GS317-5 Cert																						8.46	15.5	
GS317-5 Meas																						8.22	14.7	
GS317-5 Cert																						8.46	15.5	
GS317-5 Meas																						8.17	15.0	
GS317-5 Cert																						8.46	15.5	
GC20-0359-006 Orig	179	1.40	< 10	< 1	0.11	< 10	0.37	0.122	0.032	0.30	< 2	< 1	86	< 0.01	2	< 2	< 10	12	< 10	< 1	5			
GC20-0359-006 Dup	181	1.43	< 10	< 1	0.12	< 10	0.38	0.121	0.032	0.31	< 2	< 1	87	< 0.01	< 1	2	< 10	12	< 10	< 1	5			
GC20-0358-008 Orig																								
GC20-0358-008 Dup																								
1229071146 Orig																								
1229071146 Dup																								
1322003034 Orig	193	2.26	< 10	< 1	0.19	25	1.07	0.182	0.059	1.54	< 2	< 1	110	< 0.01	2	< 2	< 10	12	< 10	3	2	0.55	1.55	
1322003034 Dup	190	2.29	< 10	< 1	0.19	26	1.09	0.189	0.060	1.56	< 2	< 1	113	< 0.01	1	< 2	< 10	12	< 10	3	3	0.55	1.52	
1322003017 Orig	328	2.49	< 10	< 1	0.16	21	1.41	0.211	0.055	1.27	< 2	1	88	< 0.01	2	< 2	< 10	20	< 10	3	4			
1322003017 Dup	327	2.45	< 10	< 1	0.17	21	1.41	0.220	0.054	1.27	< 2	2	92	0.01	2	< 2	< 10	20	< 10	3	2			
1322006193 Orig																							0.19	2.29
1322006193 Dup																							0.18	2.21
1322006039 Orig																							0.38	1.74
1322006039 Dup																							0.38	1.71

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GC20-0421-0013 Orig	228	1.51	< 10	< 1	0.18	< 10	0.37	0.078	0.031	0.42	< 2	1	30	0.01	< 1	< 2	< 10	14	< 10	1	4		
GC20-0421-0013 Dup	230	1.52	< 10	< 1	0.18	< 10	0.37	0.078	0.029	0.42	< 2	1	31	0.01	< 1	< 2	< 10	14	< 10	1	4		
GC20-0434-009FD Orig																							
GC20-0434-009FD Dup																							
1322006254 Orig																							
1322006254 Dup																							
1432090172 Orig																							
1432090172 Dup																							
1432090240 Orig																						0.45	0.72
1432090240 Dup																						0.44	0.72
F002441 Orig	14	1.93	< 10	< 1	0.26	13	0.49	0.210	0.052	0.05	< 2	3	32	0.25	2	< 2	< 10	62	< 10	17	7		
F002441 Dup	15	1.97	< 10	< 1	0.27	14	0.50	0.214	0.053	0.05	< 2	3	33	0.25	2	< 2	< 10	63	< 10	18	8		
1322013311 Orig																						0.25	1.59
1322013311 Dup																						0.26	1.66
1433092037 Orig																							
1433092037 Dup																							
1229069017 Orig																						0.62	2.33
1229069017 Dup																						0.63	2.38
1322010096 Orig	533	3.77	< 10	< 1	0.29	15	0.95	0.202	0.045	3.17	3	1	109	0.03	2	< 2	< 10	19	< 10	3	21		
1322010096 Dup	532	3.78	< 10	2	0.29	15	0.96	0.203	0.045	3.18	3	1	108	0.03	< 1	< 2	< 10	19	< 10	3	21		
1433092224 Orig																							
1433092224 Dup																							
1322013308 Orig																							
1322013308 Dup																							
1433092051 Orig																						0.34	2.32
1433092051 Dup																						0.34	2.32
1229070153 Orig	139	0.82	< 10	1	0.33	19	0.15	0.078	0.038	0.73	< 2	< 1	44	< 0.01	< 1	< 2	< 10	5	< 10	1	3		
1229070153 Dup	141	0.85	< 10	< 1	0.34	19	0.16	0.079	0.039	0.76	< 2	< 1	45	< 0.01	< 1	< 2	< 10	5	< 10	1	2		
1322010001 Orig																							
1322010001 Dup																							
1322011226 Orig																						0.39	0.99
1322011226 Dup																						0.38	0.98
1229073047 Orig																							
1229073047 Dup																							
F001616 Orig	14	1.76	< 10	< 1	0.25	15	0.43	0.191	0.049	0.05	< 2	2	31	0.20	2	< 2	< 10	54	< 10	18	4		
F001616 Dup	14	1.79	< 10	< 1	0.25	15	0.43	0.200	0.048	0.05	< 2	2	32	0.21	2	< 2	< 10	55	< 10	18	3		
1322008143 Orig																						0.39	1.22
1322008143 Dup																						0.40	1.22
1322008096 Orig	250	2.60	< 10	< 1	0.33	15	0.96	0.195	0.039	1.81	< 2	1	78	0.05	< 1	< 2	< 10	21	< 10	2	9		
1322008096 Dup	258	2.70	< 10	< 1	0.34	15	1.00	0.202	0.040	1.86	< 2	1	81	0.05	3	< 2	< 10	21	< 10	3	10		
1322009395 Orig																						0.15	2.19
1322009395 Dup																						0.15	2.22
1229070179 Orig																							
1229070179 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.005	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.006	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.008	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.008	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		



Report No.: A20-16167
 Report Date: 18-Feb-21
 Date Submitted: 16-Dec-20
 Your Reference: 2020 October_November
 Check Assays

New Gold Inc.
 1800-Two Bentall Centre
 555 Burrard Street, Box 212
 Vancouver BC V7X 1M9
 Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

140 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2021-01-18 07:08:29
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2021-01-29 11:00:48

REPORT A20-16167

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

<original signed by>

Emmanuel Esemé, Ph.D.
 Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
 1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
 TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
 E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Report No.: A20-16167
Report Date: 18-Feb-21
Date Submitted: 16-Dec-20
Your Reference: 2020 October_November
Check Assays

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

140 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek Package	Acid Base Accounting	2021-01-05 21:30:22
4F-C, S	Infrared	2020-12-29 21:23:51

REPORT A20-16167

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

<original signed by>



Emmanuel Esemé, Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
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E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A20-16167

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1322020001	43.2	47.9	4.65	49.9	0.959	8.77	226	1.3	5.1	45	1000	2	12	34	1030	1.21	95	< 10	25	< 0.5	3	1.80	9
1229066248	19.2	12.2	-6.92	23.6	0.519	8.47	108	0.5	3.8	29	1060	< 1	8	16	765	1.96	27	< 10	47	< 0.5	< 2	0.71	8
1322020512	38.8	14.0	-24.9	44.1	0.317	8.54	1110	0.6	1.1	31	864	< 1	27	14	343	2.23	90	< 10	27	< 0.5	< 2	0.56	11
1229066233	50.8	59.0	8.15	58.8	1.00	8.65	202	2.5	0.9	28	1450	< 1	20	66	236	2.00	98	< 10	26	< 0.5	< 2	2.55	10
1229066160	63.3	66.0	2.70	72.0	0.917	8.78	219	2.6	2.2	35	1310	< 1	20	68	560	1.64	100	< 10	20	< 0.5	3	2.53	11
GC20-0388-001							146	1.6	< 0.5	14	661	< 1	11	28	132	0.68	63	< 10	20	< 0.5	< 2	2.03	9
1229066328	13.0	27.6	14.5	18.4	1.50	8.90	64	0.4	1.3	25	645	< 1	12	6	274	1.05	27	< 10	47	< 0.5	< 2	1.21	10
1322020431	75.6	16.1	-59.6	85.4	0.188	8.57	756	1.2	12.2	66	641	2	21	22	2890	1.59	71	< 10	17	< 0.5	< 2	0.86	9
GC20-0384-013							585	47.0	1.5	45	1460	1	12	127	464	0.73	41	< 10	33	< 0.5	2	1.87	8
GC20-0386-010							100	1.0	1.0	63	1040	< 1	116	23	296	2.96	37	< 10	30	< 0.5	< 2	4.16	32
GC20-0376-008							42	6.5	< 0.5	20	842	< 1	13	23	101	1.21	39	< 10	44	< 0.5	< 2	1.90	11
1229066152	64.5	41.6	-22.9	72.6	0.573	8.50	207	2.9	2.6	47	1410	< 1	19	125	651	1.63	94	< 10	27	< 0.5	< 2	1.61	11
GC20-0374-001							566	12.5	3.2	32	103	1	13	101	792	0.70	69	< 10	14	< 0.5	2	0.22	8
GC20-0378-004							65	0.3	< 0.5	11	98	< 1	11	7	172	0.82	2900	< 10	44	< 0.5	< 2	0.08	9
GC20-0375- 009FD							10	0.2	< 0.5	15	138	< 1	11	3	13	1.79	13	< 10	31	< 0.5	< 2	0.27	7
1323022001	16.9	11.6	-5.24	16.5	0.704	8.80	11	0.2	< 0.5	20	449	< 1	11	7	154	3.42	3	< 10	43	< 0.5	3	1.66	10
1229066262	37.3	39.8	2.52	41.3	0.963	8.66	347	1.3	1.3	31	671	< 1	8	15	288	1.39	354	< 10	30	< 0.5	< 2	1.69	9
1229066187	32.9	9.75	-23.2	37.7	0.259	8.38	358	0.9	2.8	21	1000	< 1	10	27	564	1.61	52	< 10	32	< 0.5	2	0.59	9
1322020183	19.9	2.25	-17.6	23.9	0.0940	8.36	586	0.3	4.3	39	412	< 1	16	7	1490	1.50	54	< 10	15	< 0.5	3	0.23	12
1229066033	277	4.00	-273	287	0.0140	7.39	2210	55.8	8.0	3530	395	< 1	21	725	1670	0.84	1010	< 10	< 10	< 0.5	46	0.22	11
1229066120	50.1	67.0	16.9	58.5	1.14	8.53	172	2.6	0.9	27	1670	< 1	21	66	218	1.60	114	< 10	26	< 0.5	< 2	2.55	11
F0016162							738	4.5	< 0.5	29	231	< 1	8	12	39	1.30	< 2	< 10	41	< 0.5	< 2	0.74	9
1323022065	2.60	12.7	10.1	5.82	2.18	8.68	9	< 0.2	< 0.5	114	562	< 1	62	< 2	126	4.62	< 2	< 10	10	< 0.5	< 2	2.84	25
1229066080	43.1	62.3	19.2	52.4	1.19	8.77	155	3.3	0.7	27	1420	< 1	20	62	168	1.91	87	< 10	30	< 0.5	3	2.51	11
1433094062	34.5	45.3	10.8	41.3	1.09	8.35	206	1.0	< 0.5	59	813	< 1	17	4	85	1.13	35	< 10	31	< 0.5	< 2	2.16	10
1229066186	19.2	10.5	-8.67	24.2	0.434	8.31	152	1.5	5.7	106	679	1	9	15	1080	2.33	27	< 10	46	< 0.5	< 2	0.91	10
1322020285	42.7	48.6	5.91	48.4	1.00	8.48	189	1.9	3.2	52	1110	< 1	15	59	664	2.59	51	< 10	31	< 0.5	3	2.52	9
1323019117	50.7	11.8	-38.9	55.4	0.213	8.44	54	0.8	1.3	99	452	< 1	14	7	309	2.55	20	< 10	21	< 0.5	6	1.18	10
1323019036	42.3	28.5	-13.8	47.5	0.600	8.54	54	0.5	< 0.5	25	659	< 1	12	4	106	1.88	10	< 10	27	< 0.5	4	1.51	10
1229066007	203	6.50	-197	214	0.0304	8.56	764	16.1	9.0	390	509	1	21	478	2110	1.07	532	< 10	< 10	< 0.5	7	0.26	11
GC20-0398-001							82	2.7	0.7	36	1410	< 1	12	37	204	0.73	114	< 10	17	< 0.5	< 2	2.94	9
GC20-0401-005							90	1.1	1.2	9	1250	< 1	10	42	330	0.92	78	< 10	27	< 0.5	< 2	2.62	6
GC20-0402-010							77	0.5	< 0.5	21	591	< 1	9	14	97	2.90	29	< 10	54	< 0.5	< 2	1.69	7
1323022095	13.4	9.00	-4.44	13.2	0.684	7.78	9	< 0.2	< 0.5	37	323	< 1	13	2	75	3.45	< 2	< 10	98	< 0.5	3	1.47	11
GC20-0399-005							89	2.7	0.7	29	1690	< 1	11	26	219	1.03	134	< 10	34	< 0.5	< 2	3.37	6
GC20-0400-001							179	1.8	1.8	23	476	1	13	179	421	0.68	77	< 10	19	< 0.5	< 2	1.15	9
GC20-0339-009							340	3.6	5.0	94	739	< 1	20	99	1170	1.33	222	< 10	15	< 0.5	< 2	0.40	10
1322020358	44.6	33.7	-10.9	49.3	0.683	8.78	147	0.7	2.3	35	981	< 1	18	103	535	2.90	42	< 10	31	< 0.5	2	2.29	10
1323019050	30.0	69.6	39.7	36.4	1.91	8.46	76	1.1	< 0.5	210	571	< 1	120	15	75	2.27	6	< 10	34	< 0.5	3	2.77	21
1322020357	42.7	37.5	-5.23	49.0	0.765	8.77	206	1.2	6.2	80	939	< 1	14	116	1260	2.73	34	< 10	26	< 0.5	< 2	2.38	9
1322020145	64.5	17.4	-47.1	71.1	0.244	8.66	116	1.3	3.2	48	598	< 1	16	35	768	2.71	35	< 10	22	< 0.5	3	1.70	10
1322020205	34.4	7.71	-26.6	42.0	0.184	8.43	1370	0.6	6.2	31	441	< 1	14	8	1300	1.94	38	< 10	24	< 0.5	3	0.53	11
1229067499	125	11.5	-113	154	0.0746	8.41	617	73.3	38.7	383	998	< 1	19	> 5000	8600	1.57	354	< 10	< 10	< 0.5	3	0.47	11
1322020224	55.6	15.7	-39.9	63.1	0.249	8.16	262	2.8	2.7	24	632	< 1	14	43	641	2.11	38	< 10	30	< 0.5	2	1.18	9
F001613							1030	2.9	< 0.5	31	251	< 1	9	17	43	1.27	< 2	< 10	38	< 0.5	< 2	0.79	10
1323019078	33.6	53.1	19.5	40.1	1.32	8.32	410	1.0	< 0.5	237	576	< 1	75	< 2	53	2.36	9	< 10	42	< 0.5	2	2.26	14
GC20-0367-001							11	0.2	< 0.5	8	188	< 1	12	4	82	1.51	8	< 10	72	< 0.5	< 2	0.11	6
GC20-0368-013							213	2.7	6.3	23	350	< 1	9	89	1680	0.86	30	< 10	44	< 0.5	< 2	0.69	4

Results

Activation Laboratories Ltd.

Report: A20-16167

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GC20-0370-009							444	2.4	8.7	46	350	< 1	10	69	2240	0.95	74	< 10	32	< 0.5	< 2	0.71	10
1323022075	43.9	10.2	-33.7	59.7	0.171	8.66	58	0.8	< 0.5	30	346	1	17	5	80	1.91	25	19	34	< 0.5	5	0.86	11
GC20-0370-006							289	1.7	4.3	38	252	2	13	48	1080	0.88	60	< 10	34	< 0.5	< 2	0.45	11
1323019095	57.4	34.8	-22.6	69.2	0.502	8.20	153	1.4	< 0.5	45	577	1	62	3	165	2.08	12	< 10	31	< 0.5	< 2	1.80	33
1230068051	3.95	33.3	29.4	10.1	3.30	8.39	< 5	0.3	< 0.5	12	488	< 1	16	5	111	1.35	8	< 10	81	< 0.5	< 2	1.47	9
GC20-0364-002							526	2.3	11.7	49	326	< 1	5	96	3110	0.51	67	< 10	38	< 0.5	< 2	1.02	2
GC20-0363-007							406	5.8	11.4	66	292	< 1	10	153	3050	0.63	76	< 10	37	< 0.5	< 2	0.68	5
GC20-0379-008							213	29.2	0.6	9	1160	1	13	143	250	0.78	33	< 10	46	< 0.5	2	1.60	10
1323018062	36.2	41.9	5.68	44.4	0.944	8.70	83	1.7	< 0.5	82	372	< 1	9	7	153	1.23	4	< 10	18	< 0.5	13	1.78	6
1323018177	69.8	13.8	-55.9	79.0	0.175	8.39	263	0.8	< 0.5	169	354	1	14	5	67	2.66	13	< 10	22	< 0.5	7	0.90	10
GC20-0382-004							101	10.2	1.2	10	1320	2	14	43	322	0.61	70	< 10	20	< 0.5	< 2	1.29	11
GC20-0381-001							222	7.0	1.3	15	847	< 1	11	35	319	0.82	62	< 10	24	< 0.5	< 2	1.71	9
GC20-0380-001							344	16.1	< 0.5	27	760	< 1	11	61	167	0.84	31	< 10	44	< 0.5	2	1.75	9
1230068127	3.12	30.2	27.1	3.06	9.85	9.31	8	< 0.2	< 0.5	19	417	< 1	18	2	112	1.99	4	< 10	97	< 0.5	< 2	1.57	11
GC20-0372-003							109	11.9	< 0.5	19	1020	1	11	35	83	0.75	35	< 10	31	< 0.5	3	1.71	10
1433094599	52.1	83.2	31.2	67.1	1.24	8.48	458	3.3	0.9	52	1540	< 1	12	8	221	3.30	14	< 10	31	< 0.5	< 2	3.20	29
12529066288	25.7	18.3	-7.40	37.4	0.490	8.51	109	0.9	2.6	49	1140	< 1	10	27	510	1.93	38	< 10	35	< 0.5	< 2	1.00	10
F001614							1910	4.2	< 0.5	24	206	16	7	22	38	1.31	< 2	< 10	40	< 0.5	< 2	0.80	6
GC20-0405-001							401	1.5	19.1	76	431	3	22	40	4330	1.48	59	< 10	32	< 0.5	< 2	0.74	11
1322020041	55.3	42.9	-12.4	69.2	0.620	8.77	1350	17.9	3.3	111	1150	1	15	371	890	0.91	36	< 10	28	< 0.5	< 2	1.62	10
1229067420	32.0	50.8	18.8	42.9	1.18	9.16	218	3.1	0.9	21	1450	< 1	22	62	268	3.13	77	< 10	44	< 0.5	2	2.46	11
1229067567	42.0	55.8	13.9	49.0	1.14	9.06	100	2.3	< 0.5	21	1500	1	20	48	151	2.19	36	< 10	39	< 0.5	< 2	2.43	10
GC20-0335-009FD							832	17.7	17.8	2170	299	2	13	39	3160	0.95	769	< 10	< 10	< 0.5	11	0.25	11
GC20-0395-003							312	1.0	1.3	41	978	< 1	25	7	338	2.47	254	10	37	< 0.5	< 2	2.14	16
GC20-0341-005							3410	4.3	12.0	179	1090	5	14	403	2720	1.71	87	< 10	25	< 0.5	3	0.38	11
1229067596	121	7.36	-113	128	0.0573	8.44	299	4.4	4.2	160	800	2	19	263	956	1.54	209	< 10	18	< 0.5	4	0.48	11
1229067491	43.8	78.8	35.0	52.4	1.51	8.90	131	5.2	1.2	36	2080	< 1	20	129	345	2.07	55	< 10	36	< 0.5	< 2	2.86	10
1322020084	61.3	71.1	9.73	68.6	1.04	8.87	572	9.8	2.3	39	1990	1	14	87	514	0.99	27	< 10	31	< 0.5	< 2	2.54	10
1322020166	63.4	33.5	-29.9	70.4	0.476	8.70	614	4.3	6.9	47	912	< 1	14	37	1550	1.36	43	< 10	27	< 0.5	3	1.54	10
1322020093	63.8	36.6	-27.2	69.5	0.527	8.66	508	4.2	2.6	51	1060	2	16	148	660	2.14	39	< 10	33	< 0.5	2	2.10	10
1229067634	213	6.48	-206	226	0.0287	7.64	608	15.6	11.4	376	521	< 1	22	657	2500	1.13	579	< 10	< 10	< 0.5	8	0.23	11
1322020108	56.0	52.8	-3.20	62.5	0.846	8.41	558	9.4	2.8	70	1680	2	16	90	627	1.09	43	< 10	30	< 0.5	3	1.90	10
GC20-0404-002							168	2.0	5.3	25	363	< 1	11	543	1250	0.92	57	< 10	32	< 0.5	3	0.85	10
1433094534	33.6	57.8	24.2	44.4	1.30	8.13	175	0.9	0.9	74	1780	< 1	10	8	234	3.40	20	< 10	28	< 0.5	< 2	3.37	23
1322002154	37.1	8.34	-28.7	39.8	0.209	8.64	51	0.4	< 0.5	29	484	< 1	15	16	80	2.83	12	< 10	43	< 0.5	3	1.36	11
1322002193	58.1	16.4	-41.7	62.5	0.262	8.41	287	1.8	1.0	18	583	1	16	25	264	2.43	21	< 10	32	< 0.5	2	1.65	9
1323023022	47.8	14.1	-33.7	52.7	0.267	8.56	749	1.3	< 0.5	267	486	1	19	32	92	2.01	15	12	31	< 0.5	7	0.88	10
1322002177	80.2	20.0	-60.2	84.2	0.238	8.31	69	2.8	< 0.5	58	545	< 1	12	16	154	1.57	15	< 10	15	< 0.5	11	1.02	13
1323023094	10.5	63.2	52.7	14.4	4.39	8.92	182	0.9	< 0.5	81	680	< 1	56	5	106	2.71	6	< 10	45	< 0.5	< 2	2.82	22
1433094207	110	98.4	-11.9	140	0.703	8.54	174	0.7	< 0.5	54	1710	< 1	4	< 2	140	3.64	26	< 10	24	< 0.5	3	3.85	32
1433094451	80.1	71.2	-8.87	99.2	0.718	8.27	129	1.0	< 0.5	61	1420	2	54	4	174	3.55	20	< 10	13	< 0.5	< 2	3.55	27
F002436							1030	3.0	< 0.5	32	261	< 1	9	18	44	1.38	< 2	< 10	42	< 0.5	< 2	0.86	11
1433094463	48.9	38.3	-10.7	55.4	0.690	8.55	381	1.5	< 0.5	31	986	< 1	16	5	147	1.60	17	< 10	22	< 0.5	< 2	1.93	9
1433094415	114	94.3	-19.9	143	0.661	8.54	218	1.0	< 0.5	31	1370	< 1	16	3	112	3.08	30	< 10	13	< 0.5	< 2	2.99	34
1322002112	25.1	19.4	-5.69	28.2	0.689	8.72	38	0.3	< 0.5	30	494	< 1	13	14	56	2.38	17	< 10	41	< 0.5	4	1.58	9
1322002025	28.6	12.2	-16.4	33.4	0.366	8.80	213	0.9	< 0.5	48	390	3	13	13	170	2.98	23	< 10	49	< 0.5	5	1.71	11
GC20-0428-001							539	2.1	9.9	59	747	< 1	15	88	2070	1.54	2400	< 10	41	< 0.5	2	1.43	10
1322002078	13.5	18.0	4.46	17.8	1.01	8.98	31	0.3	< 0.5	25	669	1	12	9	161	2.92	14	< 10	49	< 0.5	< 2	1.64	14

Results

Activation Laboratories Ltd.

Report: A20-16167

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1323023049	40.4	9.12	-31.3	43.5	0.210	8.69	149	0.6	< 0.5	72	220	1	14	21	137	1.82	18	< 10	35	< 0.5	5	0.77	9
1322002084	47.5	13.8	-33.7	50.8	0.272	8.37	91	0.9	< 0.5	27	202	2	13	11	95	2.25	19	< 10	36	< 0.5	2	1.11	11
GC20-0426-007							2100	3.9	21.1	51	297	< 1	17	105	4490	0.87	1430	< 10	19	< 0.5	< 2	0.86	12
1323023105	25.3	15.5	-9.81	29.1	0.533	8.72	92	0.4	< 0.5	84	515	2	14	3	94	2.89	9	< 10	51	< 0.5	2	1.26	11
GC20-0420-001							110	2.0	0.8	105	836	< 1	14	31	256	1.34	42	< 10	42	< 0.5	< 2	1.63	10
GC20-0418-001							17	0.6	< 0.5	39	169	< 1	12	6	38	2.06	29	< 10	20	< 0.5	2	0.40	8
1322002050	5.62	9.74	4.12	8.57	1.14	9.14	6	< 0.2	< 0.5	18	413	< 1	9	2	39	2.71	4	< 10	51	< 0.5	< 2	1.14	6
1322002001	60.4	13.2	-47.2	64.3	0.205	8.64	98	0.7	0.7	84	378	2	13	8	204	2.24	44	< 10	29	< 0.5	3	1.02	10
1323023148	57.7	12.1	-45.6	62.8	0.192	8.67	208	1.0	2.1	32	687	< 1	15	52	568	2.59	34	11	33	< 0.5	4	0.99	9
1323023120	32.5	16.9	-15.6	31.9	0.532	8.97	37	0.2	< 0.5	22	564	< 1	14	6	116	1.16	11	< 10	49	< 0.5	2	0.76	9
1323023209	43.8	17.5	-26.3	47.8	0.366	8.85	119	1.6	1.9	99	509	3	14	12	553	2.40	13	< 10	44	< 0.5	< 2	1.50	9
GC20-0429-004							978	0.8	7.8	79	571	< 1	15	12	1930	1.06	98	< 10	27	< 0.5	< 2	1.31	10
1323023157	34.3	12.8	-21.4	38.0	0.338	8.44	485	0.9	< 0.5	174	565	2	15	10	123	3.02	12	< 10	44	< 0.5	< 2	1.64	11
1322002093	44.2	25.8	-18.4	49.0	0.526	8.50	132	0.6	1.0	42	477	< 1	15	8	235	1.81	19	< 10	34	< 0.5	3	1.55	11
1323023222	70.2	14.5	-55.7	76.3	0.190	8.22	138	1.0	2.2	136	406	3	15	22	710	2.39	35	10	23	< 0.5	5	1.22	11
1322002191	59.8	36.2	-23.6	65.5	0.552	8.71	268	1.5	1.2	16	808	< 1	14	13	275	2.01	22	< 10	27	< 0.5	2	1.94	9
F002437							963	1.6	< 0.5	50	224	11	10	19	40	1.36	< 2	< 10	46	< 0.5	< 2	0.88	9
1322005278	33.2	12.7	-20.5	36.8	0.346	8.66	37	0.6	< 0.5	130	286	7	18	< 2	113	3.51	7	< 10	36	< 0.5	2	1.69	8
1323024106	27.5	6.47	-21.0	27.0	0.240	8.58	169	0.4	< 0.5	104	278	1	16	< 2	30	2.51	3	< 10	43	< 0.5	3	0.46	8
1322003076	43.6	38.1	-5.54	47.2	0.808	8.63	154	1.0	0.8	32	721	< 1	24	12	228	3.09	21	< 10	38	< 0.5	4	2.44	10
1322005280	41.2	12.6	-28.6	46.5	0.271	8.97	48	1.1	< 0.5	240	282	14	12	4	84	3.05	8	< 10	35	< 0.5	2	1.61	10
1323024100	17.8	14.1	-3.67	17.5	0.810	8.91	35	0.2	< 0.5	18	445	1	13	4	69	2.54	7	< 10	46	< 0.5	2	0.87	9
1322004117	72.7	3.11	-69.6	77.5	0.0402	8.28	318	0.7	< 0.5	139	342	2	16	5	54	3.29	8	< 10	24	< 0.5	5	1.18	10
1322004056	50.5	10.9	-39.6	54.5	0.201	8.52	268	0.8	< 0.5	165	479	3	20	6	65	2.31	10	< 10	29	< 0.5	2	1.26	10
1323024102	21.6	19.9	-1.69	25.7	0.772	8.81	328	0.6	< 0.5	46	386	1	20	3	72	2.89	10	< 10	68	< 0.5	4	0.81	10
1322003059	38.3	7.21	-31.1	41.3	0.174	8.73	49	0.3	0.6	24	359	1	16	< 2	234	2.57	3	< 10	35	< 0.5	3	0.66	9
1322004116	64.3	8.75	-55.5	68.9	0.127	8.58	363	0.7	< 0.5	107	408	1	14	4	67	3.32	6	< 10	27	< 0.5	3	1.37	9
GC20-0414-001							600	7.1	6.0	371	716	1	20	390	1260	1.72	311	< 10	< 10	< 0.5	4	0.73	10
GC20-0939-023							< 5	< 0.2	< 0.5	107	451	< 1	49	< 2	38	5.84	< 2	< 10	13	< 0.5	2	3.83	19
1322005192	5.31	5.72	0.412	5.21	1.10	8.64	< 5	0.2	< 0.5	159	409	1	55	< 2	43	5.70	< 2	< 10	13	< 0.5	< 2	3.75	20
1322004031	70.4	20.5	-49.9	76.6	0.267	8.46	59	0.6	2.5	38	479	< 1	11	7	542	1.68	10	< 10	22	< 0.5	3	1.14	9
1322005317	54.7	15.6	-39.1	60.0	0.260	8.45	64	0.3	< 0.5	30	274	1	14	2	81	3.02	11	< 10	33	< 0.5	2	1.54	10
1322005162	48.1	6.12	-42.0	52.1	0.118	8.68	30	0.3	< 0.5	58	179	3	16	< 2	36	3.60	9	< 10	31	< 0.5	6	1.40	8
1322004058	44.5	50.1	5.62	48.1	1.04	8.38	310	0.7	< 0.5	160	431	3	17	5	68	2.30	11	< 10	33	< 0.5	2	1.45	11
1322005105	58.6	10.8	-47.9	63.1	0.170	8.53	41	< 0.2	< 0.5	11	194	1	15	6	33	3.07	3	< 10	30	< 0.5	5	1.49	10
GC20-04187-002							240	1.2	8.4	16	220	1	16	34	1990	1.33	61	< 10	< 10	0.5	2	0.41	10
GC20-0416-009							712	12.2	1.0	39	441	< 1	13	46	310	0.74	115	< 10	30	< 0.5	< 2	0.78	7
1322005075	34.4	9.86	-24.5	37.1	0.266	8.69	16	0.2	< 0.5	86	180	2	20	< 2	29	1.78	3	< 10	34	< 0.5	< 2	0.84	11
1322004025	59.9	6.11	-53.8	64.0	0.0954	8.29	1170	3.7	< 0.5	374	367	3	14	6	50	2.28	10	< 10	26	< 0.5	5	0.75	11
GC20-0934-021							620	2.0	< 0.5	482	431	3	12	8	53	2.02	16	< 10	30	< 0.5	7	1.14	11
GC20-1011-017							357	0.3	< 0.5	64	581	< 1	16	4	61	2.57	7	< 10	51	< 0.5	< 2	1.45	8
GC20-0307-016							181	3.5	< 0.5	15	1740	< 1	20	23	145	2.11	70	< 10	28	< 0.5	3	2.66	10
F002438							745	4.5	< 0.5	28	230	< 1	8	11	38	1.35	< 2	< 10	42	< 0.5	< 2	0.76	10
1322005295	7.19	8.85	1.66	7.04	1.26	8.91	24	0.2	< 0.5	143	460	< 1	51	< 2	56	5.28	< 2	< 10	18	< 0.5	< 2	3.41	22

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1322020001	143	2.13	< 10	< 1	0.33	11	0.68	0.027	0.050	1.72	3	< 1	26	< 0.01	1	< 2	< 10	7	< 10	2	7	0.68	1.63
1229066248	91	2.00	< 10	< 1	0.35	17	0.85	0.057	0.046	0.81	< 2	< 1	29	0.01	2	< 2	< 10	11	< 10	2	4	0.21	0.77
1322020512	189	3.47	< 10	< 1	0.29	11	1.39	0.025	0.038	1.49	3	1	20	0.01	< 1	< 2	< 10	12	< 10	2	12	0.28	1.44
1229066233	205	2.42	< 10	< 1	0.30	18	1.15	0.146	0.052	2.02	< 2	< 1	44	< 0.01	< 1	< 2	< 10	12	< 10	3	4	0.78	1.92
1229066160	151	2.51	< 10	< 1	0.37	12	0.98	0.058	0.055	2.37	3	< 1	27	< 0.01	1	< 2	< 10	10	< 10	3	4	0.87	2.35
GC20-0388-001	182	1.98	< 10	< 1	0.32	13	0.15	0.016	0.043	2.17	< 2	< 1	24	< 0.01	2	< 2	< 10	4	< 10	2	9		
1229066328	238	1.90	< 10	< 1	0.32	17	0.46	0.053	0.049	0.59	< 2	< 1	23	0.06	1	< 2	< 10	14	10	2	4	0.44	0.60
1322020431	240	3.16	< 10	< 1	0.39	15	0.78	0.025	0.041	2.81	2	< 1	29	0.05	< 1	< 2	< 10	10	< 10	2	21	0.25	2.79
GC20-0384-013	231	1.44	< 10	< 1	0.37	14	0.23	0.020	0.037	1.37	3	< 1	91	< 0.01	< 1	< 2	< 10	4	< 10	2	7		
GC20-0386-010	442	4.46	< 10	2	1.25	34	2.73	0.030	0.158	1.43	2	8	294	0.13	< 1	< 2	< 10	81	< 10	5	8		
GC20-0376-008	139	1.50	< 10	< 1	0.56	19	0.21	0.027	0.052	1.23	< 2	< 1	77	0.02	< 1	< 2	< 10	7	< 10	2	5		
1229066152	94	2.45	< 10	< 1	0.36	18	1.08	0.050	0.058	2.45	< 2	< 1	18	< 0.01	< 1	< 2	< 10	10	< 10	2	12	0.57	2.37
GC20-0374-001	269	1.87	< 10	< 1	0.33	12	0.07	0.022	0.035	1.81	3	< 1	12	< 0.01	< 1	< 2	< 10	6	< 10	1	10		
GC20-0378-004	147	1.00	< 10	< 1	0.31	< 10	0.11	0.023	0.031	0.57	< 2	< 1	10	< 0.01	< 1	< 2	< 10	4	< 10	< 1	6		
GC20-0375-009FD	152	0.98	< 10	< 1	0.11	< 10	0.24	0.053	0.034	0.22	< 2	< 1	36	< 0.01	< 1	< 2	< 10	9	< 10	< 1	3		
1323022001	158	2.27	< 10	< 1	0.14	16	0.90	0.184	0.050	0.55	< 2	1	244	0.03	2	< 2	< 10	16	< 10	2	2	0.17	0.54
1229066262	102	1.91	< 10	< 1	0.38	16	0.45	0.050	0.044	1.42	4	< 1	31	< 0.01	< 1	< 2	< 10	7	< 10	2	7	0.52	1.35
1229066187	139	2.18	< 10	< 1	0.33	17	0.68	0.030	0.042	1.27	< 2	< 1	12	0.01	1	< 2	< 10	11	< 10	2	5	0.22	1.23
1322020183	202	1.81	< 10	< 1	0.19	< 10	0.25	0.030	0.044	0.83	< 2	< 1	21	< 0.01	2	< 2	< 10	9	< 10	1	2	0.10	0.78
1229066033	299	7.55	< 10	3	0.25	11	0.38	0.029	0.041	9.66	9	< 1	6	< 0.01	1	< 2	< 10	7	< 10	1	12	0.12	9.36
1229066120	171	2.25	< 10	< 1	0.34	18	1.05	0.045	0.054	2.03	< 2	< 1	21	< 0.01	< 1	< 2	< 10	9	< 10	3	6	0.95	1.91
F0016162	12	1.96	< 10	< 1	0.25	13	0.40	0.234	0.037	0.03	< 2	2	33	0.31	4	< 2	< 10	49	< 10	15	8		
1323022065	287	4.51	< 10	< 1	0.04	< 10	1.93	0.353	0.021	0.13	< 2	4	90	0.21	1	< 2	< 10	115	< 10	3	3	0.24	0.19
1229066080	136	2.25	< 10	< 1	0.36	21	1.21	0.079	0.057	1.67	< 2	1	25	< 0.01	2	< 2	< 10	13	< 10	3	3	0.80	1.71
1433094062	161	2.47	< 10	< 1	0.20	12	0.93	0.061	0.045	1.37	3	1	27	0.01	2	< 2	< 10	16	< 10	3	6	1.00	1.35
1229066186	110	2.08	< 10	< 1	0.44	16	0.83	0.153	0.045	0.80	< 2	1	63	0.04	< 1	< 2	< 10	15	< 10	2	3	0.22	0.79
1322020285	186	2.21	< 10	< 1	0.29	13	1.16	0.095	0.041	1.61	< 2	< 1	65	< 0.01	1	< 2	< 10	10	< 10	2	6	0.63	1.58
1323019117	172	2.58	< 10	< 1	0.34	12	1.07	0.163	0.039	1.89	< 2	1	61	0.04	1	< 2	< 10	13	< 10	3	10	0.18	1.81
1323019036	203	2.07	< 10	< 1	0.28	16	0.89	0.125	0.051	1.61	< 2	< 1	46	0.02	2	< 2	< 10	12	< 10	2	8	0.36	1.55
1229066007	211	5.81	< 10	2	0.27	16	0.61	0.032	0.050	7.58	10	< 1	7	< 0.01	< 1	< 2	< 10	8	< 10	2	12	0.10	6.98
GC20-0398-001	163	2.70	< 10	< 1	0.23	15	0.28	0.022	0.043	3.12	< 2	< 1	27	< 0.01	< 1	< 2	< 10	4	< 10	1	9		
GC20-0401-005	133	1.19	< 10	< 1	0.32	16	0.28	0.030	0.045	1.13	< 2	< 1	27	< 0.01	< 1	< 2	< 10	4	< 10	1	4		
GC20-0402-010	140	1.83	< 10	< 1	0.39	15	0.89	0.126	0.040	0.43	< 2	1	55	0.06	< 1	< 2	< 10	17	< 10	2	3		
1323022095	117	2.19	< 10	< 1	0.38	15	0.89	0.217	0.045	0.41	< 2	2	121	0.03	< 1	< 2	< 10	30	< 10	3	2	0.14	0.43
GC20-0399-005	169	1.11	< 10	< 1	0.40	16	0.26	0.031	0.045	0.93	< 2	< 1	35	< 0.01	< 1	< 2	< 10	5	< 10	2	4		
GC20-0400-001	166	1.95	< 10	< 1	0.25	16	0.17	0.025	0.046	2.18	< 2	< 1	21	< 0.01	1	< 2	< 10	4	< 10	1	8		
GC20-0399-009	127	3.98	< 10	2	0.24	16	1.02	0.025	0.051	4.25	3	< 1	6	< 0.01	1	< 2	< 10	9	< 10	1	9		
1322020358	281	2.37	< 10	< 1	0.31	13	1.02	0.143	0.042	1.68	3	< 1	64	< 0.01	< 1	< 2	< 10	12	< 10	2	7	0.53	1.61
1323019050	298	2.66	< 10	< 1	0.31	15	1.86	0.085	0.074	1.16	< 2	5	115	< 0.01	2	< 2	< 10	41	< 10	4	2	1.17	1.19
1322020357	150	2.35	< 10	< 1	0.25	13	1.14	0.090	0.043	1.73	< 2	< 1	50	< 0.01	< 1	< 2	< 10	11	< 10	2	6	0.54	1.60
1322020145	201	2.52	< 10	< 1	0.29	15	0.87	0.222	0.046	2.40	< 2	< 1	97	0.05	< 1	< 2	< 10	9	< 10	2	9	0.30	2.32
1322020205	204	2.13	< 10	< 1	0.21	13	0.43	0.050	0.047	1.31	< 2	< 1	51	< 0.01	2	< 2	< 10	10	< 10	2	9	0.16	1.37
1229067499	175	4.11	< 10	3	0.32	15	1.11	0.030	0.063	5.07	12	< 1	9	< 0.01	5	< 2	< 10	10	< 10	2	11	0.19	5.03
1322020224	161	2.15	< 10	1	0.38	15	0.72	0.090	0.048	2.17	< 2	< 1	42	0.03	3	< 2	< 10	8	< 10	2	13	0.24	2.06
F001613	14	2.06	< 10	< 1	0.19	14	0.37	0.216	0.038	0.03	< 2	2	35	0.31	3	< 2	< 10	53	< 10	15	15		
1323019078	276	2.91	< 10	< 1	0.18	17	1.74	0.097	0.062	1.31	< 2	3	76	0.02	1	< 2	< 10	27	< 10	3	6	0.71	1.31
GC20-0367-001	210	0.97	< 10	< 1	0.46	< 10	0.12	0.038	0.034	0.20	< 2	< 1	20	< 0.01	< 1	< 2	< 10	7	< 10	< 1	4		
GC20-0368-013	121	0.91	< 10	< 1	0.28	19	0.14	0.043	0.057	0.99	< 2	< 1	29	< 0.01	< 1	< 2	< 10	4	< 10	2	4		
GC20-0370-009	121	1.95	< 10	< 1	0.19	14	0.27	0.035	0.041	1.99	< 2	< 1	25	< 0.01	< 1	< 2	< 10	5	< 10	1	8		
1323022075	185	2.45	< 10	< 1	0.23	15	0.84	0.072	0.046	2.10	< 2	< 1	74	0.01	1	< 2	< 10	11	< 10	2	15	0.22	1.95

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GC20-0370-006	191	1.81	<10	<1	0.32	15	0.21	0.028	0.048	1.76	<2	<1	17	<0.01	<1	<2	<10	6	<10	1	9		
1323019095	380	3.58	<10	2	0.32	13	1.13	0.118	0.079	2.28	<2	5	57	0.09	3	<2	<10	70	<10	6	13	0.45	2.26
1230068051	282	1.82	<10	<1	0.43	15	0.66	0.086	0.043	0.32	<2	2	27	0.09	1	<2	<10	22	<10	3	7	0.43	0.33
GC20-0364-002	113	0.89	<10	<1	0.20	26	0.15	0.020	0.049	1.05	<2	<1	16	<0.01	2	<2	<10	3	<10	1	7		
GC20-0363-007	194	1.32	<10	<1	0.27	17	0.11	0.025	0.037	1.50	3	<1	13	<0.01	<1	<2	<10	4	<10	<1	8		
GC20-0379-008	221	1.47	<10	<1	0.43	16	0.18	0.018	0.040	1.57	2	<1	135	<0.01	2	<2	<10	5	<10	2	13		
1323018062	191	2.16	<10	<1	0.35	36	0.48	0.049	0.063	1.50	<2	<1	74	<0.01	2	<2	<10	7	<10	4	5	0.57	1.45
1323018177	259	3.77	<10	2	0.32	17	1.38	0.137	0.044	2.55	4	1	70	<0.01	<1	<2	<10	13	<10	3	20	0.24	2.58
GC20-0382-004	201	2.92	<10	<1	0.33	12	0.32	0.014	0.040	3.41	3	<1	47	<0.01	2	<2	<10	4	<10	2	11		
GC20-0381-001	194	2.21	<10	2	0.30	14	0.37	0.016	0.045	2.20	3	<1	22	<0.01	<1	<2	<10	5	<10	1	11		
GC20-0380-001	150	1.50	<10	<1	0.43	14	0.10	0.022	0.042	1.42	5	<1	58	<0.01	1	<2	<10	5	10	2	9		
1230068127	299	2.29	<10	<1	0.40	20	0.87	0.120	0.053	0.09	<2	2	92	0.11	2	<2	<10	33	<10	4	6	0.42	0.10
GC20-0372-003	114	1.54	<10	<1	0.28	17	0.36	0.017	0.047	1.44	<2	<1	39	<0.01	1	<2	<10	4	<10	2	7		
1433094599	105	8.94	10	1	0.28	<10	1.87	0.159	0.074	2.03	4	16	61	0.15	<1	<2	<10	206	<10	9	7	1.40	2.19
12529066288	83	2.27	<10	<1	0.32	16	1.07	0.036	0.077	1.23	<2	<1	22	0.02	1	<2	<10	13	<10	2	2	0.28	1.22
F001614	13	1.47	<10	<1	0.21	19	0.35	0.208	0.042	0.04	<2	2	37	0.21	2	<2	<10	39	<10	15	6		
GC20-0405-001	278	2.21	<10	<1	0.40	16	0.49	0.087	0.051	2.07	<2	1	40	0.02	3	<2	<10	14	<10	2	16		
1322020041	210	2.08	<10	<1	0.28	15	0.42	0.038	0.046	2.29	5	<1	35	<0.01	8	<2	<10	5	<10	2	15	0.69	2.26
1229067420	97	2.36	<10	<1	0.64	18	1.34	0.242	0.051	1.47	<2	1	57	0.04	2	<2	<10	19	<10	3	6	0.58	1.40
1229067567	280	2.19	<10	<1	0.41	17	1.15	0.177	0.051	1.58	<2	1	80	0.01	<1	<2	<10	15	<10	2	4	0.81	1.60
GC20-0335-009FD	126	5.82	<10	3	0.25	15	0.47	0.024	0.046	7.45	19	<1	8	<0.01	<1	<2	<10	7	<10	2	16		
GC20-0395-003	131	3.00	<10	<1	0.35	<10	0.63	0.213	0.035	1.68	<2	4	83	0.07	2	<2	<10	47	<10	3	16		
GC20-0341-005	125	3.08	<10	<1	0.28	19	1.22	0.019	0.069	2.77	3	<1	8	<0.01	1	<2	<10	12	<10	2	13		
1229067596	160	4.39	<10	1	0.23	14	0.96	0.050	0.059	4.54	3	<1	11	0.01	<1	<2	<10	16	<10	2	12	0.14	4.19
1229067491	136	2.22	<10	<1	0.46	17	1.35	0.094	0.048	1.75	<2	1	36	<0.01	<1	<2	<10	12	<10	3	8	1.10	1.71
1322020084	181	2.09	<10	<1	0.31	12	0.54	0.037	0.044	2.36	2	<1	48	<0.01	7	<2	<10	5	<10	2	15	0.95	2.24
1322020166	135	2.18	<10	<1	0.29	15	0.67	0.055	0.045	2.47	<2	<1	33	<0.01	3	<2	<10	5	<10	2	10	0.51	2.30
1322020093	224	2.34	<10	<1	0.25	17	0.72	0.149	0.048	2.38	3	<1	121	<0.01	2	<2	<10	8	<10	3	11	0.50	2.27
1229067634	278	6.07	<10	2	0.30	<10	0.59	0.029	0.047	7.67	9	<1	7	<0.01	<1	<2	<10	9	<10	1	11	0.13	7.37
1322020108	261	2.01	<10	<1	0.33	13	0.58	0.044	0.045	2.18	5	<1	50	<0.01	6	<2	<10	6	<10	2	12	0.81	2.04
GC20-0404-002	87	1.54	<10	<1	0.37	15	0.14	0.031	0.047	1.74	2	<1	23	<0.01	<1	<2	<10	6	<10	1	10		
1433094534	107	8.27	10	<1	0.28	<10	1.72	0.158	0.102	1.33	3	11	60	0.15	<1	<2	<10	90	<10	13	8	1.42	1.45
1322002154	311	2.12	<10	<1	0.21	17	0.62	0.246	0.053	1.30	<2	1	169	<0.01	<1	<2	<10	12	<10	3	5	0.22	1.30
1322002193	254	2.18	<10	<1	0.29	15	0.83	0.116	0.045	2.05	<2	<1	54	0.03	3	<2	<10	8	<10	2	8	0.35	2.04
1323023022	391	3.10	<10	<1	0.24	13	0.77	0.116	0.039	1.76	<2	1	49	0.02	<1	<2	<10	14	<10	2	10	0.33	1.72
1322002177	84	2.52	<10	<1	0.17	13	0.47	0.065	0.044	2.83	<2	<1	46	<0.01	6	<2	<10	8	<10	2	14	0.32	2.75
1323023094	240	4.16	<10	<1	1.24	60	2.22	0.087	0.193	0.42	<2	8	228	0.18	1	<2	<10	93	<10	7	6	0.79	0.47
1433094207	73	10.9	10	2	0.15	<10	1.91	0.177	0.112	4.44	3	13	93	0.15	<1	<2	<10	109	<10	16	12	1.65	4.57
1433094451	115	7.70	<10	<1	0.47	<10	2.20	0.176	0.061	3.15	3	10	88	0.14	<1	<2	<10	151	<10	8	7	1.51	3.24
F002436	15	2.16	<10	<1	0.20	15	0.39	0.236	0.038	0.03	<2	2	38	0.33	4	<2	<10	55	<10	15	8		
1433094463	222	2.88	<10	<1	0.32	14	0.97	0.087	0.043	1.83	2	<1	32	<0.01	2	<2	<10	11	<10	3	11	0.84	1.81
1433094415	108	10.9	10	<1	0.17	<10	1.96	0.077	0.105	4.33	3	14	66	0.12	<1	<2	<10	140	11	13	13	1.28	4.66
1322002112	287	1.89	<10	<1	0.18	16	0.47	0.267	0.053	0.91	<2	<1	198	<0.01	<1	<2	<10	11	<10	2	4	0.31	0.92
1322002025	246	2.20	<10	<1	0.26	15	0.56	0.210	0.050	1.10	<2	<1	178	0.01	2	<2	<10	11	<10	2	3	0.15	1.09
GC20-0428-001	221	1.82	<10	<1	0.63	19	0.33	0.030	0.054	1.29	4	1	24	<0.01	<1	<2	<10	10	<10	2	6		
1322002078	140	2.27	<10	<1	0.21	16	0.47	0.239	0.046	0.56	<2	<1	221	0.06	<1	<2	<10	13	<10	2	3	0.20	0.58
1323023049	229	1.66	<10	<1	0.29	14	0.52	0.067	0.046	1.52	<2	<1	75	<0.01	<1	<2	<10	8	<10	2	4	0.14	1.42
1322002084	153	1.80	<10	<1	0.21	15	0.22	0.250	0.045	1.65	<2	<1	194	<0.01	1	<2	<10	8	<10	2	7	0.06	1.66
GC20-0426-007	184	3.26	<10	3	0.36	14	0.15	0.026	0.042	4.13	3	<1	16	<0.01	<1	<2	<10	6	<10	2	14		
1323023105	177	3.30	<10	2	0.26	17	1.17	0.141	0.045	0.95	<2	1	81	0.06	<1	<2	<10	18	<10	3	7	0.32	0.95

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GC20-0420-001	204	1.83	< 10	< 1	0.32	18	0.65	0.026	0.053	0.83	2	< 1	35	< 0.01	< 1	< 2	< 10	10	< 10	2	4		
GC20-0418-001	199	1.23	< 10	< 1	0.09	< 10	0.36	0.044	0.036	0.32	< 2	< 1	33	< 0.01	< 1	< 2	< 10	10	< 10	< 1	3		
1322002050	205	1.39	< 10	< 1	0.20	16	0.24	0.158	0.045	0.28	< 2	< 1	153	0.06	< 1	< 2	< 10	10	< 10	2	2	0.28	0.28
1322002001	210	2.43	< 10	< 1	0.26	19	0.49	0.118	0.051	2.10	< 2	< 1	104	< 0.01	1	< 2	< 10	10	< 10	3	7	0.27	2.10
1323023148	220	2.25	< 10	< 1	0.30	15	1.33	0.090	0.042	2.02	3	< 1	56	< 0.01	< 1	< 2	< 10	10	< 10	2	8	0.21	2.05
1323023120	301	1.83	< 10	< 1	0.22	12	0.67	0.062	0.041	1.04	< 2	1	29	0.01	< 1	< 2	< 10	14	< 10	2	6	0.25	1.04
1323023209	270	2.25	< 10	< 1	0.22	14	0.75	0.262	0.042	1.54	< 2	1	184	0.01	1	< 2	< 10	17	< 10	2	7	0.25	1.56
GC20-0429-004	209	2.05	< 10	< 1	0.43	12	0.23	0.022	0.046	1.94	< 2	< 1	18	< 0.01	< 1	< 2	< 10	7	< 10	2	10		
1323023157	281	2.50	< 10	< 1	0.28	13	0.66	0.134	0.040	1.21	< 2	< 1	97	0.04	< 1	< 2	< 10	12	< 10	2	4	0.19	1.24
1322002093	191	1.99	< 10	< 1	0.24	15	0.69	0.121	0.046	1.68	< 2	< 1	65	< 0.01	4	< 2	< 10	8	< 10	2	5	0.36	1.60
1323023222	296	2.65	< 10	< 1	0.28	13	0.89	0.084	0.042	2.53	< 2	< 1	74	< 0.01	< 1	< 2	< 10	10	< 10	2	9	0.24	2.49
1322002191	171	2.18	< 10	< 1	0.28	14	0.84	0.059	0.043	1.99	< 2	< 1	34	0.01	< 1	< 2	< 10	9	< 10	2	4	0.45	2.14
F002437	14	1.77	< 10	< 1	0.24	15	0.42	0.206	0.047	0.05	< 2	2	33	0.24	3	< 2	< 10	56	< 10	17	6		
1322005278	427	2.27	< 10	< 1	0.37	12	1.15	0.316	0.037	1.16	3	< 1	179	0.03	1	< 2	< 10	14	< 10	2	8	0.21	1.20
1323024106	360	3.10	< 10	< 1	0.29	13	1.07	0.065	0.038	0.85	2	1	50	< 0.01	< 1	< 2	< 10	15	< 10	2	8	0.10	0.88
1322003076	276	2.41	< 10	< 1	0.29	16	1.21	0.319	0.050	1.55	< 2	2	126	0.03	4	< 2	< 10	22	< 10	3	6	0.49	1.54
1322005280	268	2.13	< 10	< 1	0.36	12	0.93	0.239	0.037	1.49	< 2	< 1	143	0.02	1	< 2	< 10	13	< 10	2	9	0.18	1.52
1323024100	167	2.97	< 10	< 1	0.23	18	1.62	0.059	0.047	0.54	< 2	1	29	0.02	< 1	< 2	< 10	15	< 10	2	3	0.23	0.57
1322004117	280	3.01	< 10	2	0.21	14	0.98	0.189	0.043	2.54	2	1	146	< 0.01	< 1	< 2	< 10	13	< 10	2	8	0.16	2.53
1322004056	489	2.90	< 10	< 1	0.24	13	0.69	0.215	0.040	1.82	2	1	94	0.04	2	< 2	< 10	16	< 10	3	10	0.22	1.78
1323024102	243	3.81	< 10	2	0.39	16	1.75	0.042	0.059	0.86	< 2	2	24	< 0.01	< 1	< 2	< 10	23	< 10	2	5	0.24	0.84
1322003059	357	1.99	< 10	< 1	0.17	14	1.12	0.128	0.048	1.33	< 2	1	66	< 0.01	< 1	< 2	< 10	14	< 10	2	3	0.18	1.35
1322004116	259	2.65	< 10	< 1	0.13	13	1.08	0.183	0.042	2.23	< 2	< 1	138	< 0.01	< 1	< 2	< 10	12	< 10	2	5	0.25	2.25
GC20-0414-001	248	4.95	< 10	2	0.44	18	0.78	0.038	0.052	5.38	5	1	19	< 0.01	< 1	< 2	< 10	13	< 10	2	18		
GC20-0939-023	252	4.31	< 10	1	0.05	< 10	1.55	0.703	0.019	0.06	3	5	65	0.16	< 1	< 2	< 10	123	< 10	3	2		
1322005192	420	4.50	< 10	< 1	0.04	< 10	1.41	0.651	0.021	0.15	2	4	63	0.17	< 1	< 2	< 10	126	< 10	3	2	0.22	0.17
1322004031	128	2.18	< 10	< 1	0.12	17	0.87	0.129	0.049	2.42	< 2	< 1	55	< 0.01	2	< 2	< 10	9	< 10	3	5	0.28	2.50
1322005317	230	2.62	< 10	< 1	0.24	15	1.27	0.227	0.041	2.03	< 2	< 1	104	< 0.01	1	< 2	< 10	12	< 10	2	7	0.21	1.96
1322005162	369	2.26	< 10	< 1	0.20	12	0.91	0.255	0.039	1.70	3	< 1	146	< 0.01	< 1	< 2	< 10	13	< 10	2	3	0.13	1.70
1322004058	392	2.58	< 10	< 1	0.20	13	0.67	0.240	0.040	1.60	< 2	1	133	0.02	2	< 2	< 10	14	27	3	6	0.29	1.57
1322005105	311	2.50	< 10	< 1	0.21	13	0.95	0.260	0.040	2.11	< 2	< 1	130	< 0.01	< 1	< 2	< 10	9	< 10	2	8	0.16	2.06
GC20-04187-002	254	2.24	< 10	< 1	0.33	12	0.13	0.048	0.037	2.53	2	< 1	44	< 0.01	< 1	< 2	< 10	7	< 10	1	10		
GC20-0416-009	284	1.08	< 10	< 1	0.33	18	0.12	0.022	0.042	0.98	3	< 1	15	< 0.01	1	< 2	< 10	4	< 10	1	6		
1322005075	424	1.88	< 10	< 1	0.22	11	0.86	0.142	0.037	1.22	< 2	1	57	0.02	2	< 2	< 10	13	< 10	3	4	0.15	1.21
1322004025	279	3.17	< 10	< 1	0.21	13	0.73	0.183	0.042	2.09	< 2	1	83	< 0.01	< 1	< 2	< 10	15	< 10	3	16	0.11	2.09
GC20-0934-021	91	2.87	< 10	< 1	0.20	14	0.87	0.156	0.044	2.29	< 2	1	72	0.02	< 1	< 2	< 10	16	< 10	3	17		
GC20-1011-017	314	2.39	< 10	< 1	0.24	15	0.96	0.202	0.037	0.88	< 2	1	85	0.04	1	< 2	< 10	17	< 10	2	8		
GC20-0307-016	144	2.37	< 10	< 1	0.59	16	1.25	0.078	0.047	2.20	2	1	28	0.04	< 1	< 2	< 10	14	< 10	3	16		
F002438	12	1.93	< 10	< 1	0.25	13	0.40	0.242	0.035	0.03	< 2	2	34	0.30	4	< 2	< 10	48	< 10	15	6		
1322005295	230	4.66	< 10	1	0.06	< 10	1.69	0.524	0.022	0.19	< 2	5	64	0.20	2	< 2	< 10	129	< 10	3	2	0.17	0.23

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS311-4 Cert																							
NBM-1 (slight fzz) Meas		43.1				8.03																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas						7.55																	
NBM-1 (slight fzz) Cert						8.53																	
NBM-1 (slight fzz) Meas						8.03																	
NBM-1 (slight fzz) Cert						8.53																	
OREAS 922 (AQUA REGIA) Meas								1.3	< 0.5	2280	724	< 1	35	60	245	2.95	5		80	0.7	8	0.39	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2210	727	< 1	36	59	251	2.89	5		78	0.7	8	0.40	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2300	738	< 1	37	62	253	2.88	7		69	0.6	9	0.38	20
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								1.9	< 0.5	4400	821	< 1	34	82	309	2.90	7		60	0.6	24	0.39	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								3.6	< 0.5	4400	817	< 1	33	80	312	2.89	9		60	0.6	23	0.39	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.6	< 0.5	4640	855	< 1	34	83	330	2.97	8		57	0.6	25	0.39	23
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 96 (Aqua Regia) Meas								10.8		> 10000				85	388						63		47
Oreas 96 (Aqua Regia) Cert								11.50		39100. 00				100	448						27.9		49.2
Oreas 96 (Aqua Regia) Meas								10.9		> 10000				85	395						69		45
Oreas 96 (Aqua Regia) Cert								11.50		39100. 00				100	448						27.9		49.2
Oreas 96 (Aqua								11.5		> 10000				86	401						69		49

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Regia) Meas																							
Oreas 96 (Aqua Regia) Cert								11.50		39100. 00				100	448						27.9		49.2
Oreas 621 (Aqua Regia) Meas								67.0	290	3710	521	13	25	> 5000	> 10000	1.86	76			0.5	5	1.63	31
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								65.2	286	3560	515	12	25	> 5000	> 10000	1.76	73			0.5	8	1.62	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								66.8	293	3560	526	11	26	> 5000	> 10000	1.79	75			0.5	11	1.67	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 238 (Fire Assay) Meas								3180															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3080															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3000															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3010															
OREAS 238 (Fire Assay) Cert								3030															
OREAS 238 (Fire Assay) Meas								3020															
OREAS 238 (Fire Assay) Cert								3030															
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
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GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Oreas E1336 (Fire Assay) Meas							511																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							502																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							508																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							502																
Oreas E1336 (Fire Assay) Cert							510																
GS317-5 Meas																							
GS317-5 Cert																							
GS317-5 Meas																							
GS317-5 Cert																							
GS317-5 Meas																							
GS317-5 Cert																							
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GS317-5 Cert																							
GS317-5 Meas																							
GS317-5 Cert																							
GS317-5 Meas																							
GS317-5 Cert																							
1322020512 Orig								0.7	1.1	31	866	< 1	27	14	341	2.24	96	< 10	27	< 0.5	< 2	0.57	12
1322020512 Dup								0.5	1.1	31	862	< 1	26	14	344	2.23	84	< 10	28	< 0.5	< 2	0.56	11
1229066152 Orig								2.9	2.6	47	1410	< 1	19	125	653	1.62	94	< 10	28	< 0.5	3	1.61	11
1229066152 Dup								2.9	2.7	46	1410	< 1	19	126	648	1.64	95	< 10	25	< 0.5	< 2	1.62	12
1323022001 Orig							8																
1323022001 Dup							13																
1229066262 Orig																							
1229066262 Dup																							
1323019117 Orig																							
1323019117 Dup																							
GC20-0398-001 Orig								2.8	0.8	36	1420	< 1	12	37	203	0.73	116	< 10	17	< 0.5	< 2	2.92	9
GC20-0398-001 Dup								2.6	0.7	36	1400	< 1	12	37	205	0.73	112	< 10	18	< 0.5	< 2	2.95	8
1322020358 Orig							149																

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1322020358 Dup							144																
1323019078 Orig																							
1323019078 Dup																							
GC20-0370-006 Orig							282	1.8	4.3	38	257	2	13	48	1090	0.90	58	< 10	33	< 0.5	2	0.45	10
GC20-0370-006 Dup							295	1.6	4.4	37	246	2	13	49	1070	0.86	63	< 10	35	< 0.5	< 2	0.45	11
1323018062 Orig						8.66																	
1323018062 Dup						8.73																	
1433094599 Orig	52.1	83.2	31.1	67.1	1.24																		
1433094599 Dup	52.1	83.3	31.2	67.1	1.24																		
12529066288 Orig							105																
12529066288 Dup							113																
F001614 Orig								4.2	< 0.5	24	207	16	8	22	39	1.31	< 2	< 10	39	< 0.5	< 2	0.80	6
F001614 Dup								4.2	< 0.5	24	204	16	7	23	38	1.31	< 2	< 10	40	< 0.5	< 2	0.80	5
1229067420 Orig																							
1229067420 Dup																							
1229067491 Orig								5.4	1.2	36	2080	< 1	20	130	342	2.08	55	< 10	38	< 0.5	2	2.86	10
1229067491 Dup								5.1	1.2	36	2070	< 1	20	129	349	2.05	55	< 10	34	< 0.5	< 2	2.86	10
1322002193 Orig																							
1322002193 Dup																							
1322002177 Orig							69																
1322002177 Dup							68																
1322002025 Orig								0.9	0.6	48	390	3	13	13	176	2.98	24	< 10	47	< 0.5	4	1.71	11
1322002025 Dup								0.9	< 0.5	48	390	3	13	12	164	2.99	22	< 10	51	< 0.5	5	1.71	11
1322002078 Orig																							
1322002078 Dup																							
1323023105 Orig							103																
1323023105 Dup							81																
1323023209 Orig							121																
1323023209 Dup							116																
1323023157 Orig								0.9	< 0.5	174	565	1	15	9	123	3.00	12	< 10	45	< 0.5	< 2	1.63	11
1323023157 Dup								0.9	< 0.5	174	566	2	15	11	123	3.03	13	< 10	43	< 0.5	< 2	1.64	10
1323023222 Orig																							
1323023222 Dup																							
1323024106 Orig	27.5	6.46	-21.0	27.0	0.240																		
1323024106 Dup	27.5	6.48	-21.0	27.0	0.241																		
1322003059 Orig																							
1322003059 Dup																							
1322004116 Orig							374																
1322004116 Dup							352																
GC20-0414-001 Orig								7.7	6.1	371	723	1	20	392	1280	1.73	313	< 10	< 10	< 0.5	4	0.74	10
GC20-0414-001 Dup								6.6	5.9	370	709	1	21	388	1240	1.71	309	< 10	11	< 0.5	5	0.71	10
GC20-0416-009 Orig								11.9	1.0	38	440	< 1	13	46	308	0.72	116	< 10	30	< 0.5	< 2	0.77	7
GC20-0416-009 Dup								12.6	1.0	40	443	< 1	14	46	312	0.76	115	< 10	30	< 0.5	2	0.78	7
1322004025 Orig						8.28																	

Analyte Symbol	AP	NP	NNP	MPA	NP:MP A Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaC O3/t	kg CaC O3/t	-	kg CaC O3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1322004025 Dup						8.30																	
1322005295 Orig	7.19	8.85	1.66	7.04	1.26																		
1322005295 Dup	7.19	8.85	1.67	7.04	1.26																		
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	45	5.13	< 10		0.48	38	1.24	0.030	0.064	0.36	< 2	4	16			< 2	< 10	37	< 10	20	10		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	44	4.97	< 10		0.47	38	1.22	0.028	0.065	0.35	< 2	4	16			< 2	< 10	37	< 10	20	12		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	45	5.22	< 10		0.43	37	1.23	0.027	0.064	0.36	2	3	16			< 2	< 10	35	< 10	17	9		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 923 (AQUA REGIA) Meas	41	5.76	< 10		0.40	34	1.30		0.062	0.65	3	4	14			< 2	< 10	36	< 10	18	21		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	41	5.84	< 10		0.40	35	1.30		0.062	0.64	< 2	3	14			< 2	< 10	35	< 10	18	23		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	41	6.17	< 10		0.38	34	1.35		0.066	0.67	3	3	15			< 2	< 10	36	< 10	16	17		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 96 (Aqua Regia) Meas										3.90	5												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										3.87	5												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										4.02	5												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 621 (Aqua	30	3.27	10	4	0.39	20	0.41	0.178	0.034	4.72	92	2	18			< 2	< 10	14	< 10	7	46		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Regia) Meas																							
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	30	3.20	< 10	4	0.36	19	0.40	0.171	0.033	4.40	87	2	17			3	< 10	13	< 10	7	43		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	32	3.25	< 10	3	0.36	20	0.40	0.175	0.035	4.24	91	2	18			< 2	< 10	13	< 10	7	56		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.36
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.33
GS316-3 Cert																						0.0600	0.340
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
GS317-5 Meas																						8.24	15.2
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.10	15.5
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.33	15.3
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.28	14.9
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.04	15.0
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.25	15.0
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.19	15.0
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.38	14.8
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.22	14.7
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.17	15.0
GS317-5 Cert																						8.46	15.5
1322020512 Orig	191	3.46	< 10	1	0.30	11	1.39	0.024	0.039	1.50	2	1	21	0.01	< 1	< 2	< 10	12	< 10	2	12		
1322020512 Dup	187	3.47	< 10	< 1	0.29	11	1.40	0.025	0.038	1.48	3	1	20	0.01	< 1	< 2	< 10	12	< 10	2	12		
1229066152 Orig	94	2.44	< 10	< 1	0.36	18	1.08	0.050	0.058	2.45	2	< 1	18	< 0.01	3	< 2	< 10	10	< 10	2	13		
1229066152 Dup	93	2.47	< 10	< 1	0.36	18	1.08	0.050	0.058	2.45	< 2	< 1	18	< 0.01	< 1	< 2	< 10	10	< 10	2	11		
1323022001 Orig																							
1323022001 Dup																							
1229066262 Orig																						0.52	1.36
1229066262 Dup																						0.52	1.34
1323019117 Orig																						0.18	1.80
1323019117 Dup																						0.19	1.81
GC20-0398-001 Orig	166	2.73	< 10	< 1	0.23	16	0.28	0.022	0.043	3.12	< 2	< 1	27	< 0.01	< 1	< 2	< 10	4	< 10	1	9		
GC20-0398-001 Dup	161	2.66	< 10	< 1	0.24	15	0.28	0.022	0.043	3.11	< 2	< 1	27	< 0.01	2	< 2	< 10	4	< 10	1	9		
1322020358 Orig																							
1322020358 Dup																							
1323019078 Orig																						0.71	1.33
1323019078 Dup																						0.72	1.29
GC20-0370-006 Orig	192	1.82	< 10	< 1	0.33	15	0.21	0.030	0.048	1.78	3	< 1	17	< 0.01	< 1	< 2	< 10	6	< 10	1	9		
GC20-0370-006 Dup	190	1.80	< 10	< 1	0.31	15	0.20	0.027	0.048	1.73	< 2	< 1	17	< 0.01	< 1	< 2	< 10	6	< 10	1	9		
1323018062 Orig																							
1323018062 Dup																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1433094599 Orig																							
1433094599 Dup																							
12529066288 Orig																							
12529066288 Dup																							
F001614 Orig	13	1.49	< 10	< 1	0.21	20	0.35	0.208	0.042	0.04	< 2	2	37	0.21	3	< 2	< 10	39	< 10	15	6		
F001614 Dup	13	1.46	< 10	< 1	0.21	19	0.34	0.208	0.042	0.04	< 2	2	37	0.21	2	< 2	< 10	38	< 10	15	6		
1229067420 Orig																						0.58	1.39
1229067420 Dup																						0.58	1.42
1229067491 Orig	136	2.24	< 10	< 1	0.47	17	1.35	0.095	0.048	1.74	< 2	1	36	0.01	< 1	< 2	< 10	12	< 10	3	11		
1229067491 Dup	136	2.21	< 10	< 1	0.45	17	1.36	0.093	0.047	1.76	< 2	1	36	< 0.01	2	< 2	< 10	12	< 10	3	5		
1322002193 Orig																						0.34	2.02
1322002193 Dup																						0.35	2.06
1322002177 Orig																							
1322002177 Dup																							
1322002025 Orig	243	2.22	< 10	< 1	0.26	15	0.57	0.210	0.050	1.11	< 2	< 1	179	0.01	1	< 2	< 10	11	< 10	2	3		
1322002025 Dup	248	2.18	< 10	< 1	0.26	15	0.56	0.209	0.049	1.09	< 2	< 1	178	0.01	2	< 2	< 10	11	< 10	2	3		
1322002078 Orig																						0.20	0.58
1322002078 Dup																						0.20	0.57
1323023105 Orig																							
1323023105 Dup																							
1323023209 Orig																							
1323023209 Dup																							
1323023157 Orig	281	2.49	< 10	< 1	0.28	13	0.66	0.133	0.040	1.22	< 2	< 1	97	0.04	< 1	< 2	< 10	12	< 10	2	4		
1323023157 Dup	281	2.51	< 10	< 1	0.28	12	0.65	0.135	0.040	1.21	< 2	< 1	97	0.04	< 1	< 2	< 10	12	< 10	2	4		
1323023222 Orig																						0.25	2.51
1323023222 Dup																						0.24	2.47
1323024106 Orig																							
1323024106 Dup																							
1322003059 Orig																						0.18	1.36
1322003059 Dup																						0.18	1.34
1322004116 Orig																							
1322004116 Dup																							
GC20-0414-001 Orig	249	4.97	< 10	2	0.44	18	0.79	0.038	0.052	5.44	5	1	19	< 0.01	< 1	< 2	< 10	13	< 10	2	18		
GC20-0414-001 Dup	247	4.93	< 10	3	0.43	18	0.78	0.038	0.052	5.32	5	1	19	< 0.01	< 1	< 2	< 10	13	< 10	2	18		
GC20-0416-009 Orig	279	1.06	< 10	< 1	0.32	17	0.12	0.021	0.042	0.99	3	< 1	15	< 0.01	1	< 2	< 10	4	< 10	1	6		
GC20-0416-009 Dup	289	1.09	< 10	< 1	0.34	18	0.12	0.023	0.043	0.97	3	< 1	15	< 0.01	1	< 2	< 10	4	< 10	1	6		
1322004025 Orig																							
1322004025 Dup																							
1322005295 Orig																						0.17	0.23
1322005295 Dup																						0.17	0.22
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.005	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.006	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.008	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.008	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		