Troilus Mine
Surface Water Quality Model

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Acronyms

ARD	Acid Rock Drainage
PAG	Potentially Acid Generating
NP	Neutralization Potential
SI	Saturation Index
EDMC	Empirical Drainage Chemistry Model
pF	Powder Factor
fR	Residual Nitrogen
fN	Nitrogen Forms as Provided by Explosive Products
K^{INT}	Intrinsic Equilibrium Constants

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1. Introduction

The Troilus Mine was originally operated from November 1996 to April 2009. The mine was an open pit operation for the extraction of gold, copper, and silver, with a production of over 2 million oz of gold and approximately 70,000 t of copper. Upon closure, a significant amount of the site infrastructure was left in place (AGP; NI 43-101, 2024).

The new development will be an open pit operation, including the Z87, J, X22, and SW mineralized zones, with a cut-off grade of 0.3 g/t AuEQ for all zones. The estimated tonnage to be mined during the mine life is 1550 Mt.

To reopen the mine and assess the potential environmental impacts, it is important to build a model to predict the quality of the water that will be in contact with the waste rock, tailings, and pit walls, as well as to predict water quality at the receiving environments and pathways. As requested by Troilus, the water quality was predicted for year 21 of operations, with the reasoning being that the accumulation of waste rock and tailings will be the greatest, with pit dewatering still occurring for X22, 87, and J open pits.

1.1 Geochemical context

As discussed in Chapter 5 of the Environmental and Social Impact Assessment (ESIA), full-scale monitoring of previous operations demonstrates that the mined Troilus rock did not generate acid rock drainage (ARD), contrary to what most static and some kinetic tests predicted, i.e. that the rock would be potentially acid-generating (PAG). Minesite Drainage Assessment Group (MDAG) carried out an assessment of all geochemical test work carried out to date, to assess the discrepancy between observed conditions and predictive geochemical test work. Previous studies have concluded that ARD potential ranged from none to the appearance after several years, or even after only 1,500 years of exposure (MDAG, 2024 a, b, c).

The results from the MDAG reports (2024a, b, c) indicated that the ARD discrepancy can be explained by the methods used to analyze the neutralization potential (NP) of the mined rock. Standard testing to determine NP consists of a 24-hour titration test (known as the Sobek-test) with the purpose of determining the NP of mainly Ca- and Mg-carbonates that might be present in the tested rock. However, the Sobek test was not designed to estimate NP that might occur from the dissolution of recalcitrant alkaline silicate phases, such as the plagioclase mineral series.

Detailed mineralogical testing, including standard testing (such as: X-ray diffraction, QEMSAN, optical mineralogy), combined with novel methods (Raman spectroscopy), demonstrated that Troilus rock has a significant abundance of plagioclase minerals (up to 54 wt.%), in particular bytownite (4 wt.%) and oligoclase (26 wt.%). The distinction of specific mineralogy within the plagioclase minerals was of great importance, given the drastic differences in the dissolution rates from each different phase, ranging from single to several orders of magnitude. NP estimations based on dissolution rates indicated that the bytownite will be responsible for 81% of the NP provided by silicate minerals found in Troilus rock. The NP of bytownite, and other plagioclase minerals, was not accurately estimated by the Sobek test, which explains the discrepancy between the geochemical test work carried out to date and observed conditions. Based on the study carried out by MDAG, the bulk Troilus rock will not release ARD; however, smaller-scale amounts could do so. Please refer to Chapter 5, for details regarding the geochemical context of the Troilus rock.

2. Geochemical Modeling and Simulation Strategy

2.1 Modeling Approach

The mass-balance models were developed using PHREEQC v3.7.3 and the lnll.dat thermodynamic database (Parkhurst, 1995). The lnll.dat database was used since it contains the solution species and thermodynamic properties for major and trace elements. The llnl.dat covers temperature and pressure ranges form 0.01–100 °C at 1 bar, and 100–300°C at water vapor saturation pressure. This database uses the ideal gas law for gas fugacity coefficient and applies to solutions with an ionic strength less than one molal. Additions or modifications to the thermodynamic database included the definition of solid phases, including ferrihydrate [$Fe(OH)_3$], $Al(OH)_3$(a), $Fe(OH)_3$(a), and schwertmannite [$Fe_8O_8(OH)_6(SO_4)\cdot nH_2O$].

All solutions analyzed have an ionic strength of less than one molal. PHREEQC can handle different ionic strengths, pH, pressures, and temperatures of the solutions. In PHREEQC, the mass equations are written in terms of activities, where the equilibrium constant of each reaction is assumed to apply at all ionic strengths.

Saturation indices (SI) were evaluated by PHREEQC. A positive SI (SI>0) indicates that the mineral is saturated with respect to the solution. However, SI does not consider kinetic boundaries (either for dissolution or precipitation). Therefore, a positive SI does not guarantee that saturated minerals will form within finite time constraints. The amount of precipitation of each mineral (q_i) is calculated with PHREEQC by defining an equilibrium condition of SI=0, which may be coupled with kinetic restriction expressions. PHREEQC calculates the moles of precipitates that occur in 1 L of water.

2.2 Regulatory framework

Results from baseline conditions and from the predictive water quality model were compared against regulatory criteria, including the following:

- Maximum Authorized Concentrations of Prescribed Deleterious Substances (MDMER, 2002).
- Final effluent discharge point requirements (Directive 019, 2025): Determines the maximum concentration of water quality parameters in accordance with the acute lethal toxicity levels in rainbow trout (Oncorhynchus mykiss) and daphnia (Daphnia magna).
- Provincial surface water quality criteria for the short- and long-term protection of all aquatic organisms: Acute toxicity criterion (CVAA): maximum concentration of a substance to which aquatic organisms can be exposed for a short period without suffering serious adverse impacts.
- Chronic aquatic life criterion (CVAC): the highest concentration of a substance that will not produce adverse effects on aquatic organisms (and their offspring) when exposed daily throughout their lives.
- Canadian Water Quality Guidelines (CEQGs) for the Protection of Aquatic Life (Canadian Council of Ministers of the Environment): These guidelines are intended to protect all forms of aquatic life and all aspects of aquatic life cycles, including the most sensitive life stage of the most sensitive species over the long term from anthropogenic stressors such as chemical inputs or changes to physical components. They provide the science-based benchmark for a nationally consistent level of protection for aquatic life in Canada.

2.3 Year 21 Infrastructure

Figure A shows the projected mine infrastructure for year 21 of operations. The figure shows the locations of waste rock piles, pits, tailings storage facility (TSF), ore stockpile, sedimentation ponds, and other infrastructure. The figure also contains the water management infrastructure, where contact and non-contact water is defined. All contact water and water from the dewatering of the pits will be directed to the sedimentation ponds before being discharged into the environment.

The ore stockpile located directly north of Lake B was moved from being immediately adjacent to the water rock pile WD-87-1 (location shown on Figure A). This change in the design was done in February 2025 and was not incorporated in the water quality prediction model.

2.4 Hydrology

Total monthly flow for all water courses and catchments within the project area (including the de-watering of the pits) was used to calculate the mixing fractions for the water quality model. Water storage in diversion channels and creeks was neglected, given that it is virtually nonexistent when compared to the total monthly flows. Water storage was considered for Lake A, based on the data obtained from the hydrological assessment (see Chapter 11 of the ESIA).

Two scenarios were considered for estimating the hydrological regime:

- HST: Historical climate conditions projected for year 21 of operations
- CC: Climate change scenarios predicted for year 21 of operations

2.5 Geochemical Source Terms

Geochemical source terms were developed by MDAG (2024c). The source term models were developed using an empirical drainage chemistry model (EDCM). The EDCM uses pH and sulphate correlations to determine the water quality parameters for the expected mining effluent. The data used to construct the EDCM consisted of all geochemical test work carried out to date, as well as data from the monitoring program conducted during previous large-scale operations at Troilus. The recorded total and dissolved species were used for the EDCM. The output of the EDCM was defined by linear correlations, based on the maximum aqueous species reported. Therefore, the output of the EDCM is considered a conservative approach to estimate the mining effluent.

The composition of the predicted mining effluent is dependent on pH conditions (see Chapter 5 for details). The effluent pH conditions during previous operations at Troilus were circum-neutral, with a pH range of 6–8. Troilus has included as an attenuation measure the application of limestone to the sedimentation ponds, should the pH of the solutions at the sedimentation ponds drop below 8. The inputs for the effluent water quality for the predictive water quality model were defined by a pH of 8. The pH conditions used for the model are in agreement with the pH range from the humidity cells test that was carried out during operation for waste rock and tailings samples (BII, 2000). The water quality predictions presented in Chapter 13 are only applicable if the pH is maintained at 8 throughout the life cycle of the mine operations.

The developed EDCM models do not provide individualized concentrations for each of the designed mine structures during year 21, or the applicable hydrological regime of each structure. Rather, the EDCM provides the maximum concentrations of aqueous species that are expected for all mining effluent regardless of origin and hydrological regime (i.e. no differentiation between waste rock effluent, pit walls, or tailings seepage). Therefore, the composition of all contact water (water in contact with the waste rock and ore deposits, and seepage water from the tailings facility) was defined by the outcome of the EDCM, regardless of the projected mine infrastructure.

2.6 Baseline conditions

Monitoring data from 2019 to 2022 was used to define end members for the water quality prediction model. The data range was chosen to avoid carrying baseline conditions that reflect the previous mining operations. Data from 2022 was the most recent data available to BluMetric. The model included water quality data from the following monitoring stations (Figure A):

- Lac Amont (E7)
- E4
- Lac A (E3)
- Pit 87
- Pit J4

The results from the predictive water quality model were compared against provincial and federal regulatory criteria, baseline conditions, including the stations used as inputs to the water quality model, as well as the following monitoring stations:

- E2
- E3
- E5

All analyzed parameters with values below detection limit (bdl) were treated as: bdl/√2 (Corghan, 2003).

The baseline data were treated conservatively, given the approach used to develop the geochemical source terms. The values used for each of the stations mentioned above consisted of summing twice the standard deviation to the average values for trace element concentrations. The average values were used for the major cation and anion data to avoid major changes in the general water chemistry parameters. Reported concentrations for total metals were used in place of dissolved metals. Therefore, any reported exceedances that have been reported in the monitoring program have been carried into the model. A summary of the exceedances of water quality parameters compared to baseline conditions is provided in Chapter 13.4.4.

2.7 Dissolved and Total Aqueous Concentrations

The mass balance model only predicts dissolved species concentrations. However, water quality inputs from baseline conditions (including pit dewatering) are in total concentrations. Effluent composition was determined from maximum aqueous concentrations derived from the geochemical test work and the monitoring program, including both dissolved and total concentrations. Therefore, the dissolved concentrations provided by the mass balance model reflect total concentrations, and the model results were used for comparison with regulatory criteria.

2.8 Explosives and Expected Nitrogen Contribution

Explosives are commonly the major contributor of nitrogen in contact waters at mines that use ammonium nitrate explosives. The primary components of these explosives are ammonium and nitrate. Under ideal blasting conditions, nitrogen species are completely oxidized to nitrogen gas. Nitrogen in residual explosives is highly soluble and can be mobilized by water flushing unlined blast holes or from flushing explosives transported to waste rock spoils. The speciation of nitrogen is dependent on pH and redox conditions (Figure 1). Nitrate is the most abundant nitrogen species that results from residual nitrogen from explosives.

Geochemical source terms for nitrogen and its species are derived from operational data and monitoring data. The following components are required to define the source terms for nitrogen:

- Type of explosives and powder factor (Pf)
- Estimation of blasting residual (fR)
- Hydrological regime
- Tonnage of materials to be extracted via explosives.

The residual nitrogen content can be determined by empirical analysis of analogous mining operations. Values in literature indicate a fR range between 1% from ammonium nitrate/fuel oil (ANFO) explosives to 5% from emulsion explosives (Mahmood et al., 2017). Based on the feasibility study (AGP; NI 43-101, 2024), emulsion explosives with a Pf of 0.31kgN/t will be used for the feed and waste material. To maintain a conservative approach, as discussed in Sections 2.5 and 2.6, nitrogen loadings will be calculated assuming the use of ANFO explosives, with an fR value of 4.5%. For reference, the nitrogen source terms developed for the Crawford project (Lorax, 2024) and for the Elk Valley Regional Water Quality Model (SRK, 2021) were 2.7–2.9%, and 4.5%, respectively. fR is a variable factor that it is site-specific and needs to be corroborated during operations to confirm or modify the assumptions made for the water quality predictive model.

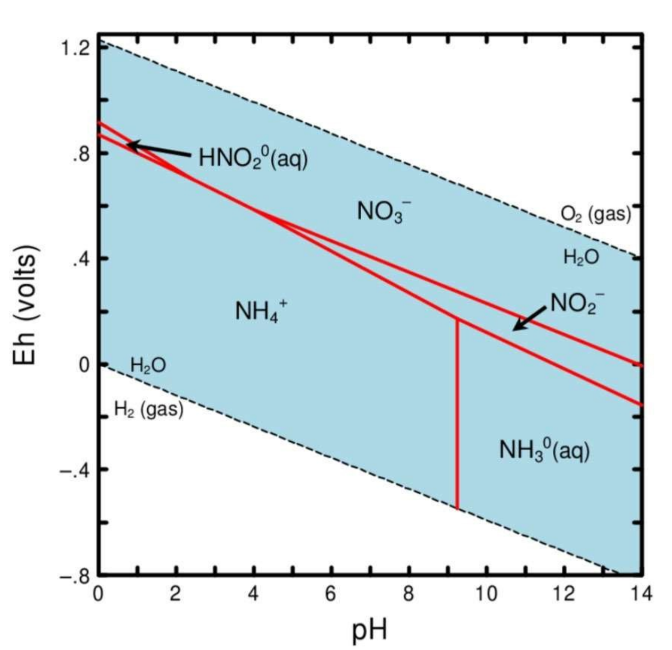

Figure 1 : Nitrogen speciation depending on pH and Eh conditions in a Fe-S system at 25°C (Dockrey et al., 2015).

The processes that control the speciation of nitrogen are complex and depend on several factors that include the distribution of nitrogen in the explosive mixtures, the oxidation efficiency to nitrogen dioxide gas during blasting, microbially-mediated enzymatic reactions, ion exchange processes along the flow paths, and pH and redox conditions (Figure 1). Nitrogen speciation was determined through empirical observations from the existing monitoring program. The data available to BluMetric, obtained from the monitoring program described in Section 2.6 (excepting the data from the pit water), does not contain nitrogen speciation and therefore could not be used to estimate the expected speciation. Water quality parameters obtained from the water at pits 87 and J4 contained nitrate, nitrite and total ammonia (Table 1). For reference, the nitrogen speciation from the collected water from the existing pits 87 and J4 is similar to that reported for the Crawford project (leachate from the stockpiles; Lorax, 2024).

Table 1 : Nitrogen speciation observed from the collected waters at the existing pits 87 and J4 (including the speciation)

Project	Nitrogen Speciation (% as N)		
	Total Ammonia (NH3)	Nitrate (NO3)	Nitrite (NO2)
Troilus (Pits 87 and J4)	2.0%	97.3%	0.7%
Crawford (Impoundment facility and stockpiles)	0.7%	98.9%	0.4%

The total residual nitrate loadings can be estimated using:

$$NO_3\ (kgNO_3/year) = V(n) \cdot pF \cdot fN \cdot fR \qquad (1)$$

where, fN is the nitrogen form as provided by explosive products. Typical values are 0.31 and 0.25 for ANFO and emulsion explosives, respectively. The resulting nitrate loadings were estimated to be 4.6 gNO_3/t. Loadings can be converted to concentrations by multiplying the amount of contact water that is predicted for all the different infrastructure designed for the new operations. Following the approach from the EDCM (Section 2.5), the nitrate concentrations were provided irrespective of the individual infrastructure, but rather by accounting for all contact water, and including all waste rock and feed to be extracted during the future mine operations.

Nitrate and ammonia concentrations were estimated as follows:

$$[NO_2]\ (mg/L) = f_{NO_2} \cdot [NO_3] \qquad (2)$$

$$[NH_3]\ (mg/L) = f_{NH_3} \cdot [NO_3] \qquad (3)$$

where f_{NO_2}·and $f_{NH_3}$are the fraction between nitrate and ammonia against nitrate concentrations, based on Table 1.

Data from the monitoring program during previous mining operations at Troilus will increase the accuracy of nitrogen loadings and speciation predictions provided in this section. Data available to BluMetric for the period of previous operations are limited to BS-2 and PR-1. Data do not include nitrite concentrations. Therefore, there will be uncertainty in the defined fraction values (Table 1) to predict the speciation of nitrogen in surface water bodies. It is recommended that the nitrogen predictions be revised using data obtained from previous operations or that the model be calibrated with data that will be obtained during future operations.

The conditions reflected on Table 1 are only representative of oxidizing atmospheric conditions, and therefore, the nitrogen speciation estimation provided in this document does not apply to reductive conditions that might occur during winter months or leachate that originates from saturated materials (e.g. tailings within the impoundment).

Hydrological lag time was not considered for developing nitrogen source terms.

Nitrogen speciation was also calculated using the PHREEQC model under ambient and reductive conditions. The predicted nitrite and ammonia concentrations from the model were, in all cases, lower than when using Equations 1–3. Therefore, nitrogen concentrations were calculated using the empirical model and the equations mentioned above.

2.9 Simulations

Batch simulations were carried out by mixing end-member solutions described in Sections 2.5 and 2.6 and considering equilibrium conditions with mineral and gas phases. This method has been used to predict the water quality at several mine sites that discharge acid drainage into the environment (Mosley et al., 2015, Balistrieri et al., 2007, and Ryskie et al., 2024, Vandenberg et al., 2011).

For these simulations, atmospheric CO_2 and O_2 concentrations were considered during the spring to fall months. No gas exchange was considered during the winter months (including degassing). Mixing fractions were calculated for each junction based on the total monthly flow of water of each stream/contributor, based on the hydrological model (details in Chapter 11). Figure 2 shows the approach used for the geochemical model. Figure A shows all the modelled junctions, projected mine infrastructure, and the differentiation between contact and non-contact water. The geochemical conditions applied can be summarized as follows:

- All baseline and effluent solutions were assessed for their charge balance between cations and anions. Solutions with a charge balance error +/-10%, were corrected by varying calcium concentrations.
- All solutions (baseline, effluents, and predicted) were analyzed for solubility limits of mineral phases. All phases with a SI>0 were individually assessed to determine the likelihood of precipitation.
    - The estimation of solubility limits by PHREEQC is based on thermodynamic properties and does not account for kinetic limitations. Therefore, not all saturated phases are likely to precipitate.

   - The phases that the model predicts are likely to precipitate are provided in **Erreur ! Source du renvoi introuvable.**. The phases provided in this table are only those that are likely to precipitate based on available literature (MDAG, 2024c, Jonsson et al., 2005, Elghali et al., 2021, Ugwu and Sherman, 2019):
- Surface complexation modelling: substitution of metals with major elements within potential precipitates was modelled.
   - Surface area values were considered at 600 m^2/g, and the following surface site densities:
      - Fe(OH)3(a): 0.005 and 0.2 mole/mole for strong and weak sites, respectively.
      - Al(OH)3(a): 0.033 mole/mole for strong sites.
      - Surface complexation sites are defined by the amount of iron oxide ($Fe(OH)_3$(a)) and aluminum oxide ($Al(OH)_3$(a)) precipitates.
   - Adsorption of major and minor ions onto Al(OH)3(a) and Fe(OH)3(a) was modelled using surface complexation constants from the generalized two-layer model (Dzombak and Morel, 1990; Karamalidis and Dzombak, 2010; **Erreur ! Source du renvoi introuvable.**).
- All contact water parameters were defined by the EDCM (see Section 2.5).
   - Where non-contact water was clearly distinguished (i.e., catchments that only contain overburden piles or beyond the Project Development Area; Figure A).
   - Solutions originated at SO5, D10b, and D06b were assumed to have similar water quality as those reported for Lake Amont, given that they will only be influenced by overburden materials.
- Mixing fractions were determined by the hydrological HEC-HMS model (see Chapter 11 for details). Water storage at the Bibou diversion channel was not considered in the model, given that the cumulative volume of water flowing through the channel is orders of magnitude larger than its storage capacity.
   - Water storage was considered for Lake A. All incoming solutions into the lake were mixed with the initial storage volume. The water quality at the lake was modelled for two consecutive years until year-after-year monthly steady-state conditions were achieved at the lake. Baseline water quality parameters were used as the initial water quality for the water stored at the lake.
- The following scenarios were modelled:
   - **HST_pre_pH8:** Historical Conditions. Mineral precipitation was allowed. Effluent pH of 8.
   - **HST_calcite_pH8:** Historical Conditions. Effluent solutions at sedimentation ponds in equilibrium with calcite. Mineral precipitation was allowed. Effluent pH of 8.
   - **HST_nopre_pH8:** Historical Conditions. No precipitation. Effluent pH of 8.

- **CC_pre_pH8:** Climate Change Conditions. Mineral precipitation was allowed. Effluent pH of 8.
- **CC_nopre_pH8:** Climate Change Conditions. No precipitation. Effluent pH of 8.
- **CC_calcite_pH8:** Climate Change Conditions. Effluent solutions at sedimentation ponds in equilibrium with calcite. Mineral precipitation was allowed. Effluent pH of 8.
- **HST_pre_pH65:** Historical Conditions. Mineral precipitation was allowed. Effluent pH of 6.5.
- **HST_nopre_pH65:** Historical Conditions. No precipitation. Effluent pH of 6.5.

- When applicable, the effluent solution with a pH of 8 was equilibrated with calcite and dolomite to simulate the resulting water chemistry that may result if liming application is carried out.
- All solutions were equilibrated at the monthly temperature average for the Troilus site (AGP; NI 43-101, 2024). To avoid freezing of the effluent solutions that are discharged to the environment during the winter months, the temperature for winter months was defined as 3°C.
    - Water quality predictions for winter months beyond Lake A were not provided, given that water flow during the winter months is negligible, compared to during non-winter months.
- To assess the oxidation rate of Fe2+, the kinetic restriction for Fe2+ oxidation by O2 provided by Palandri and Kharaka (2004) was used:

$$\frac{dm_{Fe^{2+}}}{dt} = -\left(2.91E-9+1.33E12\, a_{OH}^2\, P_{O_2}\right)m_{Fe^{2+}} \quad (4)$$

where t is time in seconds, a_{OH}^2 is the activity of the hydroxyl ion, $m_{Fe^{2+}}$ is the total molality of ferrous iron in solution, and P_{O_2} is the oxygen partial pressure (atm).

- Kinetic boundaries were defined for the oxidation of Fe+2. Precipitation of all saturated phases (SI>0) occurs immediately.

Table 2 : Phases that are likely to precipitate (SI>1)

Phases	Formula
Al(OH)3(a)	Al(OH)3
Aragonite	CaCO3
Barite	BaSO4
Dolomite	CaMg(CO3)2
Gypsum	CaSO4·2H2O
Hydroxylapatite	$Ca_5(PO_4)_3(OH)$
Saponite-Ca	Ca0.17Mg3Al0.34Si3.66O10(OH)2
SiO2(a)	SiO2
Fe(OH)3(a)	Fe(OH)3

(a) indicates that the phase is amorphous.

Table 3: Summary of intrinsic equilibrium constants (K_{INT}) for Cd, Co, Cu, Ni, Pb and Zn adsorption onto iron and aluminum oxides.

Element	Iron oxidesa		Aluminium oxidesb
	Log K_{INT}^{1}	Log K_{INT}^{2}	Log KINT
Cd	0.47	-2.9	0.25
Co	-0.46	-3.01	-2.52
Cu	2.89	0.6	-2.73
Ni	0.37	-2.5	–
Pb	4.65	0.3	0.37
Zn	0.99	-1.99	-0.96

– indicates non applicable; aDzombak and Morel, 1990; bKaramalidis and Dzombak, 2010
K_{INT}^{1}: Hfo_sOH+Me2+ = Hfo_sMe++H+
K_{INT}^{2}: Hfo_wOH+Me2+ = Hfo_wMe++H+
Where Hfo_sOH and Hfo_wOH are strong and weak oxide surface sites for iron oxide sites, respectively, and Me2+ is a free metal ion.
KINT: Hao_OH+ M+2= Hao_OM++H+
Hao_OH are aluminium oxide surface sites.

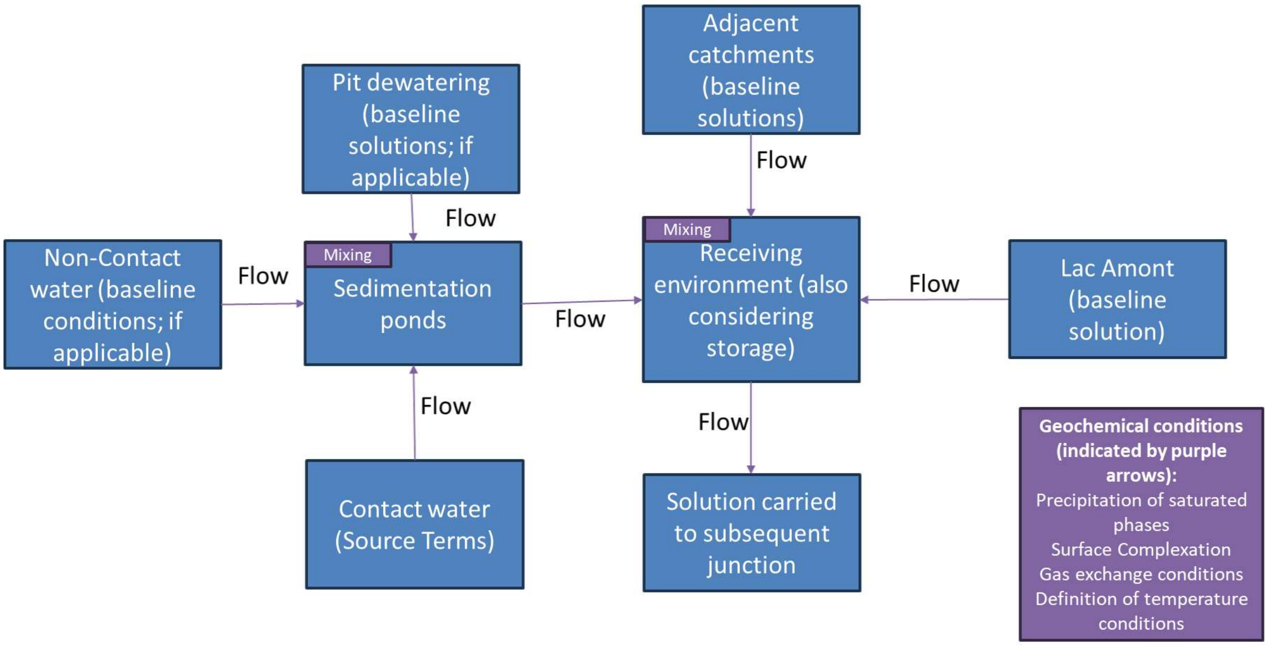

Figure 2: **Block Diagram showing the conditions and methodology used for the geochemical model. Purple arrows indicate the direction of the flow and where the geochemical conditions were modelled. Mixing fractions were determined by total monthly flows for each component, based on the hydrological assessment (see Section 2.3 for details).**

3. Geochemical Model Results

3.1 Oxidation of aqueous Fe^{2+}

3.1.1 Fe^{2+} oxidation conditions

The oxidation of metals in natural waters is affected by the formation of ion-pairs or complexes and by pH conditions (Millero, 1985). The oxidation of Fe^{2+} occurs an order of magnitude slower at pHs below 6. The precipitation of iron phases is mainly dependent on the iron speciation, oxidation, and pH conditions (Figure 3). Under oxidizing conditions, $Fe(OH)_3$(a) is the most abundant phase for pH above 3.5.

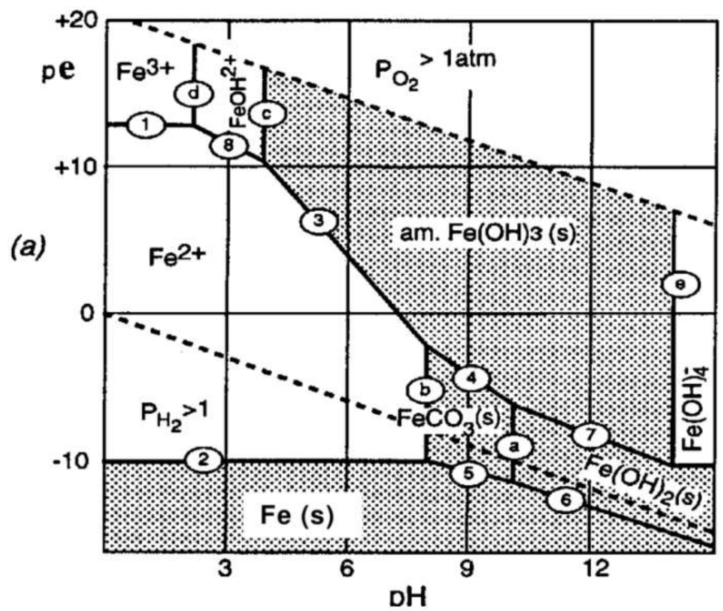

Figure 3 : Iron speciation depending on pH and pE conditions (Stumm and Morgan, 1981)

The oxidation of Fe^{+2} and iron precipitates can be simplified as:

$$Fe^{2+}+O_2+H^+ \rightarrow Fe^{3+}+0.5H_2O \quad (5)$$

$$Fe^{3+}+3H_2O \rightarrow Fe(OH)_{3(s)} + 3H^+ \quad (6)$$

3.1.2 Fe^{2+} oxidation rates

The effluent solution determined with the EDCM (Section 2.5) was used to analyze the rate of Fe^{2+} oxidation and iron oxide precipitation. For this simulation, an effluent solution with a pH of 6.5 was used. Figure 4 shows the model results when applying the kinetic boundaries provided in Section 2.9 to the effluent solution. An almost complete oxidation of Fe^{2+} is obtained in less than one day. The resulting solution is supersaturated with respect to $Fe(OH)_3$(a) (SI>3). If precipitation of $Fe(OH)_3$(a) is allowed, all Fe^{3+} is removed from the solution. The limiting factor for the precipitation of iron oxides is the oxidation rate of Fe^{2+}. Given that the oxidation of Fe^{2+} under the studied conditions occurs within a day, the modelled solutions assumed equilibrium conditions, and water quality predictions were provided for each month of the modelled year.

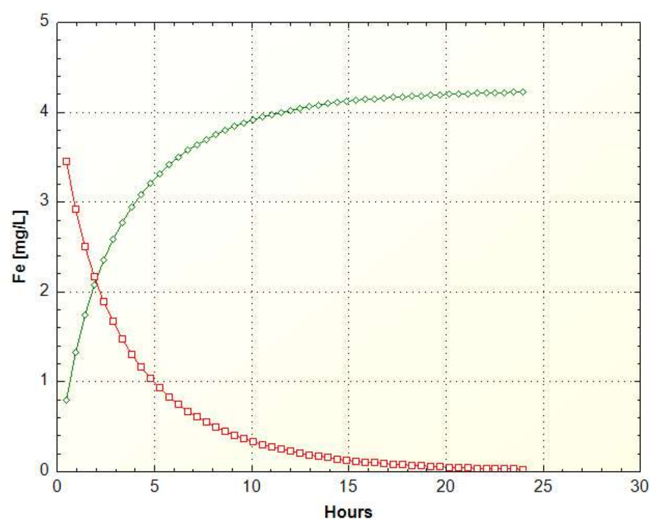

Figure 4 : Fe^{2+} oxidation over time for the effluent solution with a pH of 6.5 under atmospheric oxygen conditions. Red and green lines indicate Fe^{2+} and Fe^{3+} concentrations, respectively.

3.2 Water quality predictions

The predicted water quality is highly dependent on the defined parameters for the effluent. The effluent solutions that result from the linear correlations from the EDCM vary significantly when a fixed pH is chosen. For reference, sulphate concentrations from the effluent range from 794 to 1585 mg/L when a pH of 8 and 6.5 is chosen, respectively. Based on the monitoring data obtained since previous operations, the pH of the mining effluent was between 6–8. Troilus has included as an attenuation measurement a liming plan should the pH of the effluent solutions at the sedimentation pond drop below 8. Based on this information, BluMetric has assessed the impacts when an effluent solution with a pH of 8 is discharged into the environment, which are discussed in Chapter 13. The pH conditions used for the model are in agreement with the pH range from the humidity cells test that was carried out during operation for waste rock and tailings samples (BII, 2000). All the results provided in the chapter are only applicable if the mining effluent is maintained at a pH of 8.

Figures 5 through 13 provide a summary of predicted water quality parameters for all modelled scenarios at Junction 2, 3, 28, and Lake A. Tables A through V provide the water quality parameters for all modelled locations. The figures and tables also report on exceedances of regulatory criteria. Values on the tables are not accurate to all decimal points, but the mathematical value is provided. The box plots in this study show the mean values (square inside the box), the values between the 25th, 50th, and 75th percentiles define the box size, and the ranges are determined by the lower and upper bounds, taking into account an interquartile range coefficient of 1.5.

The model predicts that the discharge of mining effluent to the environment, during year 21 of operations, will increase the hardness and sulphate concentrations of the receiving environment. The resulting hardness and sulphate concentrations are predicted to increase by an order of magnitude at the effluent discharge points, and are particularly dependent on pH conditions.

The main observations from the predictive model are:

- Hardness and sulphate concentrations increase from baseline conditions by an order of magnitude at Bibou Creek and Lake A.
- Effluent solutions defined with a pH of 8 are compliant with MDMER and D019 criteria for all parameters.
    - Predicted pH conditions at the receiver environments range from 7 to 8.2.
- All water parameters are compliant with regulatory criteria or comparable to baseline values at Junction 28.
- As shown in Figures 5 through 13, sulphate, hardness, nickel, and zinc concentrations are virtually independent of solubility limitations, while aluminum, copper, and iron concentrations are strongly dependent on solubility limits.
- The model predicts a virtually complete oxidation of Fe^{2+} to Fe^{3+} under atmospheric conditions. Fe^{3+} is controlled by the solubility of iron oxyhydroxides. During winter months, Fe^{2+} remains mobile in solution.
- The model results from historical and climate change conditions mainly differ in the following ways:

- During the winter months, the ratio between contact and non-contact water is higher for the climate change scenario when compared to historical conditions, while the opposite is observed for non-winter months.
- The climate change scenario results in greater rainfall compared to historical conditions, which increases the overall ratio of non-contact versus contact water, resulting in lower annual average concentrations for dissolved species for climate change scenarios compared to historical conditions.

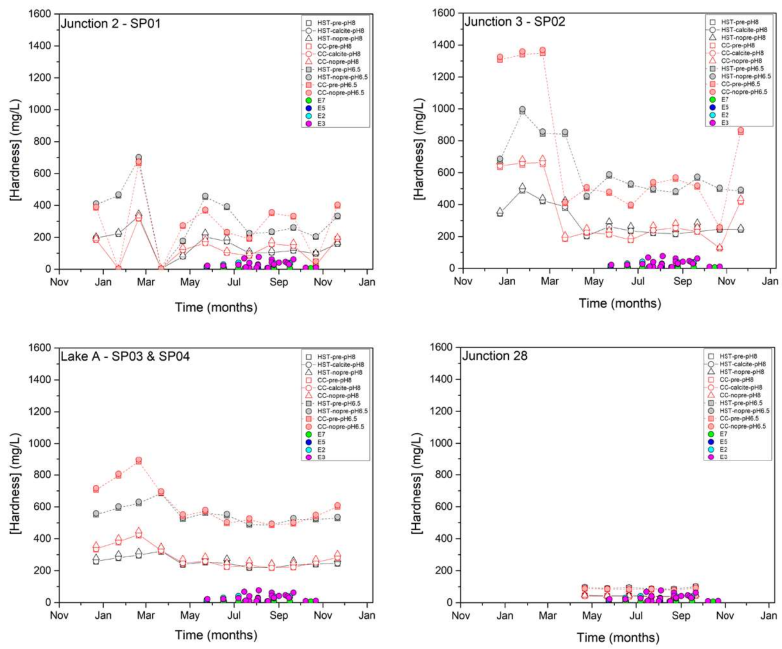

Figure 5 : **Predicted versus baseline water hardness for all modelled scenarios. Continuous and dashed lines represent scenarios HST/CC for an effluent with a pH of 8 and 6.5, respectively.**

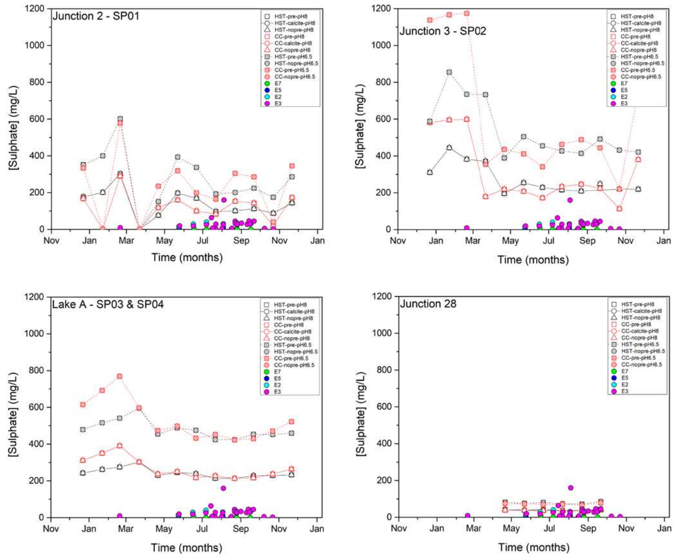

Figure 6 : **Predicted versus baseline dissolved sulphate concentrations for all modelled scenarios. Continuous and dashed lines represent scenarios HST/CC for an effluent with a pH of 8 and 6.5, respectively.**

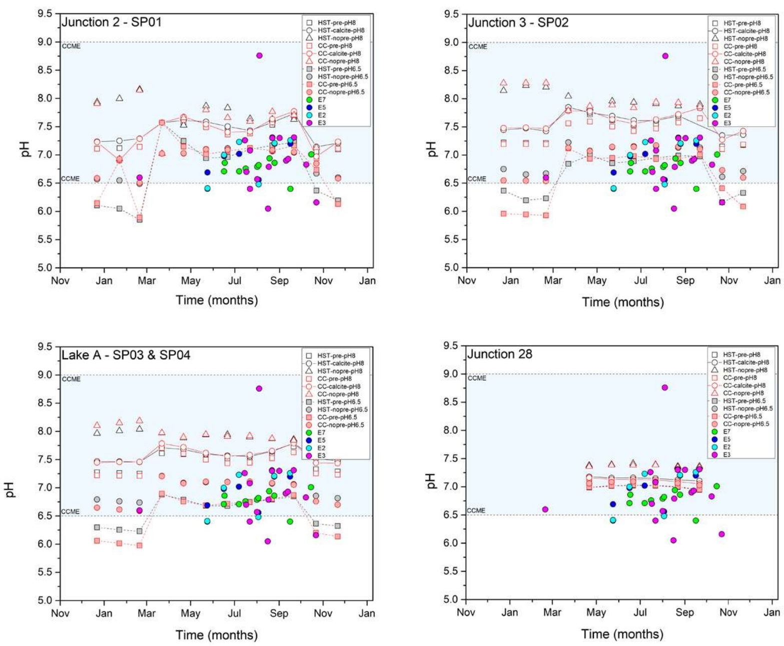

Figure 7 : **Predicted versus baseline pH conditions for all modelled scenarios. Continuous and dashed lines represent scenarios HST/CC for an effluent with a pH of 8 and 6.5, respectively.**

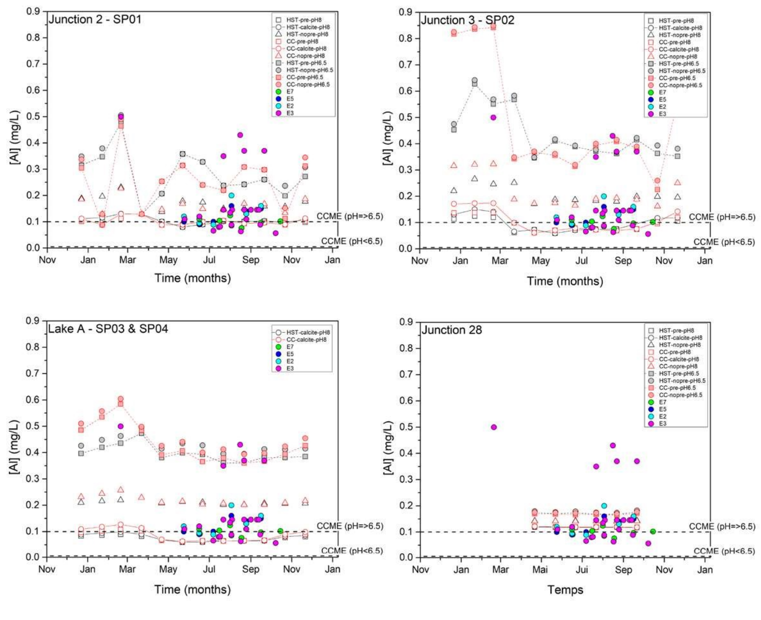

Figure 8 : **Predicted versus baseline dissolved aluminium concentrations for all modelled scenarios. Continuous and dashed lines represent scenarios HST/CC for an effluent with a pH of 8 and 6.5, respectively. Federal and provincial guidelines are indicated by dashed horizontal lines.**

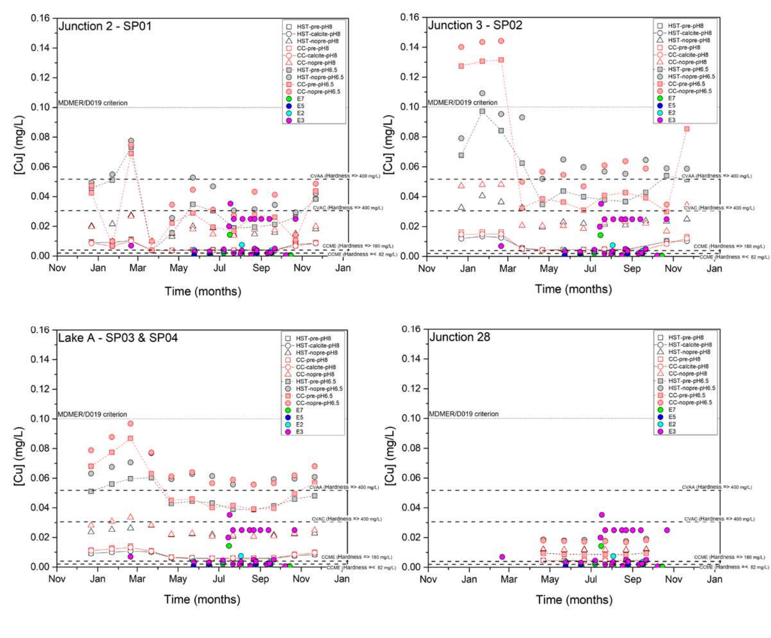

Figure 9 : **Predicted versus baseline dissolved copper concentrations for all modelled scenarios. Continuous and dashed lines represent scenarios HST/CC for an effluent with a pH of 8 and 6.5, respectively. Federal and provincial guidelines are indicated by dashed horizontal lines.**

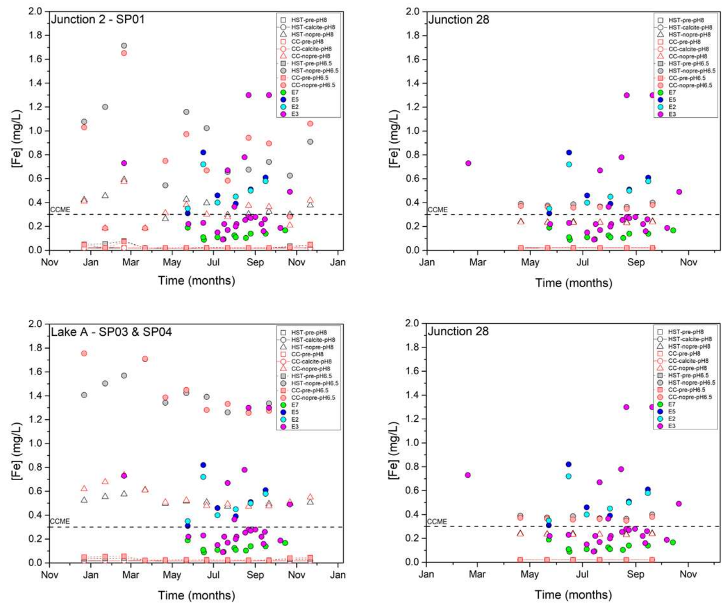

Figure 10 : **Predicted versus baseline dissolved iron concentrations for all modelled scenarios. Continuous and dashed lines represent scenarios HST/CC for an effluent with a pH of 8 and 6.5, respectively. Federal and provincial guidelines are indicated by dashed horizontal lines.**

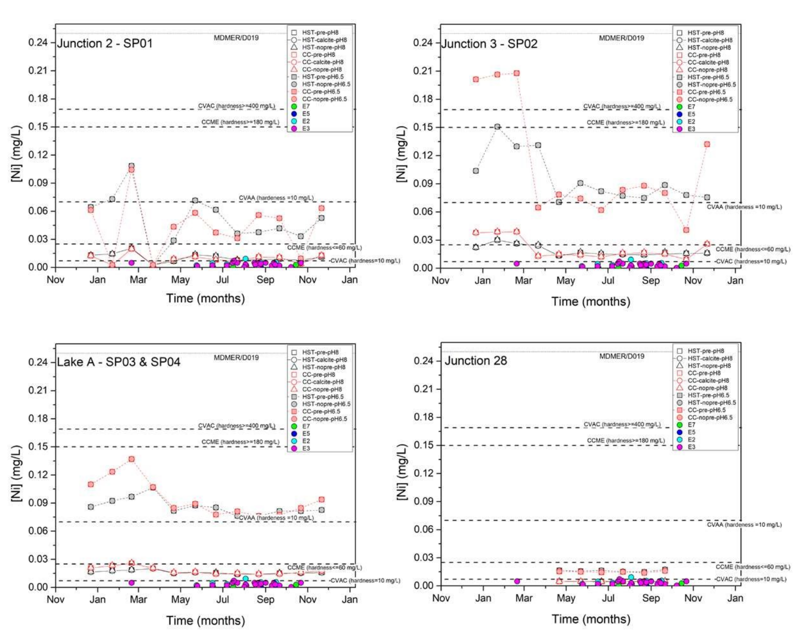

Figure 11 : **Predicted versus baseline dissolved nickel concentrations for all modelled scenarios. Continuous and dashed lines represent scenarios HST/CC for an effluent with a pH of 8 and 6.5, respectively. Federal and provincial guidelines are indicated by dashed horizontal lines.**

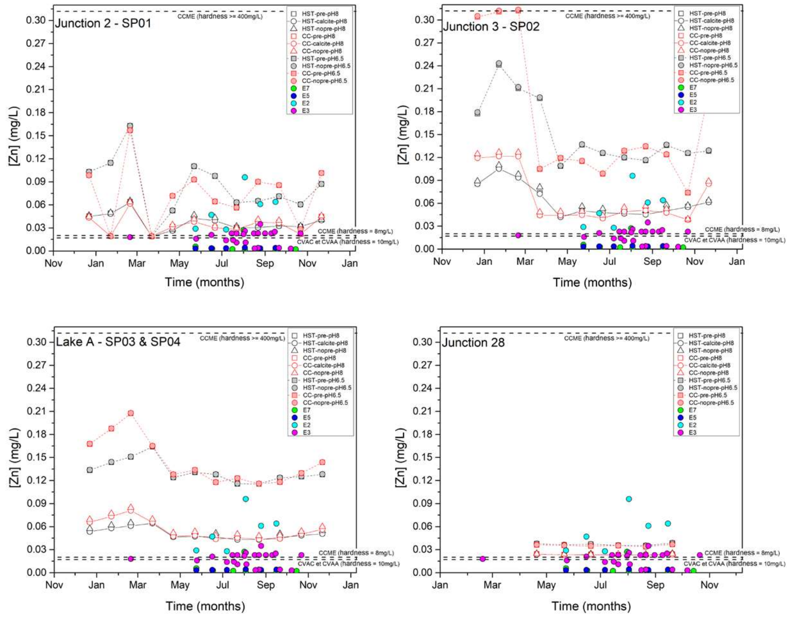

Figure 12 : **Predicted versus baseline dissolved nickel concentrations for all modelled scenarios. Continuous and dashed lines represent scenarios HST/CC for an effluent with a pH of 8 and 6.5, respectively. Federal and provincial guidelines are indicated by dashed horizontal lines.**

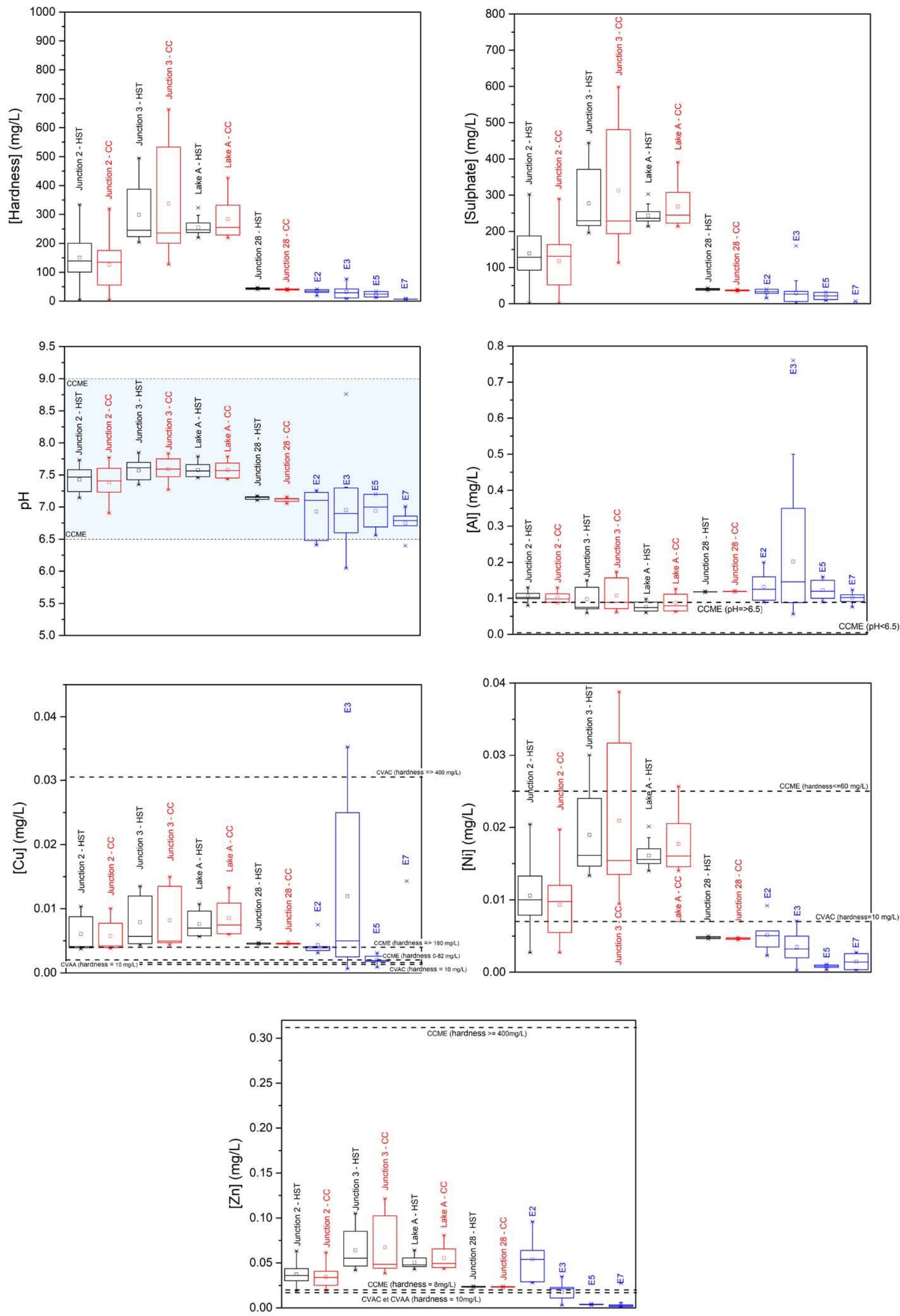

Figure 13 : **Box plot showing predicted vs baseline water quality parameters for HST/CC_calcite_pH8 scenarios. Federal and provincial guidelines are indicated by dashed horizontal lines.**

4. Model Limitations and Assumptions

Geochemical modeling of groundwater using PHREEQC incorporates an unavoidable amount of uncertainty as it is a simplified representation of often complex reaction assemblages. This section describes and discusses the uncertainties in relation to the conceptual model and prediction simulations. Below is a list of model limitations and assumptions:

1. Kinetics for mineral formation should be considered and calibrated with experimental/observable data. Kinetics for mineral precipitation or dissolution are complicated processes that are controlled by multiple factors, such as temperature, water chemistry (pH, redox potential, concentrations of dissolved gases and solutes), the availability of sorbent surfaces or reactive surfaces, and catalysis by biochemical processes. Cravota III (2021) provides a detailed description of the processes that control the kinetic boundaries for mineral precipitation and dissolution in ARD effluents. The main processes are:
   a. Atmosphere exchange (O_2 intake and outgassing of CO_2)
   b. Iron oxidation and reduction
   c. Manganese oxidation
   d. Organic carbon oxidation
   e. Adsorption by hydrous metal oxides

   Given the complexity of the processes that control the kinetic boundaries for mineral precipitation and dissolution, geochemical models must be calibrated with field data, to provide realistic predictions.

   For the simulations developed in this study, a simplistic kinetic boundary for ferrous oxidation was used, based on the work from Palandri and Kharaka (2004), thus generating uncertainty in the model's predictions. Moreover, no kinetic boundaries were defined for other minerals of interest, such as gypsum. Each mineral phase of interest (i.e. minerals expected to precipitate) should be assessed for its kinetic boundaries, and expressions should reflect real conditions.
2. Processes that drive mineral dissolution and precipitation are not linear, and extrapolation over prolonged periods results in uncertainties. The water quality model should be calibrated with data from the monitoring program when the mine is operational.
3. All contact water is assumed to have the same parameter concentrations as the estimated effluent, which was determined through the EDCM.
4. The inputs for the effluent water quality for the predictive water quality model were defined by a pH of 8. The water quality predictions and resulting impacts presented in Chapter 13 are only applicable if the pH is maintained at 8 throughout the life cycle of the mine operations.

5. The EDCM does not distinguish between the several types of materials (e.g., waste rock, ore, tailings, or pit walls).
6. Below detection limit (bdl) values were assumed to be: bdl/√2.
7. Mixing ratios were estimated from the hydrological model.
8. All groundwater discharging to Lake A was considered effluent.
9. Dissolved organic carbon (DOC) was defined as non-reactant; therefore, it only gets diluted.
10. The geochemical model presented here only predicts reactions governed by thermodynamic equilibrium. Kinetic or catalytic reactions (that may be caused by interaction with organic matter and biological activity) were not included; therefore, the model does not provide an accurate prediction for trace element concentrations. No biologically-induced reactions were considered.
11. No evaporation at sedimentation ponds, creeks or lakes was considered.
12. Mineral precipitation was allowed for phases that are likely to precipitate, discarding mineral phases that are kinetically prohibited.
13. Surface complexation was allowed for trace metals onto aluminium and iron precipitates.
14. It is assumed that trace elements are not catalyzing reactions
15. The flow of water at Bibou Creek was allowed during the winter months, mainly resulting from the discharge of water from the sedimentation ponds. This condition applies to Lake A, given that the surface water flow is partially controlled by the discharge of mining effluent. Surface water downstream of Lake A was only allowed to flow from May to October. Water in the winter months (November to April) was assumed to accumulate until the spring melt.
16. Solutions (baseline, predicted, and effluent) were equilibrated with oxygen and CO_2 atmospheric conditions, excepting during winter months.
17. Water quality from X22 and J pits are assumed to be the same as the water quality reported for the 87 pit.
18. Water quality from the dewatering of the pits is assumed to have a mixing ratio of 75%:25% between pit water and contact water, respectively. This mixing ratio was used to account for the contact water contribution that may result from pit wall exposure.
19. Effluent from overburden piles has a water quality similar to that measured in Lake Amont.
20. Solutions originating at SO5, D10b, and D06b were assumed to have similar water quality as those reported for Lake Amont, given that they will only be influenced by overburden materials.
21. Baseline water chemistry was averaged. The average of the major cation and anion composition was used for the model. The 95th percentile for trace metals composition was used for the model.
22. Baseline and EDCM solutions with a balance between cations and anion concentrations greater than ±10% range were corrected by varying calcium concentrations.

23. There are no mineral-water-gas interactions between the effluents with overburden and bedrock materials during the flow path from the effluent until the receiver environment (Lake A). All sources of dissolved species that result from mineral dissolution, cation exchange, or surface complexation (except those minerals that precipitate from the solution) are derived from EDCM.
24. The residual nitrogen content from using explosives is assumed to be 4.5%, consistent with the ranges provided by Mahmood et al. (2017). This factor is variable, and should be calibrated with local data.
25. To preserve a conservative approach, ANFO explosives were assumed in lieu of emulsion explosives.
26. Explosives with a powder factor of 0.31kg/t were assumed for waste rock and ore extraction, according to the feasibility study, resulting in a nitrogen loading of 4.6 g/t when accounting for the tonnage of rock to be extracted. Nitrogen loadings were converted into dissolved concentrations by scaling to the local hydrology of the site.
27. Nitrogen speciation can not be established from existing data. Data available to BluMetric contains limited data from previous operations, and therefore, the nitrogen speciation and concentrations during previous operations could not be evaluated. The geochemical model predicts that nitrite and total ammonia concentrations are negligible, in accordance with the nitrogen speciation at the defined pH and pE conditions. However, the geochemical model presented here only predicts reactions governed by thermodynamic equilibrium, and kinetic or catalytic reactions (that may be caused by interaction with organic matter) were not included; therefore, the model does not offer an accurate prediction of nitrogen speciation, particularly for total ammonia.
28. The nitrogen speciation estimation provided in this document does not apply to reductive conditions that might occur during winter months or leachate that originates from saturated materials (e.g. tailings within the impoundment).
29. The efficiency of the liming plan (as an attenuation measurement, should the pH of the solutions at the sedimentation ponds drop below 8), the amount of lime, and the type of application were not assessed.
30. Existing water chemistry from the open pits has the following distribution of nitrogen species: nitrate (97.32%), nitrite (0.67%), and total ammonia (2.01%). These values were used to calculate nitrogen speciation, as these values are greater and more conservative than what the geochemical model predicts. Nitrogen speciation does not account for un-oxidizing conditions, which may occur during winter months.
31. Selected effluent solutions with a pH of 8 were equilibrated with calcite and dolomite. Results from the model should be calibrated with monitoring data where liming has been applied, or with testing from effluent solutions equilibrated with calcite and dolomite.

5. Closing Statement

The conclusions presented in this report represent our professional opinion and are based upon the work described in this report and any limiting conditions in the terms of reference, scope of work, or conditions noted herein.

The findings presented in this report are based on the water chemistry collected from the baseline studies from 2019 to 2022, and the water quality effluent from the EDCM. Unless otherwise stated, the findings are applicable for year 21 of operations and cannot be extended to previous or future site conditions, or portions of the site that were not investigated directly.

BluMetric Environmental Inc. makes no warranty as to the accuracy or completeness of the information provided by others, or of conclusions and recommendations predicated on the accuracy of that information.

Respectfully submitted,
BluMetric Environmental Inc.

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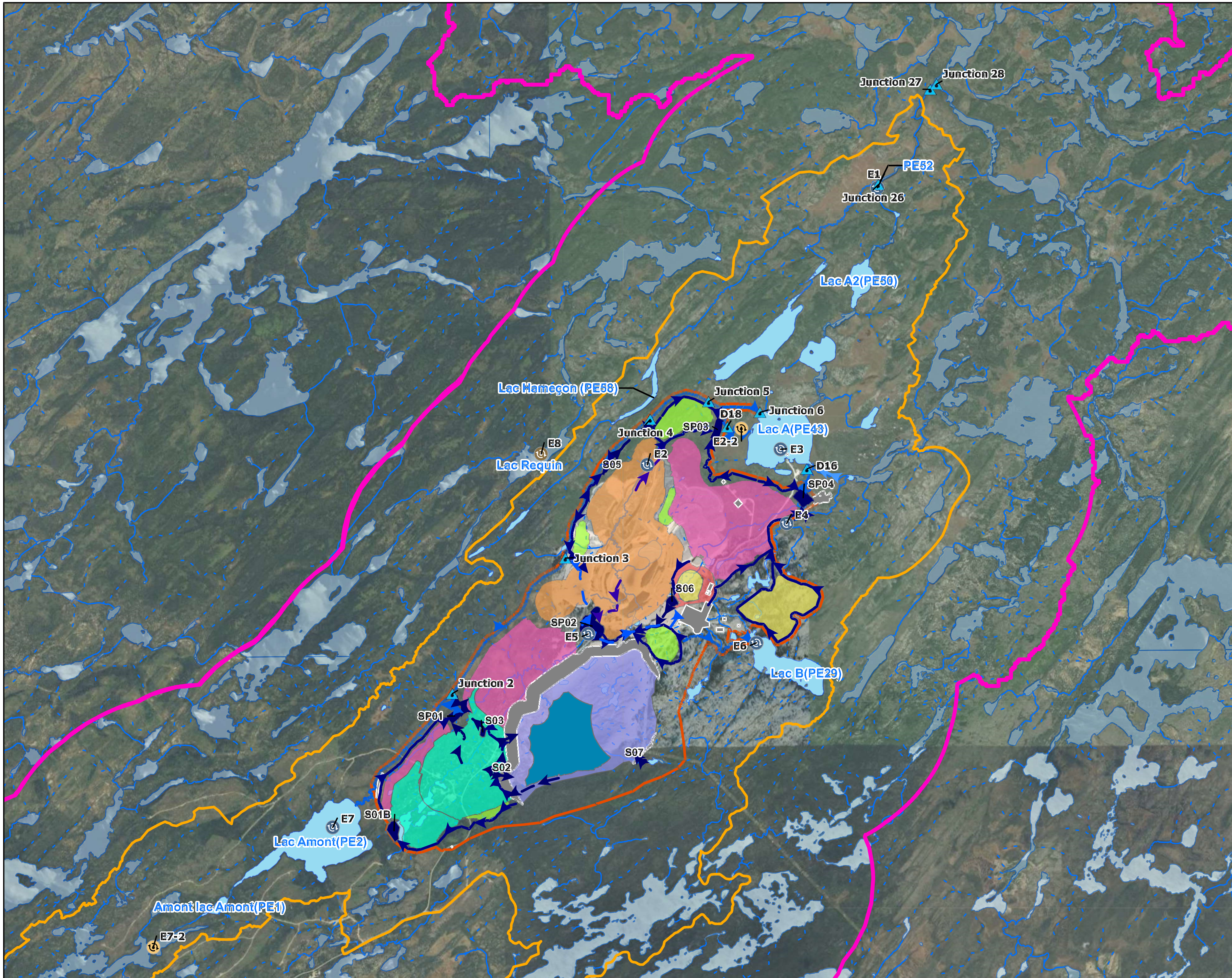
Figures



LÉGENDE / LEGEND

- Zone de développement du projet / Project Development Area
- Zone d'étude locale (Hydrologie) / Local Study Area (Hydrology)
- Zone d'étude régionale (Hydrologie) / Regional Study Area (Hydrology)
- Jonctions / Junctions
- Qualité de l'eau 2019 / Water Quality Sample 2019
- Qualité de l'eau 2022 & 2023 / Water Quality Sample 2022 & 2023
- Qualité de l'eau 2023 / Water Quality Sample 2023

Cours d'eau naturel / Natural Watercourses

- Permanent / Permanent
- Intermittent / Intermittent
- Plan d'eau / Lake

Infrastructure minière projetée - Y21 / Projected Mine Infrastructure - Y21

- Fosse / Pit
- Aire d'entreposage du minerai / Mineral Storage Area
- Halde à mort-terrain / Overburden Storage Area
- Halde à stérile / Waste Rock Storage Area
- Halde à stérile - Super / Waste Rock Storage Area - Super
- Plateforme de la zone de stockage du minerai / Mineral Stocking Platform Area
- Parc à résidus miniers / Tailings Storage Facility
- Pipeline d'eau propre / Clean Water Pipeline
- Fossé d'eau de contact / Contact Water Ditch
- Pipeline d'eau de contact / Contact Water Pipeline
- Direction écoulement / Flow Direction
- Canal de dérivation / Diversion channel
- Assèchement des fosses / Pit Dewatering
- Bassins de sédimentation / Sedimentation Basin
- Bassin de résidus miniers / Tailings Pond
- Autre infrastructure / Other Infrastructure

RÉV.	DESCRIPTION	AA/MM/YY	BY	VERIF.
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RÉFÉRENCES/REFERENCES

Proposed Infrastructure: 167040485_PublicationDonnes_Infrastructures_Poly, Stantec, 25 January 2024
Base Map: Bing, 06 June 2023

NOTES

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Troilus Gold Corp.

PROJET/PROJECT

Étude d'impact sur l'environnement et le milieu social pour le projet de mine Troilus / Environmental and Social Impact Assessment for the Troilus Mine Project

TITRE/TITLE

Année 21 infrastructures projetées / Year 21 Proposed Infrastructure

BluMetric Environment — Stantec

NO. PROJET / PROJECT NO.	DATE
240433-03 / 167040485	05/ 14/ 2025
CONÇU / CHECKED: K. Rausis	RÉVISÉ / VERIFIED: C. Gardois
DESSINÉ / DRAWN: M. Baker	Figure No.: A — ED./REV.: 0

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Tables

Table A: General Chemistry Baseline Conditions

Regulation		Hardness mg/L	pH n/a	Alk mg/L	DOC mg/L	F mg/L	Si mg/L	Sulphate mg/L	Cl mg/L	Nitrate as N mg/L	Nitrite as N mg/L	Total Ammonia as N mg/L
MDMER												0.5[a]
CCME (long-term)			6.5-9							2.935483871	0.059956522	0.019[a]
CCME (long-term)												
CCME (long-term)												
Location	**Time**	**Baseline**										
Llac Amont (E7)	6/27/2022	6.68430172	6.86	5.8018461	8.1497745	1.117E-06	1.491562	7.601612	1.197E-06	0.014142136	0.014142136	0.014142136
	8/11/2022	7.16996924	6.79	7.1021951	8.8580394	1.117E-06	1.435322	0.8001702	1.41E-05	0.014142136	0.014142136	0.021037425
	10/25/2022	7.06864311	7.01	7.0022453	16.957899	1.117E-06	1.89041	1.4358088	1.197E-06	0.014142136	0.014142136	0.014142136
	7/26/2023	8.56757592	6.76	8.2025944	7.6011894	1.117E-06	1.400293	1.7003581	4.231E-06	0.014142136	0.014142136	0.014142136
	8/28/2023	6.7143544	6.94	9.2028937	7.1023995	1.117E-06	1.240285	1.0001767	1.197E-06	0.014142136	0.014142136	0.014142136
	6/3/2019	6.73412894	6.4	3.4010527	8.8779096	7.369E-07	1.491562	1.0001767	4.795E-06	0.014142136	0.014142136	0.089998719
	6/26/2019	6.69295274	6.71	4.301332	8.7781995	1.117E-06	1.491562	1.4357128	4.513E-06	0.014141458	0.014142136	0.014142136
	7/17/2019	6.77531515	6.71	4.5013969	9.1771596	0.0150004	1.491562	0.81017	0.2199885	0.014141458	0.014142136	0.014142136
	8/13/2019	6.15239345	6.82	3.2009828	8.3791197	0.0199996	1.491562	0.8301697	0.1699898	0.014141458	0.014142136	0.014142136
	9/4/2019	7.27478831	6.86	5.1015965	9.0774495	0.0160003	1.491562	0.9501967	0.2199885	0.014141458	0.014142136	0.014142136
	9/26/2019	7.31596451	6.4	2.3007084	8.4789495	0.0140003	1.491562	0.8001606	0.1599894	0.014141458	0.014142136	0.014142136
Llac A (E3)	8/11/2022	10.4537264	6.57	5.6017962	10.474109	0.0212136	1.590343	6.101347	0.042423	0.014141458	0.01707423	0.109999679
	10/18/2022	9.85057197	6.83	6.8021954	10.474109	0.0212136	2.120477	5.1010742	0.042423	0.014141458	0.01707423	0.014142136
	7/27/2023	12.7553454	6.7	7.3023951	10.474109	0.0212136	1.580369	7.6017081	0.3599948	0.014141458	0.01707423	0.014142136
	8/27/2023	9.34793558	6.79	7.6024449	10.474109	0.0212136	1.76375	6.6014353	0.042423	0.014141458	0.01707423	0.126632131
E4	6/3/2019	5.35684891	6.26	2.1006536	8.5786596	0.0370013	1.491562	2.2004464	0.2599868	0.014141458	0.014142136	2.299970378
	6/26/2019	7.6427948	6.55	3.4010577	8.3792394	0.0440003	1.491562	2.9206082	0.4199762	0.014141458	0.014142136	0.01999956
	7/17/2019	8.30691271	6.3	5.7017961	9.1772793	0.0530017	1.491562	3.5307814	0.7599771	0.090012513	0.014142136	0.014142136
	8/13/2019	5.60653545	6.3	1.6004989	11.97	0.0340014	1.491562	1.7203385	0.299985	0.090012513	0.014142136	0.0249998
	9/4/2019	7.14332164	6.75	4.6014368	8.1796995	0.0540011	1.491562	2.2004464	0.6099527	0.090012513	0.014142136	1.099996794
	9/25/2019	6.8936351	6.67	3.9012123	8.3791197	0.0440003	1.491562	2.5404988	0.5299775	0.090012513	0.014142136	0.036998975
Pit Dewatering												
Pit J4	Values used	422.980504	7.39387	60.931871	1.9365066	0.2600121	11.63976	382.05944	4.7230035	1.982840888	0.013670876	0.040867338
Pit 87	Values used	247.736666	7.4489	61.648587	1.9361475	0.2599362	11.63796	213.23399	4.7222945	1.981439983	0.013661218	0.040838465

Notes: [a] Regulatory criteria is for un-ionized ammonia

Table B: Dissolved Metals. Baseline Conditions

Regulation[a] / Location	Time	Al mg/L	As mg/L	B mg/L	Ba mg/L	Be mg/L	Cd mg/L	Ca mg/L	Cr mg/L	Co mg/L	Cu mg/L	Fe mg/L	Li mg/L	Mg mg/L	Mn mg/L	Hg mg/L	Mo mg/L	Ni mg/L	P mg/L	Pb mg/L	K mg/L	Na mg/L	Sr mg/L	Se mg/L	Sb mg/L	Tl mg/L	Ti mg/L	U mg/L	Zn mg/L	Sn mg/L
MDMER			0.1								0.1							0.25		0.08									0.4	
Directive 019 (2025)			0.1								0.1	3						0.25		0.08									0.4	
CVAC (hardness 10mg/L)			0.15		0.038	0.000138	0.00005			0.1	0.0013	0.65	0.44		0.26	0.00091	3.2	0.007		0.00017			21	0.005	0.24	0.0072		0.014	0.017	
CVAA (hardness 10mg/L)			0.34		0.11	0.00124	0.0002			0.37	0.0016	3.4	0.91		0.6	0.0016	29	0.07		0.004			40	0.062	1.1	0.047		0.32	0.017	
CVAC (hardness 40mg/L)					0.165	0.001425046	0.00014				0.0043				0.86			0.024		0.00099									0.055	
CVAA (hardness 40mg/L)					0.47	0.012825099	0.0008				0.0059				1.9			0.22		0.025									0.055	
CVAC (hardness 400mg/L)					1.911	0.068822	0.0076				0.0305				6.52			0.169		0.01858									0.388	
CVAA (hardness 400mg/L)					5.45	0.61939	0.0087				0.0517				14.1			1.52		0.477									0.388	
CCME (long-term)		0.005[b]	0.005	1.5			0.00004[d]				0.002[g]	0.3			0.23[i]	0.000026	0.073	0.025[k]		0.001[m]				0.001		0.0008		0.015	0.02[o]	
CCME (long-term)		0.1[c]					0.00037[e]				0.004[h]				1.2[j]			0.15[l]		0.007[n]									0.312[p]	
CCME (long-term)							0.00007[f]																						0.037[q]	
Location	**Time**																													
Lac Amont (E7)	6/27/2022	0.091103	0.000470013	0.070706	0.00311	4.20013E-06	2.90017E-05	2.380072	0.000183827	6.74929E-05	0.00078	0.088498	0.000354	0.180005	0.00416	2.60005E-06	9.00117E-05	0.000280026	0.00671263	0.000150005	0.353011	0.456002	0.00551	0.000140004	2.10024E-05	0.0003536	0.002121	1.80005E-05	0.003	3.53554E-06
	8/11/2022	0.124002	0.000279008	0.070706	0.00345	6.00013E-06	1.40012E-05	2.530044	0.000237633	2.42401E-05	0.00074	0.124998	0.000354	0.207006	0.00674	2.50015E-06	0.000130012	2.12018E-05	0.00671263	0.000220005	0.376008	0.543018	0.00661	0.00036001	6.50064E-05	0.0003536	0.002121	2.20005E-05	0.027296	3.53554E-06
	10/25/2022	0.102004	0.000440015	0.070706	0.00303	4.20013E-06	7.00036E-06	2.430089	0.000255566	1.85367E-05	0.00056	0.166999	0.000354	0.243009	0.00576	2.40006E-06	0.000180021	0.002760233	0.00420004	0.000190007	0.380012	0.556008	0.00667	3.54009E-05	5.10053E-05	0.0003536	0.002121	3.00012E-05	0.0023	3.53566E-06
	7/26/2023	0.104003	0.000150001	0.070706	0.00391	4.20013E-06	9.00043E-06	2.900084	0.000165894	3.23207E-05	0.0143	0.093099	0.000354	0.322017	0.00538	1.60005E-06	0.000110016	0.000440036	0.00590019	0.000130003	0.347009	0.645024	0.009331	6.00017E-05	4.00042E-05	0.0003536	0.002121	3.80013E-05	0.0024	3.53554E-06
	8/28/2023	0.076002	0.000340009	0.070706	0.00387	4.20013E-06	1.30007E-05	2.270058	0.002008661	3.89731E-05	0.00056	0.104	0.000354	0.254012	0.00505	1.80003E-06	0.000630084	0.002380193	0.00671263	7.00025E-05	0.398998	0.59601	0.00804	3.54009E-05	1.60017E-05	0.0003536	0.002121	2.50002E-05	0.0015	3.53554E-06
	6/3/2019	0.120003	0.000230002	0.070706	0.0036	4.20004E-06	2.40015E-05	2.400031	0.000188309	7.12939E-05	0.002161	0.189996	0.000354	0.180003	0.028001	2.20007E-06	8.50107E-05	0.001176274	0.00560006	0.000180003	0.490019	0.470003	0.0064	3.54009E-05	4.30044E-05	0.0003536	0.002121	1.90004E-05	0.005799	3.53554E-06
	6/26/2019	0.110001	0.000170005	0.070706	0.0031	4.20004E-06	1.30007E-05	2.400031	0.000112088	1.94871E-05	0.00064	0.109998	0.000354	0.170004	0.0064	2.20007E-06	5.20068E-05	0.001176274	0.00740025	8.8002E-05	0.490019	0.470003	0.0053	3.54009E-05	2.10024E-05	0.0003536	0.002121	1.80005E-05	0.0034	3.53554E-06
	7/17/2019	0.100002	0.000210005	0.070706	0.0035	4.20004E-06	9.90041E-06	2.400031	0.000121057	2.09128E-05	0.002	0.109998	0.000354	0.190004	0.0045	2.20007E-06	6.60078E-05	0.001176274	0.01270017	9.20009E-05	0.509998	0.520006	0.0055	3.54009E-05	3.60032E-05	0.0003536	0.002121	1.90004E-05	0.0033	3.53554E-06
	8/13/2019	0.085003	0.000240004	0.070705	0.003	4.20004E-06	8.50041E-06	2.200042	9.86366E-05	2.37645E-05	0.001	0.109998	0.000354	0.160002	0.0058	2.20007E-06	6.10079E-05	0.001176274	0.00609997	8.70012E-05	0.400015	0.369997	0.0059	3.54009E-05	1.70013E-05	0.0003536	0.002121	1.80002E-05	0.0013	3.53554E-06
	9/4/2019	0.110004	0.000280004	0.070706	0.0035	4.20004E-06	2.50009E-05	2.60006	0.000112088	2.09128E-05	0.00061	0.139998	0.000354	0.190004	0.0067	2.20007E-06	5.70068E-05	0.001176274	0.00760003	0.000200004	0.459991	0.510005	0.0069	3.54009E-05	0.000160017	0.0003536	0.002121	2.20005E-05	0.0017	3.53554E-06
	9/26/2019	0.097001	0.000260008	0.070705	0.0041	4.20004E-06	7.8003E-06	2.60006	0.000112088	1.71105E-05	0.00042	0.139998	0.000354	0.200003	0.0058	2.20007E-06	6.20077E-05	0.001176274	0.00420004	8.8002E-05	0.430003	0.480003	0.0067	3.54009E-05	1.70013E-05	0.0003536	0.002121	2.00004E-05	0.001	3.53554E-06
Lac A (E3)	8/11/2022	0.134004	4.62012E-05	0.070706	0.0054	7.00021E-06	3.2002E-05	3.53011	0.000322823	7.22462E-05	0.0019	0.364997	0.0006	0.398019	0.0118	3.00002E-06	0.000160025	0.000260024	0.00515001	9.90022E-05	0.554023	0.916027	0.0137	3.53567E-05	5.20061E-05	0.00035356	0.002121	0.000101003	0.021897	3.53566E-06
	10/18/2022	0.056602	0.000290007	0.070706	0.00312	4.24276E-06	1.30007E-05	3.300103	0.000197278	1.75861E-05	0.00065	0.187997	0.000354	0.391019	0.00485	1.20003E-06	0.000150018	0.000460039	0.00520018	0.000140005	0.514025	0.828023	0.0123	3.53567E-05	2.70027E-05	0.00035356	0.002121	9.50021E-05	0.0031	3.53566E-06
	7/27/2023	0.081603	8.00013E-05	0.070707	0.00544	6.00022E-06	1.00006E-05	4.150077	0.000188314	4.13512E-05	0.035301	0.220001	0.0006	0.581011	0.0108	2.00006E-06	0.000170023	0.007080772	0.00590019	0.000130006	0.880025	1.420055	0.0191	3.53567E-05	4.00042E-05	0.00035356	0.002121	0.000117003	0.014299	3.53566E-06
	8/27/2023	0.063501	0.00027001	0.070706	0.00538	4.24276E-06	1.20002E-05	2.98008	0.00232251	6.22634E-05	0.00094	0.254	0.0006	0.46301	0.00968	1.40004E-06	0.000760106	0.003210294	0.00515001	0.000123004	0.686019	1.190042	0.0167	3.53567E-05	3.10037E-05	0.00035356	0.002121	8.90038E-05	0.0034	3.53566E-06
E4	6/3/2019	0.190004	0.000170005	0.070706	0.0046	7.07123E-06	5.70029E-05	1.700029	0.000242115	5.22835E-05	0.0053	0.219996	0.000354	0.270004	0.013001	2.18001E-06	0.000120014	0.000560047	0.00620002	0.000460005	0.490019	0.650013	0.01	7.07118E-06	2.60031E-05	0.00035356	0.002121	8.2001E-05	0.008599	3.53566E-06
	6/26/2019	0.160003	0.000180007	0.070706	0.0038	5.00014E-06	4.24284E-06	2.500066	0.000206248	7.60472E-05	0.0036	0.229998	0.000354	0.340003	0.013001	2.18001E-06	0.000130012	0.000670044	0.00650015	0.000130003	0.549996	0.940029	0.013	5.00014E-06	2.90032E-05	0.00035356	0.002121	9.70015E-05	0.0032	3.53566E-06
	7/17/2019	0.120003	0.000140006	0.070706	0.0048	3.53566E-06	7.00036E-05	2.700055	0.00014796	9.50603E-05	0.0047	0.249996	0.000354	0.380009	0.016	2.18001E-06	0.000160025	0.000660066	0.02890069	0.000220005	0.580023	1.100037	0.016	3.53559E-06	2.30029E-05	0.00035356	0.002121	0.000120002	0.005299	3.53566E-06
	8/13/2019	0.230004	0.000220007	0.070706	0.0051	1.30001E-05	2.50009E-05	1.800023	0.000282469	7.60472E-05	0.0082	0.289998	0.000354	0.270004	0.0089	2.18001E-06	7.40091E-05	0.000670044	0.00920014	0.000150002	0.419994	0.550007	0.011	7.07118E-06	5.60059E-05	0.00035356	0.002121	8.10012E-05	0.005299	3.53566E-06
	9/4/2019	0.170005	0.000180007	0.070706	0.0047	7.07123E-06	2.3001E-05	2.300036	0.000215212	7.60472E-05	0.0044	0.299994	0.000354	0.340003	0.011	2.18001E-06	0.000110016	0.000540044	0.00770008	0.000150002	0.540026	0.910027	0.014	7.07126E-06	5.80065E-05	0.00035356	0.002121	0.000130002	0.0039	3.53566E-06
	9/25/2019	0.170003	0.000150001	0.070706	0.0053	7.07123E-06	1.10005E-05	2.200042	0.000215212	5.22835E-05	0.0037	0.239994	0.000354	0.340003	0.0063	2.18001E-06	0.000110016	0.000420033	0.00720016	0.000120002	0.520007	0.840023	0.014	7.07118E-06	1.5002E-05	0.00035356	0.002121	0.000100003	0.0028	3.53566E-06
Pit J4	Values used	0.10951	0.005625264	0.089498	0.010784	0.000353809	0.001162923	149.6953	0.000552719	0.001993584	0.006689	0.019106	0.0493	11.94542	0.066722	2.40026E-05	0.00932327	0.036182133	2.7556E-05	0.001343547	19.74816	10.48448	0.824644	0.0019102	0.002529564	0.00024258	0.212644	0.019401022	0.135971	7.07607E-07
Pit 87	Values used	0.109494	0.006733654	0.089482	0.015609	0.000353746	0.001153143	79.25024	0.000552459	0.001992687	0.016389	0.018887	0.049292	12.10511	0.066612	2.39986E-05	0.009321638	0.023415145	4.642E-05	5.54737E-05	19.74503	10.48287	0.824504	0.001909884	0.002529077	0.00024254	0.212606	0.01939769	0.19191	7.07488E-07

Notes: [a] Regulation criteria applies to total concentrations.

CCME criteria for:

Aluminium depends on pH conditions. Values are provided for reference given [b] pH<6.5 and [c] pH>=6.5

Cadmium depends on hardness concentrations. Values are provided for reference given a hardness of [d] 0--17, [e] >=280 and [f] 40 mg/L.

Copper depends on hardness concentrations. Values are provided for reference given a hardness of [g] 0--82 and [h] >=180 mg/L.

Manganese depends on hardness concentrations and pH conditions. Values are provided for reference given a hardness of [i] 10-24 and [j] >=670 mg/L and pH of [i] 6.7-6.9 and [j] 6.5-6.7.

Nickel depends on hardness concentrations. Values are provided for reference given a hardness of [k] <=60 and [l] >=180 mg/L.

Lead depends on hardness concentrations. Values are provided for reference given a hardness of [m] <=60 and [n] >=180 mg/L.

Zinc depends on hardness and DOC concentrations, and pH conditions. Values are provided for reference given a pH of [o,p,q] 6.5-6.7, [o,p,q] DOC 8 mg/L and hardness [o] 8, [p] 399, and [q] 38 mg/L.

Table C: General Chemistry Historical Conditions. Effluent solutions at sedimentation ponds in equilibrium with calcite. Mineral precipitation was allowed. Effluent pH of 8.

Regulation		Hardness mg/L	pH n/a	Alk mg/L	DOC mg/L	F mg/L	Si mg/L	Sulphate mg/L	Cl mg/L	Nitrate as N mg/L	Nitrite as N mg/L	Total Ammonia as N mg/L
MDMER												0.5[a]
CCME (long-term)			6.5-9							2.935483871	0.059956522	0.019[a]
Station	**Time**						**Effluent**					
Effluent (pH 8)	n/a	913.677787	8	126.1225	4.465648	1.0015388	34.733625	795.6938	40.05141	6.575847907	0.04533778	0.1355315
	n/a	811.387772	7.7692	22.55273	4.465648	0.18604	24.858573	795.5977	40.05141	6.575987997	0.045338746	0.135534387
	n/a	876.0056	7.13599	88.37278	4.465648	0.1860476	34.733625	795.5881	40.05141	6.569263653	0.045292384	0.135395795
							Year 21 Historical Conditions					
Junction 2	November	99.6492365	7.1447	13.84088	8.603318	0.0243066	5.1088297	88.3435	4.43515	0.76137784	0.005249389	0.015692376
	December	160.676592	7.20993	19.72481	8.339858	0.0368702	7.4469969	143.9267	7.234282	1.218086867	0.00839821	0.025105377
	January	196.962035	7.23524	23.21024	8.152647	0.0443955	8.8319676	176.9809	8.899014	1.48958225	0.01027006	0.030701032
	February	223.576164	7.24987	25.76404	8.009007	0.0499259	9.8474126	201.2265	10.11991	1.688650845	0.011642556	0.034803935
	March	334.130777	7.28908	36.37164	7.408592	0.0729273	14.064814	301.9454	15.1921	0.839072029	0.005785058	0.017293692
	April	4.56814635	7.57181	5.012157	9.198825	0.0059108	1.491923	1.670099	0.069996	0.327447527	0.002257617	0.006748857
	May	80.314209	7.61211	6.009854	7.593768	0.0207767	3.5157228	76.59824	3.845262	0.660666782	0.004555027	0.013616671
	June	203.295827	7.58734	8.654946	6.808057	0.0483965	7.0678574	197.6338	9.940535	1.654188583	0.011404953	0.03409365
	July	174.779261	7.50428	8.231623	7.349939	0.04211	6.2975613	169.4594	8.521117	1.424440169	0.009820932	0.029358421
	August	101.474316	7.4321	6.648342	7.805517	0.0256497	4.1780452	97.31839	4.888201	0.832109531	0.005737055	0.017150192
	September	105.545295	7.57839	6.71646	7.743393	0.026537	4.290345	101.3337	5.09062	0.864960753	0.00596355	0.017827272
	October	117.411772	7.73346	7.122716	7.954304	0.0292955	4.6752528	112.9185	5.673418	0.961202924	0.006627101	0.019810871
Junction 3	November	245.533032	7.3497	29.80332	7.584551	0.0600654	10.650155	219.9678	10.88492	1.84793374	0.012740747	0.038086835
	December	245.094613	7.36168	31.11428	7.448213	0.0687248	10.692215	219.2377	10.59281	1.850595459	0.012759098	0.038141694
	January	347.113934	7.44839	44.21657	6.479481	0.1048351	14.614596	310.6004	14.75145	2.615209389	0.018030798	0.053900768
	February	495.012067	7.47691	59.41986	5.669471	0.1358956	20.219372	444.3736	21.4749	3.714219334	0.025608022	0.07655191
	March	425.472163	7.42605	51.07052	6.141448	0.1181929	17.598442	382.3092	18.45137	2.513643779	0.017330545	0.05180745
	April	387.528775	7.85021	21.51444	6.799199	0.0951687	12.40345	371.051	18.47477	1.026022797	0.007074007	0.021146841
	May	203.766341	7.75232	10.91545	6.34829	0.0485105	6.9212487	195.8279	9.822486	1.638638538	0.011297742	0.033773156
	June	261.98928	7.69357	10.99393	5.735426	0.0631336	8.6204667	254.4053	12.73506	2.119989484	0.01461646	0.043694039
	July	236.147714	7.61657	10.21536	6.416878	0.0572783	7.9715433	229.2952	11.47871	1.915457359	0.013206295	0.03947853
	August	223.090873	7.61294	10.57822	6.619889	0.0548693	7.5984123	215.8852	10.78637	1.806466953	0.01245485	0.037232183
	September	216.788152	7.69726	10.95625	6.589964	0.0530891	7.3875122	209.1226	10.45137	1.750570845	0.01206947	0.036080137
	October	258.626939	7.83949	13.87126	6.758382	0.0630861	8.6204667	248.4688	12.40856	2.076001068	0.014313178	0.042787416
Junction 4	November	245.141735	7.34904	29.75007	7.572342	0.0597234	10.633331	219.622	10.8672	1.844991839	0.012720464	0.038026201
	December	245.040572	7.36099	31.10187	7.446657	0.0684626	10.689811	219.1897	10.59069	1.850175188	0.012756201	0.038133032
	January	347.102926	7.4478	44.21017	6.479361	0.1045881	14.614596	310.5908	14.75145	2.615209389	0.018030798	0.053900768
	February	495.012067	7.47644	59.41436	5.669471	0.1356486	20.219372	444.3736	21.4749	3.714219334	0.025608022	0.07655191
	March	425.472163	7.42556	51.06501	6.141448	0.1179459	17.598442	382.3092	18.45137	3.201207936	0.022071019	0.06597849
	April	387.518767	7.84795	21.50894	6.799199	0.0949217	12.40345	371.051	18.47477	3.08955581	0.021301223	0.063677284
	May	199.663233	7.74828	10.69088	6.220809	0.0472927	6.7824512	191.8991	9.625384	1.605717271	0.011070763	0.033094633
	June	256.728299	7.69028	10.76816	5.620514	0.0616232	8.4474204	249.3045	12.48017	2.077542063	0.014323802	0.042819177
	July	232.432902	7.61309	10.04914	6.315971	0.0561308	7.8465654	225.6834	11.29827	1.885337902	0.012998633	0.038857753
	August	219.932482	7.60958	10.42311	6.526283	0.0538472	7.4908593	212.8305	10.63358	1.780970482	0.012279063	0.036706689
	September	213.517675	7.68798	10.78618	6.490972	0.0520461	7.2763541	205.9815	10.29433	1.724233831	0.011887887	0.035537318
	October	255.952913	7.83627	13.72286	6.688836	0.0621913	8.5315401	245.904	12.28059	2.054707312	0.014166366	0.042348541
Junction 5	November	244.979612	7.34835	29.7264	7.567793	0.0594422	10.626722	219.4875	10.86082	1.843731025	0.012711771	0.038000215
	December	245.009549	7.36031	31.09351	7.445939	0.0682119	10.68861	219.1705	10.58962	1.850035097	0.012755235	0.038130145
	January	347.092918	7.44722	44.20416	6.479241	0.1043411	14.614596	310.5908	14.7511	2.615209389	0.018030798	0.053900768
	February	495.00206	7.47598	59.40885	5.669471	0.1354016	20.219372	444.3736	21.4749	3.714219334	0.025608022	0.07655191
	March	425.462155	7.42507	51.05901	6.141448	0.1177008	17.598442	382.3092	18.45137	3.201207936	0.022071019	0.06597849
	April	387.50876	7.84569	21.50338	6.799199	0.0946766	12.40345	371.051	18.47477	3.08955581	0.021301223	0.063677284
	May	198.143082	7.74447	10.60399	6.173528	0.0466867	6.7307777	190.439	9.552357	1.593529398	0.010986733	0.032843434
	June	254.77382	7.68648	10.68092	5.5779	0.0609089	8.3837298	247.4121	12.38517	2.061711837	0.014214659	0.042492908
	July	231.039848	7.60927	9.983474	6.278145	0.0555494	7.7996988	224.3385	11.23091	1.874130662	0.012921364	0.038626766
	August	218.743583	7.60592	10.3616	6.491211	0.0533114	7.450602	211.6874	10.57651	1.771444329	0.012213384	0.03651035
	September	212.303756	7.69007	10.71916	6.453985	0.0515047	7.2348951	204.8095	10.23583	1.714427496	0.011820276	0.035335204
	October	254.942147	7.83292	13.6635	6.662622	0.0617011	8.4978923	244.9434	12.23273	2.046582064	0.014110346	0.042181075
Junction 6	November	244.827497	7.34767	29.70267	7.563125	0.0591591	10.620112	219.353	10.85408	1.842610301	0.012704044	0.037977116
	December	244.977525	7.35962	31.0852	7.44522	0.0679592	10.688009	219.1513	10.58856	1.849895007	0.012754269	0.038127257
	January	347.082911	7.44664	44.19815	6.479122	0.1040923	14.613995	310.5812	14.7511	2.615209389	0.018030798	0.053900768
	February	494.992052	7.47551	59.40334	5.669471	0.1351565	20.219372	444.3736	21.4749	3.714219334	0.025608022	0.07655191
	March	425.452148	7.42459	51.0535	6.141448	0.1174538	17.598442	382.3092	18.45137	3.201207936	0.022071019	0.06597849
	April	387.50876	7.84344	21.49783	6.799199	0.0944297	12.40345	371.051	18.47477	3.08955581	0.021301223	0.063677284
	May	196.623931	7.74065	10.51776	6.126485	0.0460844	6.679705	188.9884	9.479685	1.581341525	0.010902703	0.032592236
	June	252.830349	7.68266	10.59428	5.535527	0.0602002	8.3200392	245.539	12.29122	2.046021702	0.014106482	0.042169526
	July	229.647795	7.60545	9.918258	6.24056	0.05497	7.7528321	222.9937	11.16356	1.862923423	0.012844095	0.038395779
	August	217.56469	7.60226	10.30044	6.456379	0.0527795	7.4103447	210.5539	10.51979	1.761918175	0.012147705	0.036314011
	September	211.079829	7.68665	10.65249	6.417237	0.0509651	7.1934361	203.6376	10.17734	1.704621162	0.011752665	0.035133091
	October	253.94239	7.82958	13.60439	6.636407	0.0612129	8.4648452	243.9828	12.18452	2.038596905	0.014055291	0.042016497
OutletSP04	November	2.75923723	6.49017	3.052154	9.088103	0.0443328	1.491923	2.519462	0.479958	0.050969125	0.000351411	0.001050499
	December	2.75923723	6.49017	3.052154	9.088103	0.0443328	1.491923	2.519462	0.479958	0.050969125	0.000351411	0.001050499
	January	2.75923723	6.49017	3.052154	9.088103	0.0443328	1.491923	2.519462	0.479958	0.050969125	0.000351411	0.001050499
	February	2.75923723	6.49017	3.052154	9.088103	0.0443328	1.491923	2.519462	0.479958	0.050969125	0.000351411	0.001050499
	March	2.75923723	6.49017	3.052154	9.088103	0.0443328	1.491923	2.519462	0.479958	0.050969125	0.000351411	0.001050499
	April	2.75923723	7.04409	2.183416	9.088103	0.0443328	1.491923	2.519558	0.479958	0.064734418	0.000446317	0.001334209
	May	776.554412	7.91436	21.51619	4.663871	0.1795615	23.759609	761.5733	38.35336	6.290063294	0.043367412	0.129641337
	June	794.084678	7.86843	22.03742	4.564041	0.1826981	24.312997	778.7008	39.2077	6.430574062	0.044336176	0.132537334
	July	785.482168	7.82335	21.78041	4.612999	0.1811593	24.04141	770.2955	38.78939	6.361649537	0.04386097	0.131116765
	August	752.030855	7.78119	20.78456	4.803561	0.1751729	22.985708	737.6255	37.15869	6.093656418	0.042013267	0.125593293
	September	786.453904	7.89875	21.81089	4.607492	0.1813341	24.072054	771.2465	38.83902	6.369494605	0.043915059	0.131278456
	October	785.233981	7.98086	21.77555	4.614435	0.1811156	24.033599	770.0554	38.77876	6.359688271	0.043847448	0.131076342
Lake A	November	241.16463	7.51747	15.98167	6.728816	0.0624686	8.7826975	228.7573	11.47765	1.914476725	0.013199534	0.039458319
	December	247.174174	7.4789	18.0669	6.776816	0.0638555	9.1960858	232.8783	11.6471	1.949779531	0.013442932	0.040185927
	January	259.254319	7.46859	20.22546	6.736118	0.0670891	9.7608895	243.0606	12.11681	2.034814462	0.014029213	0.041938539
	February	281.883463	7.46654	23.64883	6.638801	0.0728038	10.742086	262.6473	13.04879	2.197459528	0.015150584	0.045290735
	March	297.193046	7.45683	26.03921	6.584458	0.0765465	11.42646	275.8171	13.67555	2.306870206	0.015904926	0.047545744
	April	323.057704	7.71107	24.91914	6.619051	0.0814766	11.769548	302.9252	15.04285	2.529614096	0.017440654	0.052136606
	May	239.469338	7.68082	13.11695	6.346494	0.064283	8.3344597	229.7467	11.56485	1.921060979	0.013244929	0.039594023
	June	253.863167	7.59621	11.24243	6.075613	0.068039	8.5748017	245.9808	12.40785	2.053166317	0.014155741	0.04231678
	July	246.350456	7.57107	10.18893	6.182864	0.0660498	8.3098247	239.4488	12.08455	1.999371566	0.013784849	0.041208044
	August	220.257719	7.55719	9.436928	6.363851	0.0601983	7.5263097	213.9737	10.79665	1.790496636	0.012344742	0.036903027
	September	219.965511	7.64646	9.492033	6.389706	0.0599818	7.5010738	213.6278	10.77964	1.787694826	0.012325424	0.036845281
	October	235.956662	7.79151	10.67752	6.465955	0.062898	7.964333	228.6036	11.51522	1.911394735	0.013178284	0.039394797
Junction 26	May	186.784459	7.45108	11.93287	7.061103	0.0501235	6.8857983	178.0184	8.946162	1.497147136	0.010322217	0.030856948
	June	200.078469	7.39069	9.884875	6.749165	0.0539289	7.0468274	193.2823	9.746978	1.621127226	0.011177009	0.033412239
	July	194.003851	7.35263	9.054746	6.835588	0.0523235	6.8341248	187.9798	9.484293	1.577418991	0.010875658	0.032511391
	August	176.281447	7.34016	8.522164	6.941642	0.0484592	6.2963595	170.7082	8.610451	1.435787499	0.009899167	0.029592295
	September	174.995484	7.42722	8.543235	6.975877	0.0480109	6.2470894	169.4018	8.544868	1.425000531	0.009824795	0.029369971
	October	192.59284	7.5677	9.602343	6.977912	0.0515731	6.7518076	186.0874	9.371208	1.562709489	0.010774242	0.032208221
Junction 27	May	188.982125	7.44806	12.51791	7.093901	0.0501729	7.0179864	179.6802	9.021316	1.511156186	0.010418803	0.031145682
	June	194.488238	7.37209	9.738829	6.819189	0.0522513	6.8882017	187.8069	9.470468	1.576158176	0.010866966	0.032485405
	July	188.549725	7.34659	8.931873	6.903458	0.0506839	6.6809067	182.6389	9.214164	1.533570665	0.010573342	0.031607655
	August	171.69898	7.32003	8.422014	7.001732	0.0470248	6.1683774	166.203	8.382862	1.398859644	0.009644565	0.028831194
	September	170.312941	7.40337	8.439681	7.036924	0.0465537	6.1167039	164.7909	8.312316	1.387302178	0.009564881	0.028592989
	October	188.064413	7.54353	9.485226	7.031417	0.0501786	6.6250272	181.6495	9.147164	1.52628596	0.010523117	0.031457514
Junction 28	May	46.2978153	7.17841	6.716059	8.724933	0.0149892	2.7462078	41.95228	2.095166	0.380639888	0.002624356	0.007845178
	June	42.6906738	7.1572	5.940685	8.720863	0.0142074	2.5758654	39.05896	1.958223	0.356530314	0.002458131	0.007348267
	July	44.6265343	7.16064	5.842687	8.698719	0.0145393	2.6224316	41.09831	2.062339	0.373229101	0.002573262	0.007692438
	August	41.2642914	7.14786	5.741686	8.716075	0.0139899	2.5194451	37.81978	1.896504	0.346331725	0.002387816	0.007138069
	September	40.4744959	7.12182	5.742787	8.7302	0.0140712	2.4942092	37.02441	1.856375	0.339803508	0.002342806	0.00700352
	October	47.7249915	7.1041	6.0558	8.688903	0.0157981	2.6996415	44.01373	2.205664	0.397296648	0.002739198	0.008188482

Notes: [a] Regulatory criteria is for un-ionized ammonia

Table D: Dissolved Metal Concentrations, Historical Conditions. Effluent solutions at sedimentation ponds in equilibrium with calcite. Mineral precipitation was allowed. Effluent pH of 8

Regulation[a]		Al mg/L	As mg/L	B mg/L	Ba mg/L	Be mg/L	Cd mg/L	Ca mg/L	Cr mg/L	Co mg/L	Cu mg/L	Fe mg/L	Li mg/L	Mg mg/L	Mn mg/L	Hg mg/L	Mo mg/L	Ni mg/L	P mg/L	Pb mg/L	K mg/L	Na mg/L	Sr mg/L	Se mg/L	Sb mg/L	Tl mg/L	Ti mg/L	U mg/L	Zn mg/L	Sn mg/L
MDMER			0.1								0.1							0.25		0.08									0.4	
Directive 019 (2025)			0.1								0.1	3						0.25		0.08									0.4	
CVAC (hardness 10mg/L)			0.15		0.038	0.000138	0.00005			0.1	0.0013	0.65	0.44		0.26	0.00091	3.2	0.007		0.00017			21	0.005	0.24	0.0072		0.014	0.017	
CVAA (hardness 10mg/L)			0.34		0.11	0.00124	0.0002			0.37	0.0016	3.4	0.91		0.6	0.0016	29	0.07		0.004			40	0.062	1.1	0.047		0.32	0.017	
CVAC (hardness 40mg/L)					0.165	0.001425046	0.00014				0.0043				0.86			0.024		0.00099									0.055	
CVAA (hardness 40mg/L)					0.47	0.012825099	0.0008				0.0059				1.9			0.22		0.025									0.055	
CVAC (hardness 400mg/L)					1.911	0.068822	0.0076				0.0305				6.52			0.169		0.01858									0.388	
CVAA (hardness 400mg/L)					5.45	0.61939	0.0087				0.0517				14.1			1.52		0.477									0.388	
CCME (long-term)		0.005[b]	0.005	1.5			0.00004[d]				0.002[g]	0.3			0.23[i]	0.000026	0.073	0.025[k]		0.001[m]				0.001		0.0008		0.015	0.02[o]	
CCME (long-term)		0.1[c]					0.00037[e]				0.004[h]				1.2[j]			0.15[l]		0.007[n]									0.312[p]	
CCME (long-term)							0.00007[f]																						0.037[q]	
Station	**Time**																													
Effluent (pH 8)	n/a	0.398706202	0.03473	0.27582	0.05568	3.98717E-05	0.001822568	289.54	0.00649	0.00378107	0.05632	1.26081	0.03554	46.3083	0.25157	0.001001526	0.0502	0.0502	3.987252382	0.002515822	50.1944	25.0428	0.85245	0.00399	0.00502	0.00010015	0.01001	0.16351396	0.14145	2.0925E-05
	n/a	6.03712E-09	0.03473	0.27582	0.0073	3.98708E-05	0.001781649	301.944	0.00667	0.00378023	0.00609	0.01833	0.03554	13.9472	0.25046	0.001001526	0.0502	0.04789	6.96693E-06	5.09857E-05	50.1944	25.0405	0.85243	0.00399	0.00502	0.00010015	0.01001	0.163511579	0.12408	2.0925E-05
	n/a	0.203033383	0.03473	0.27582	0.00759	3.98717E-05	0.001809753	326.147	0.00667	0.003772667	0.0156	0.02055	0.03554	14.9629	0.25125	0.001001526	0.0502	0.04956	3.2795E-05	9.57513E-05	50.1944	25.0428	0.85244	0.00399	0.00502	0.00010015	0.01001	0.163511579	0.13576	2.0925E-05
Junction 2	November	0.09839088	0.00421	0.09249	0.00453	9.11672E-06	0.00022367	36.9094	0.00095	0.000441073	0.00792	0.02019	0.00419	1.81797	0.04563	0.000111769	0.00589	0.00782	0.00144474	0.000186167	5.85262	3.18477	0.10093	0.00067	0.00066	0.00032291	0.00296	0.01788454	0.03183	2.2879E-06
	December	0.107192258	0.00661	0.10737	0.0048	1.15698E-05	0.000348495	59.6441	0.00141	0.000703079	0.00858	0.01985	0.00666	2.85219	0.06193	0.000181704	0.00937	0.01112	0.000577908	0.000188088	9.3398	4.90579	0.16005	0.00093	0.001	0.00030778	0.00353	0.029327542	0.04012	3.75242E-06
	January	0.112143371	0.00804	0.11599	0.00495	1.30109E-05	0.000422632	73.1624	0.00169	0.000858815	0.00895	0.01973	0.00812	3.46662	0.07155	0.000223297	0.01144	0.01307	0.000401017	0.000190309	11.4124	5.92745	0.19517	0.00109	0.0012	0.0002976	0.00386	0.036135169	0.04499	4.6234E-06
	February	0.115713028	0.00908	0.12226	0.00505	1.40635E-05	0.000477006	83.0777	0.00189	0.000973011	0.00922	0.01967	0.0092	3.91724	0.07859	0.000253786	0.01296	0.0145	0.000322251	0.000192178	12.9325	6.67669	0.22093	0.0012	0.00135	0.0002899	0.0041	0.041126635	0.04855	5.2623E-06
	March	0.130509704	0.01343	0.14828	0.0049	1.84371E-05	0.000702846	124.266	0.00273	0.001447445	0.01036	0.01951	0.01366	5.78896	0.10785	0.000380499	0.01927	0.02044	0.000169216	0.000200557	19.2469	9.78881	0.32794	0.00167	0.00198	0.00025775	0.00511	0.061866094	0.06333	7.91641E-06
	April	0.129058097	0.00047	0.0707	0.0042	5.39875E-06	2.94727E-05	1.48521	0.00099	3.3007E-05	0.00382	0.01847	0.00035	0.20874	0.02062	2.73344E-06	0.00046	0.00272	0.009152747	0.000145977	0.42136	0.51056	0.0089	0.00027	0.00012	0.0003536	0.00212	3.46165E-05	0.01905	3.53566E-09
	May	0.100611461	0.00366	0.08122	0.00396	7.98218E-06	0.000191621	29.719	0.00144	0.000383513	0.00372	0.01744	0.00364	1.4827	0.03978	9.69171E-05	0.00511	0.00665	0.000388845	0.000165008	5.07887	2.76797	0.08761	0.00058	0.00057	0.00028514	0.0026	0.015501871	0.02661	1.98305E-06
	June	0.080035339	0.00887	0.112	0.00441	1.32001E-05	0.00045857	75.519	0.00233	0.000954581	0.00408	0.01702	0.009	3.57575	0.07468	0.000249173	0.01269	0.01352	8.62031E-05	0.000169595	12.6647	6.5045	0.21616	0.00115	0.00132	0.00024403	0.00379	0.04042445	0.04249	5.17279E-06
	July	0.089867412	0.00767	0.10758	0.00447	1.21935E-05	0.00039744	64.8903	0.00215	0.000822626	0.00414	0.01791	0.00776	3.09573	0.06734	0.000213749	0.01094	0.01203	0.000117514	0.000169303	10.9112	5.65272	0.18652	0.00103	0.00115	0.00026742	0.00359	0.034611784	0.03953	4.42871E-06
	August	0.101952443	0.00456	0.08913	0.0042	9.07617E-06	0.000238284	37.5912	0.00162	0.00048222	0.00391	0.01813	0.00457	1.84779	0.04651	0.000123006	0.00642	0.00793	0.000327981	0.000166543	6.38944	3.42479	0.10988	0.00069	0.0007	0.00029143	0.00288	0.019756876	0.03003	2.52757E-06
	September	0.100762557	0.00474	0.08988	0.00419	9.22847E-06	0.000247041	39.1081	0.00165	0.000501071	0.00391	0.01803	0.00474	1.91655	0.04759	0.000128057	0.00667	0.00815	0.000253765	0.000166616	6.64006	3.54709	0.11413	0.00071	0.00073	0.00028867	0.00291	0.020585454	0.03049	2.6337E-06
	October	0.102810456	0.00525	0.09501	0.00437	9.89357E-06	0.000273402	43.5207	0.00176	0.000556531	0.00404	0.01828	0.00527	2.12253	0.05155	0.000142654	0.00741	0.00888	0.000192341	0.0001642	7.37629	3.91907	0.12665	0.00077	0.0008	0.00029574	0.00309	0.022961935	0.03259	2.93772E-06
Junction 3	November	0.11698116	0.0098	0.12501	0.0042	2.49394E-05	0.00053816	90.4641	0.0022	0.001089785	0.00997	0.01923	0.01121	4.77034	0.08329	0.000270034	0.014	0.01581	0.000206518	0.000341238	14.2842	7.3519	0.25841	0.0013	0.0015	0.00027749	0.01049	0.044266236	0.0553	5.6113E-06
	December	0.117601736	0.00965	0.12417	0.00457	3.9376E-05	0.000564419	90.5643	0.00215	0.001127543	0.01037	0.01918	0.01286	4.60312	0.08267	0.000258741	0.01377	0.01615	0.00018968	0.000348013	14.4996	7.48087	0.28281	0.00133	0.00154	0.00028027	0.01936	0.043085613	0.06144	5.38469E-06
	January	0.13060414	0.01338	0.14526	0.00446	6.83367E-05	0.000817149	128.077	0.00283	0.001628866	0.01199	0.01891	0.01982	6.63065	0.10811	0.000355626	0.01917	0.02215	9.26518E-05	0.000369417	20.6744	10.5576	0.42341	0.00181	0.00219	0.00024859	0.03562	0.060114201	0.08531	7.43315E-06
	February	0.150249398	0.01915	0.17976	0.00398	7.49174E-05	0.001118598	182.339	0.00395	0.002261219	0.01352	0.01885	0.02584	9.64349	0.14694	0.000523359	0.02754	0.03006	5.80882E-05	0.000380709	29.0751	14.699	0.56689	0.00244	0.00302	0.00020581	0.03742	0.08760416	0.10527	1.09473E-05
	March	0.141267244	0.01652	0.16433	0.00431	6.6463E-05	0.00096839	157.374	0.00345	0.001952493	0.01269	0.01899	0.02242	7.89426	0.12917	0.000449442	0.02373	0.02626	7.87942E-05	0.000374286	25.0812	12.723	0.49091	0.00214	0.00262	0.00022637	0.03327	0.075236178	0.09376	9.39447E-06
	April	0.065897013	0.01632	0.16495	0.0036	3.25953E-05	0.000866026	142.301	0.00384	0.00180813	0.00571	0.01823	0.01802	7.82013	0.12705	0.000459371	0.02346	0.024	3.20362E-05	0.000319647	23.7784	12.037	0.4208	0.00202	0.00244	0.00023426	0.01265	0.075298065	0.07236	9.57717E-06
	May	0.072472414	0.00876	0.10799	0.00355	1.44258E-05	0.000456539	75.2144	0.00244	0.000949315	0.00432	0.01602	0.00909	3.8747	0.07312	0.000245743	0.01254	0.01333	7.40428E-05	0.000306159	12.5642	6.44242	0.21661	0.00113	0.00131	0.00022738	0.00463	0.039957913	0.042	5.10477E-06
	June	0.059289234	0.01126	0.12117	0.00402	1.89833E-05	0.000589128	97.1932	0.00284	0.001231264	0.00446	0.01539	0.01193	4.68625	0.08948	0.000317875	0.01617	0.01665	4.71018E-05	0.000306842	16.2672	8.26298	0.28242	0.0014	0.00167	0.00019973	0.00648	0.05187364	0.05013	6.61856E-06
	July	0.071290622	0.01021	0.11873	0.00426	1.76675E-05	0.000534158	87.6346	0.00271	0.001112641	0.00458	0.0166	0.01077	4.20695	0.08338	0.000286703	0.01463	0.01536	5.82462E-05	0.000311318	14.7014	7.50754	0.25522	0.0013	0.00152	0.00022791	0.00602	0.046722695	0.04767	5.96209E-06
	August	0.074981697	0.00963	0.11623	0.00411	1.81496E-05	0.00050683	82.6649	0.00262	0.00105256	0.00462	0.01693	0.01029	4.0497	0.07976	0.000269132	0.01378	0.01466	6.6671E-05	0.000312416	13.8834	7.11051	0.2428	0.00124	0.00144	0.00023745	0.00653	0.04388777	0.04657	5.59409E-06
	September	0.075154379	0.00933	0.11394	0.00389	1.74872E-05	0.000491069	80.18	0.00256	0.001019508	0.00456	0.01678	0.00995	4.02588	0.07765	0.000260867	0.01336	0.01424	6.91118E-05	0.000312064	13.451	6.8944	0.23499	0.00121	0.0014	0.00023674	0.00624	0.042521484	0.04539	5.42089E-06
	October	0.074514916	0.01104	0.12722	0.00386	2.07785E-05	0.000581641	95.3295	0.00289	0.001210172	0.00487	0.01737	0.01187	4.99978	0.08992	0.00030941	0.01582	0.01664	5.21257E-05	0.000314426	15.956	8.14482	0.27945	0.00141	0.00165	0.00024042	0.00755	0.050512115	0.05199	6.43657E-06
Junction 4	November	0.11679229	0.00978	0.12481	0.0042	2.48998E-05	0.000537384	90.3198	0.00237	0.001088048	0.01035	0.0192	0.01119	4.76281	0.08315	0.000269613	0.01398	0.01579	0.00020767	0.000485304	14.2615	7.34017	0.258	0.0013	0.0015	0.00027704	0.01047	0.044197208	0.05525	5.60228E-06
	December	0.117577453	0.00965	0.12414	0.00457	3.9367E-05	0.000564374	90.5442	0.00233	0.001127318	0.01076	0.01918	0.01285	4.60215	0.08265	0.000258681	0.01377	0.01615	0.000190365	0.000492556	14.4965	7.47926	0.28274	0.00133	0.00154	0.00028021	0.01935	0.043076092	0.06146	5.3835E-06
	January	0.130601441	0.01338	0.14526	0.00446	6.83358E-05	0.000817216	128.073	0.00301	0.001628866	0.01238	0.01891	0.01982	6.6304	0.10811	0.000355626	0.01917	0.02215	9.28841E-05	0.000514022	20.674	10.5574	0.4234	0.00181	0.00219	0.00024857	0.03562	0.060111821	0.08535	7.43303E-06
	February	0.150249398	0.01915	0.17976	0.00398	7.49174E-05	0.001118677	182.339	0.00413	0.002261219	0.01392	0.01885	0.02584	9.64349	0.14694	0.000523359	0.02754	0.03006	5.81997E-05	0.000525314	29.0751	14.699	0.56689	0.00244	0.00302	0.00020581	0.03742	0.08760416	0.10531	1.09473E-05
	March	0.141267244	0.01652	0.16433	0.00431	6.6463E-05	0.00096848	157.374	0.00363	0.001952521	0.01308	0.01899	0.02242	7.89426	0.12917	0.000449442	0.02373	0.02626	7.89614E-05	0.000518891	25.0812	12.723	0.49091	0.00214	0.00262	0.00022637	0.03327	0.075236178	0.09379	9.39447E-06
	April	0.065897013	0.01632	0.16495	0.0036	3.25953E-05	0.000866105	142.297	0.00402	0.001808158	0.0061	0.01823	0.01802	7.82013	0.12706	0.000459371	0.02346	0.02401	3.22375E-05	0.000464252	23.7784	12.037	0.4208	0.00202	0.00244	0.00023426	0.01265	0.075298065	0.0724	9.57717E-06
	May	0.071018109	0.00859	0.10582	0.00348	1.41356E-05	0.000447318	73.6994	0.00257	0.000930268	0.00462	0.0157	0.00891	3.79693	0.07165	0.000240808	0.01229	0.01306	7.69512E-05	0.00044461	12.3121	6.31299	0.21227	0.00111	0.00128	0.00022282	0.00454	0.039155756	0.04119	5.00232E-06
	June	0.058102046	0.01104	0.11875	0.00394	1.86029E-05	0.000577415	95.2414	0.00296	0.001206615	0.00477	0.01508	0.01169	4.59219	0.08769	0.000311516	0.01585	0.01632	4.87837E-05	0.000445314	15.9415	8.09746	0.27676	0.00138	0.00164	0.00019572	0.00635	0.050835834	0.04916	6.48608E-06
	July	0.07016819	0.01005	0.11686	0.0042	1.7389E-05	0.000525839	86.2559	0.00285	0.001095163	0.0049	0.01634	0.0106	4.14084	0.08207	0.00028219	0.0144	0.01512	6.00798E-05	0.000451033	14.4699	7.3896	0.2512	0.00128	0.0015	0.00022431	0.00593	0.045987185	0.04695	5.86831E-06
	August	0.073921322	0.00949	0.11459	0.00405	1.78928E-05	0.000499748	81.4946	0.00276	0.001037714	0.00495	0.01669	0.01015	3.99234	0.07864	0.00026534	0.01358	0.01445	6.86317E-05	0.000452608	13.6871	7.00981	0.23936	0.00123	0.00142	0.0002341	0.00643	0.043266515	0.04594	5.51503E-06
	September	0.07402655	0.00919	0.11223	0.00383	1.7225E-05	0.000483785	78.9697	0.00271	0.001004215	0.00489	0.01653	0.0098	3.9656	0.07649	0.000256936	0.01316	0.01403	7.16113E-05	0.000451965	13.2488	6.79072	0.23146	0.00119	0.00138	0.00023318	0.00615	0.041883567	0.04474	5.33946E-06
	October	0.073745942	0.01093	0.1259	0.00382	2.05649E-05	0.000575728	94.3436	0.00304	0.001197708	0.00522	0.01719	0.01174	4.94825	0.08899	0.000306241	0.01566	0.01647	5.32904E-05	0.000455799	15.7918	8.0609	0.27656	0.00139	0.00163	0.00023794	0.00747	0.049993212	0.05149	6.37033E-06
Junction 5	November	0.116722138	0.00978	0.12474	0.00419	2.48844E-05	0.000537148	90.2597	0.00255	0.001087404	0.01074	0.01918	0.01118	4.75989	0.08311	0.000269453	0.01397	0.01578	0.000208571	0.000629598	14.2529	7.33558	0.25784	0.0013	0.0015	0.00027688	0.01047	0.044168645	0.05525	5.59884E-06
	December	0.11756666	0.00965	0.12413	0.00457	3.93643E-05	0.000564408	90.5322	0.00251	0.001127234	0.01115	0.01917	0.01285	4.60191	0.08265	0.000258661	0.01377	0.01615	0.000191018	0.000637099	14.4953	7.47857	0.28272	0.00133	0.00154	0.00028017	0.01935	0.043071331	0.06149	5.38302E-06
	January	0.130598743	0.01338	0.14526	0.00446	6.83349E-05	0.000817295	128.069	0.0032	0.001628866	0.01278	0.01891	0.01982	6.6304	0.10811	0.000355606	0.01917	0.02215	9.31133E-05	0.000658606	20.6736	10.5574	0.4234	0.00181	0.00219	0.00024857	0.03562	0.060111821	0.08539	7.43303E-06
	February	0.150249398	0.01915	0.17976	0.00398	7.49174E-05	0.001118767	182.335	0.00431	0.002261247	0.01431	0.01885	0.02584	9.64349	0.14694	0.000523359	0.02754	0.03006	5.83081E-05	0.000669919	29.0751	14.699	0.56689	0.00244	0.00302	0.00020581	0.03742	0.08760416	0.10535	1.09473E-05
	March	0.141267244	0.01652	0.16433	0.00431	6.6463E-05	0.000968559	157.37	0.00381	0.001952549	0.01348	0.01899	0.02242	7.89426	0.12917	0.000449442	0.02373	0.02626	7.91256E-05	0.000663496	25.0812	12.723	0.49091	0.00214	0.00262	0.00022637	0.03327	0.075236178	0.09383	9.39447E-06
	April	0.065897013	0.01632	0.16495	0.0036	3.25953E-05	0.000866195	142.293	0.0042	0.001808186	0.0065	0.01823	0.01802	7.82013	0.12706	0.000459371	0.02346	0.02401	3.24419E-05	0.000608857	23.7784	12.037	0.4208	0.00202	0.00244	0.00023426	0.01265	0.075298065	0.07243	9.57717E-06
	May	0.07047578	0.00852	0.10502	0.00346	1.40284E-05	0.000444002	73.1383	0.00273	0.00092321	0.00498	0.01558	0.00884	3.768	0.07111	0.000238983	0.01219	0.01297	7.86269E-05	0.000585837	12.2182	6.26494	0.21065	0.0011	0.00127	0.00022112	0.0045	0.03885822	0.04091	4.96421E-06
	June	0.057659549	0.01095	0.11785	0.00391	1.84615E-05	0.000573109	94.5159	0.00312	0.001197484	0.00513	0.01497	0.0116	4.55743	0.08703	0.000309149	0.01573	0.01619	4.98027E-05	0.000586521	15.8203	8.03584	0.27465	0.00137	0.00163	0.00019424	0.0063	0.050450227	0.04882	6.43681E-06
	July	0.069747278	0.00999	0.11616	0.00417	1.72854E-05	0.000522781	85.7389	0.00301	0.001088637	0.00527	0.01624	0.01054	4.11605	0.08158	0.000280505	0.01431	0.01503	6.12537E-05	0.000592924	14.3835	7.34523	0.2497	0.00127	0.00149	0.00022298	0.00589	0.045713452	0.04671	5.83317E-06
	August	0.073524694	0.00944	0.11397	0.00403	1.77973E-05	0.000497151	81.0537	0.00293	0.00103214	0.00531	0.0166	0.01009	3.97095	0.07822	0.000263916	0.01351	0.01438	6.99016E-05	0.000594788	13.6136	6.97211	0.23808	0.00122	0.00142	0.00023283	0.0064	0.043035627	0.04573	5.48547E-06
	September	0.07360294	0.00914	0.11159	0.00381	1.71268E-05	0.000481109	78.5208	0.00287	0.000998528	0.00525	0.01643	0.00975	3.943	0.07606	0.000255471	0.01308	0.01395	7.25777E-05	0.000594001	13.1734	6.7521	0.23013	0.00118	0.00137	0.00023185	0.00611	0.041643158	0.04452	5.30907E-06
	October	0.07345724	0.01088	0.12542	0.0038	2.04838E-05	0.000573559	93.9709	0.00321	0.001193058	0.00559	0.01712	0.0117	4.92881	0.08864	0.000305037	0.0156	0.0164	5.40647E-05	0.000598601	15.7296	8.02918	0.27549	0.00139	0.00163	0.000237	0.00744	0.049795648	0.05132	6.34529E-06

Table D: Dissolved Metal Concentrations, Historical Conditions. Effluent solutions at sedimentation ponds in equilibrium with calcite. Mineral precipitation was allowed. Effluent pH of 8

Regulation[a]		Al	As	B	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Li	Mg	Mn	Hg	Mo	Ni	P	Pb	K	Na	Sr	Se	Sb	Tl	Ti	U	Zn	Sn
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MDMER			0.1								0.1							0.25		0.08									0.4	
Directive 019 (2025)			0.1								0.1	3						0.25		0.08									0.4	
CVAC (hardness 10mg/L)			0.15		0.038	0.000138	0.00005			0.1	0.0013	0.65	0.44		0.26	0.00091	3.2	0.007		0.00017			21	0.005	0.24	0.0072		0.014	0.017	
CVAA (hardness 10mg/L)			0.34		0.11	0.00124	0.0002			0.37	0.0016	3.4	0.91		0.6	0.0016	29	0.07		0.004			40	0.062	1.1	0.047		0.32	0.017	
CVAC (hardness 40mg/L)					0.165	0.001425046	0.00014				0.0043				0.86			0.024		0.00099									0.055	
CVAA (hardness 40mg/L)					0.47	0.012825099	0.0008				0.0059				1.9			0.22		0.025									0.055	
CVAC (hardness 400mg/L)					1.911	0.068822	0.0076				0.0305				6.52			0.169		0.01858									0.388	
CVAA (hardness 400mg/L)					5.45	0.61939	0.0087				0.0517				14.1			1.52		0.477									0.388	
CCME (long-term)		0.005[b]	0.005	1.5			0.00004[d]				0.002[g]	0.3			0.23[i]	0.000026	0.073	0.025[k]		0.001[m]				0.001		0.0008		0.015	0.02[o]	
CCME (long-term)		0.1[c]					0.00037[e]				0.004[h]				1.2[j]			0.15[l]		0.007[n]									0.312[p]	
CCME (long-term)							0.00007[f]																						0.037[q]	
Station	**Time**																													
	November	0.116649288	0.00977	0.12466	0.00419	2.48691E-05	0.000536901	90.2036	0.00273	0.00108676	0.01112	0.01917	0.01118	4.75697	0.08306	0.000269272	0.01396	0.01577	0.000209479	0.000773809	14.2439	7.33121	0.25768	0.0013	0.0015	0.00027671	0.01046	0.044142461	0.05525	5.5954E-06
	December	0.117555867	0.00965	0.12412	0.00457	3.93607E-05	0.000564442	90.5202	0.00269	0.00112715	0.01154	0.01917	0.01285	4.60142	0.08264	0.000258621	0.01377	0.01615	0.000191675	0.000781641	14.4941	7.47788	0.2827	0.00133	0.00154	0.00028015	0.01935	0.043068951	0.06152	5.38255E-06
	January	0.130598743	0.01338	0.14526	0.00446	6.8334E-05	0.000817362	128.065	0.00338	0.001628894	0.01317	0.01891	0.01982	6.6304	0.10811	0.000355606	0.01917	0.02215	9.33425E-05	0.000803211	20.6736	10.5574	0.42339	0.00181	0.00219	0.00024857	0.03562	0.060111821	0.08542	7.43291E-06
	February	0.150249398	0.01915	0.17976	0.00398	7.49174E-05	0.001118845	182.331	0.00449	0.002261275	0.0147	0.01885	0.02584	9.64349	0.14694	0.000523359	0.02754	0.03006	5.84196E-05	0.000814503	29.0751	14.699	0.56689	0.00244	0.00302	0.00020581	0.03742	0.08760416	0.10538	1.09473E-05
	March	0.141267244	0.01652	0.16433	0.00431	6.6463E-05	0.000968649	157.366	0.00399	0.001952577	0.01387	0.01899	0.02242	7.89426	0.12918	0.000449442	0.02373	0.02626	7.92928E-05	0.000808101	25.0812	12.723	0.49091	0.00214	0.00262	0.00022637	0.03327	0.075236178	0.09387	9.39447E-06
Junction 6	April	0.065897013	0.01632	0.16495	0.0036	3.25953E-05	0.000866274	142.293	0.00439	0.001808214	0.00689	0.01823	0.01802	7.82013	0.12706	0.000459371	0.02346	0.02401	3.26463E-05	0.000753462	23.7784	12.037	0.4208	0.00202	0.00244	0.00023426	0.01265	0.075298065	0.07247	9.57717E-06
	May	0.069938847	0.00846	0.10422	0.00343	1.3922E-05	0.000440697	72.5773	0.00289	0.000916207	0.00534	0.01546	0.00877	3.73932	0.07057	0.000237158	0.0121	0.01287	8.0349E-05	0.000725967	12.1252	6.21735	0.20904	0.00109	0.00126	0.00021945	0.00447	0.038560683	0.04063	4.92647E-06
	June	0.057222448	0.01087	0.11695	0.00388	1.83218E-05	0.000568849	93.7945	0.00328	0.001188408	0.00548	0.01485	0.01151	4.52292	0.08637	0.000306802	0.01561	0.01607	5.08496E-05	0.000726671	15.7003	7.97492	0.27257	0.00136	0.00161	0.00019276	0.00625	0.050067001	0.04849	6.3879E-06
	July	0.069331763	0.00993	0.11546	0.00415	1.71817E-05	0.000519735	85.2219	0.00317	0.001082166	0.00563	0.01615	0.01047	4.0915	0.08109	0.00027882	0.01422	0.01494	6.24524E-05	0.000733985	14.2975	7.30132	0.24821	0.00126	0.00148	0.00022163	0.00586	0.045439719	0.04646	5.79827E-06
	August	0.073130763	0.00939	0.11336	0.004	1.77017E-05	0.000494565	80.6169	0.00309	0.001026623	0.00568	0.01651	0.01004	3.94956	0.0778	0.000262492	0.01344	0.0143	7.11963E-05	0.000736202	13.5405	6.93486	0.2368	0.00121	0.00141	0.00023159	0.00636	0.042804739	0.04552	5.45591E-06
	September	0.073184726	0.00909	0.11095	0.00379	1.70285E-05	0.000478445	78.0679	0.00303	0.000992842	0.00561	0.01634	0.00969	3.9204	0.07562	0.000254027	0.01301	0.01387	7.38972E-05	0.000735208	13.0983	6.71347	0.22883	0.00118	0.00136	0.00023052	0.00608	0.041407509	0.0443	5.2788E-06
	October	0.073168537	0.01084	0.12492	0.00379	2.04036E-05	0.000571389	93.6022	0.00337	0.001188408	0.00596	0.01706	0.01165	4.90961	0.0883	0.000303834	0.01553	0.01634	5.48545E-05	0.000740864	15.6683	7.99791	0.2744	0.00138	0.00162	0.00023606	0.00741	0.049600464	0.05116	6.32048E-06
	November	0.239339742	0.00022	0.0707	0.00567	1.30091E-05	7.94981E-05	0.57175	0.00011	4.82136E-05	0.00627	0.02948	0.00035	0.32335	0.01762	2.18001E-06	0.00017	0.00077	0.01729451	0.000184771	0.51668	0.8317	0.017	8.9E-06	6.7E-05	0.00035356	0.00212	0.000137981	0.00875	3.53578E-09
	December	0.239339742	0.00022	0.0707	0.00567	1.30091E-05	7.94981E-05	0.57175	0.00011	4.82136E-05	0.00627	0.02948	0.00035	0.32335	0.01762	2.18001E-06	0.00017	0.00077	0.01729451	0.000184771	0.51668	0.8317	0.017	8.9E-06	6.7E-05	0.00035356	0.00212	0.000137981	0.00875	3.53578E-09
	January	0.239339742	0.00022	0.0707	0.00567	1.30091E-05	7.94981E-05	0.57175	0.00011	4.82136E-05	0.00627	0.02948	0.00035	0.32335	0.01762	2.18001E-06	0.00017	0.00077	0.01729451	0.000184771	0.51668	0.8317	0.017	8.9E-06	6.7E-05	0.00035356	0.00212	0.000137981	0.00875	3.53578E-09
	February	0.239339742	0.00022	0.0707	0.00567	1.30091E-05	7.94981E-05	0.57175	0.00011	4.82136E-05	0.00627	0.02948	0.00035	0.32335	0.01762	2.18001E-06	0.00017	0.00077	0.01729451	0.000184771	0.51668	0.8317	0.017	8.9E-06	6.7E-05	0.00035356	0.00212	0.000137981	0.00875	3.53578E-09
	March	0.239339742	0.00022	0.0707	0.00567	1.30091E-05	7.94981E-05	0.57175	0.00011	4.82136E-05	0.00627	0.02948	0.00035	0.32335	0.01762	2.18001E-06	0.00017	0.00077	0.01729451	0.000184771	0.51668	0.8317	0.017	8.9E-06	6.7E-05	0.00035356	0.00212	0.000137981	0.00875	3.53578E-09
OutletSP04	April	0.091057298	0.00022	0.0707	0.00567	1.30091E-05	7.9344E-05	0.57175	0.00049	4.81884E-05	0.00335	0.02074	0.00035	0.32335	0.01762	2.18001E-06	0.00017	0.00077	0.018670674	0.000127355	0.51668	0.8317	0.017	8.9E-06	6.7E-05	0.00035356	0.00212	0.000137981	0.00867	3.53578E-09
	May	4.74281E-07	0.03325	0.26702	0.00361	3.8719E-05	0.001708693	289.01	0.00658	0.003620012	0.00634	0.01824	0.03403	13.3306	0.24047	0.00095864	0.04805	0.04587	1.08718E-05	0.000192064	48.0635	24.0036	0.81659	0.00382	0.00481	0.00011102	0.00967	0.156501628	0.11916	2.00276E-05
	June	6.19766E-08	0.03399	0.27145	0.00472	3.92985E-05	0.001745565	295.519	0.00672	0.003700681	0.00641	0.01826	0.03479	13.6409	0.24551	0.000980243	0.04913	0.04689	9.05952E-06	0.000193624	49.1348	24.5255	0.83463	0.0039	0.00491	0.00010555	0.00984	0.160031597	0.12165	2.04787E-05
	July	1.12602E-07	0.03363	0.26927	0.00531	3.90146E-05	0.001727466	292.325	0.00665	0.003661187	0.00638	0.01828	0.03441	13.4888	0.24303	0.000969632	0.0486	0.04639	9.0558E-06	0.000192984	48.6109	24.268	0.82577	0.00386	0.00486	0.00010824	0.00976	0.158298746	0.12043	2.02579E-05
	August	2.97795E-06	0.0322	0.26082	0.00514	3.79079E-05	0.00165732	279.905	0.00639	0.003507412	0.00625	0.01832	0.03296	12.8967	0.23344	0.000928471	0.04654	0.04445	1.09672E-05	0.000190127	46.5622	23.2725	0.79136	0.0037	0.00466	0.00011868	0.00944	0.151567289	0.11567	1.93948E-05
	September	1.55816E-07	0.03367	0.26951	0.00406	3.90462E-05	0.001729489	292.686	0.00666	0.003665669	0.00638	0.01824	0.03446	13.506	0.24332	0.000970836	0.04866	0.04644	9.92988E-06	0.000192922	48.6696	24.2979	0.82678	0.00387	0.00487	0.00010793	0.00977	0.15849631	0.12057	2.02828E-05
	October	2.38689E-07	0.03362	0.26921	0.00298	3.90065E-05	0.001726904	292.233	0.00665	0.003660067	0.00638	0.01823	0.0344	13.4844	0.24297	0.000969351	0.04859	0.04637	1.10282E-05	0.000192876	48.5953	24.2611	0.82553	0.00386	0.00486	0.00010831	0.00976	0.158251141	0.1204	2.02507E-05
	November	0.080715274	0.01015	0.12107	0.00415	2.0464E-05	0.000546355	89.1335	0.00328	0.001116591	0.00764	0.01804	0.01093	4.51636	0.08353	0.000284717	0.01454	0.01531	0.00012939	0.000927282	14.7135	7.56662	0.25862	0.00127	0.00152	0.0002414	0.00703	0.046482286	0.04855	5.92149E-06
	December	0.085404665	0.01032	0.12274	0.00422	2.24349E-05	0.000559395	91.3738	0.00344	0.001141183	0.00848	0.01818	0.01133	4.61722	0.08493	0.000288609	0.01478	0.0157	0.000139323	0.001049903	15.0079	7.71353	0.26619	0.0013	0.00155	0.00024383	0.00823	0.047198753	0.05059	6.00352E-06
	January	0.089109231	0.01074	0.12559	0.00427	2.51115E-05	0.000586734	95.8505	0.00365	0.001195579	0.0092	0.01824	0.01205	4.83621	0.08796	0.000299802	0.01539	0.01641	0.000134519	0.00117097	15.6882	8.05171	0.28094	0.00136	0.00162	0.00024256	0.00974	0.049131547	0.05342	6.23928E-06
	February	0.094535218	0.01157	0.13087	0.00428	2.87732E-05	0.000636274	104.191	0.00392	0.001295911	0.01005	0.01831	0.01325	5.27419	0.09371	0.000322408	0.01659	0.01769	0.000121442	0.001279978	16.9691	8.68599	0.30668	0.00146	0.00175	0.0002386	0.01169	0.052959052	0.05792	6.71436E-06
	March	0.098598638	0.01213	0.13451	0.00432	3.12245E-05	0.000669628	109.882	0.00413	0.001363359	0.01074	0.01837	0.01406	5.54105	0.09761	0.000337613	0.0174	0.01857	0.000116588	0.001382563	17.8304	9.11291	0.32398	0.00153	0.00184	0.00023633	0.01301	0.055534525	0.06103	7.03404E-06
Lake A	April	0.089934866	0.01332	0.14297	0.00417	3.16237E-05	0.000725992	119.224	0.00439	0.001489908	0.01017	0.01834	0.01519	6.15719	0.10593	0.000372275	0.01912	0.02011	5.44426E-05	0.001365034	19.5226	9.94468	0.35154	0.00167	0.00201	0.00023473	0.0129	0.061159148	0.06432	7.75782E-06
	May	0.068757056	0.01016	0.11847	0.00402	1.98493E-05	0.000547377	88.5323	0.00319	0.001118635	0.00635	0.01736	0.01086	4.4692	0.08279	0.000286483	0.01457	0.01505	6.90095E-05	0.000808971	14.7487	7.58639	0.25826	0.00125	0.00151	0.00022637	0.00641	0.046758399	0.04639	5.96043E-06
	June	0.059637296	0.01086	0.12131	0.00415	1.95339E-05	0.000580911	94.0671	0.00323	0.001192078	0.00583	0.01702	0.01145	4.60847	0.08704	0.000307605	0.01559	0.01582	6.08263E-05	0.000740926	15.7418	8.07309	0.27366	0.00131	0.00161	0.00021401	0.00589	0.050178875	0.04726	6.40357E-06
	July	0.060614027	0.01058	0.12013	0.00431	1.87769E-05	0.000565251	91.3578	0.0032	0.001160118	0.00572	0.01715	0.01111	4.42691	0.08531	0.000299742	0.01519	0.01545	6.01634E-05	0.000744863	15.3261	7.86779	0.26593	0.00129	0.00157	0.00021842	0.00555	0.048867335	0.04629	6.23809E-06
	August	0.064604597	0.00949	0.11378	0.00428	1.78892E-05	0.00050928	81.6429	0.00305	0.001040628	0.00567	0.01727	0.01	3.9814	0.07801	0.000267547	0.0136	0.01402	7.58083E-05	0.000768816	13.7341	7.08361	0.23926	0.00117	0.00141	0.00022781	0.00545	0.043604516	0.04306	5.56346E-06
	September	0.064796166	0.00947	0.11386	0.00417	1.77774E-05	0.000508224	81.4946	0.00305	0.001038779	0.00565	0.01731	0.00998	4.00036	0.07797	0.000267186	0.01358	0.01401	7.43835E-05	0.000767075	13.7114	7.07234	0.23873	0.00117	0.00141	0.00022877	0.0054	0.043537868	0.04303	5.55563E-06
	October	0.065435628	0.01013	0.119	0.00409	1.88913E-05	0.000541656	87.2819	0.00323	0.001111213	0.00587	0.01747	0.01071	4.37441	0.08273	0.00028568	0.01452	0.01497	6.3459E-05	0.000805034	14.665	7.54202	0.25555	0.00125	0.00151	0.00023054	0.00592	0.046579877	0.04582	5.94215E-06
	May	0.085018829	0.00797	0.10815	0.00409	1.6951E-05	0.000430546	69.0023	0.00284	0.000873604	0.00621	0.01886	0.00853	3.51766	0.06886	0.000221853	0.01137	0.01231	0.000178533	0.000370639	11.509	5.98631	0.20242	0.00103	0.0012	0.00025801	0.00572	0.036128028	0.04071	4.60334E-06
	June	0.074609352	0.00862	0.11039	0.00416	1.64851E-05	0.000461887	74.0922	0.00284	0.000942088	0.00564	0.01906	0.00905	3.6596	0.07271	0.000241851	0.01233	0.01299	0.000146295	0.00033784	12.4376	6.44196	0.21656	0.00109	0.00129	0.00024412	0.00508	0.039365221	0.04116	5.02333E-06
Junction 26	July	0.075426892	0.0084	0.10943	0.00429	1.58813E-05	0.000449206	71.8999	0.00282	0.000916151	0.00558	0.0192	0.00878	3.51377	0.07131	0.000235453	0.012	0.01269	0.000151502	0.000339414	12.1001	6.27529	0.2103	0.00107	0.00125	0.00024769	0.00481	0.038296471	0.04039	4.88872E-06
	August	0.07773921	0.00765	0.105	0.00426	1.53441E-05	0.000411446	65.2991	0.00274	0.000835258	0.00559	0.01924	0.00804	3.21263	0.06631	0.000213568	0.01092	0.01171	0.000188655	0.000371634	11.021	5.74399	0.19232	0.00098	0.00115	0.00025344	0.00477	0.034726038	0.03818	4.43049E-06
	September	0.078205991	0.0076	0.10486	0.00418	1.51936E-05	0.000408231	64.7901	0.00273	0.000828872	0.00546	0.01893	0.00797	3.20899	0.066	0.000211984	0.01084	0.01165	0.000184074	0.000351245	10.9381	5.70307	0.19077	0.00098	0.00114	0.0002548	0.00471	0.034459445	0.03801	4.39702E-06
	October	0.077353374	0.00832	0.10995	0.00411	1.63643E-05	0.000445575	71.2026	0.00293	0.000909233	0.00559	0.01857	0.00877	3.59398	0.07109	0.000232664	0.01189	0.01266	0.000147931	0.000401305	11.9965	6.22494	0.20934	0.00107	0.00125	0.0002536	0.00521	0.037860878	0.04076	4.82972E-06
	May	0.086618835	0.00804	0.10892	0.0041	1.73512E-05	0.000435008	69.8119	0.00307	0.000882511	0.00686	0.01887	0.00864	3.56044	0.06947	0.000222698	0.01148	0.01246	0.000177827	0.000542512	11.6212	6.04171	0.20479	0.00104	0.00121	0.0002593	0.00596	0.036446987	0.04139	4.64204E-06
	June	0.076166186	0.00839	0.10927	0.00416	1.61688E-05	0.000449589	72.0162	0.00296	0.000916123	0.00596	0.01913	0.00881	3.56093	0.07122	0.000235031	0.01199	0.0127	0.000160692	0.000414276	12.0943	6.27253	0.21063	0.00106	0.00125	0.00024724	0.00499	0.038241725	0.04056	4.87981E-06
Junction 27	July	0.076967538	0.00817	0.10832	0.00428	1.55803E-05	0.000437212	69.872	0.00294	0.00089083	0.0059	0.01922	0.00854	3.41898	0.06985	0.000228773	0.01167	0.01241	0.000160556	0.000414939	11.7651	6.10976	0.20451	0.00104	0.00122	0.00025074	0.00473	0.037199158	0.03981	4.7484E-06
	August	0.079107174	0.00746	0.10408	0.00426	1.50792E-05	0.000401329	63.5958	0.00274	0.000813915	0.00591	0.01932	0.00783	3.13267	0.0651	0.000207952	0.01064	0.01147	0.000208125	0.000450018	10.7387	5.60468	0.18743	0.00097	0.00112	0.00025611	0.0047	0.033800105	0.0377	4.3125E-06
	September	0.079603635	0.0074	0.10392	0.00418	1.49251E-05	0.000397901	63.0507	0.00285	0.00080708	0.00578	0.01901	0.00776	3.1266	0.06476	0.000206247	0.01056	0.0114	0.000205108	0.000427578	10.6496	5.56054	0.18578	0.00096	0.00111	0.00025752	0.00464	0.033516851	0.03752	4.27641E-06
	October	0.078599921	0.00813	0.10901	0.00411	1.61003E-05	0.000435627	69.5233	0.00305	0.000888169	0.0059	0.01862	0.00857	3.51256	0.06988	0.000227128	0.01161	0.01242	0.00016347	0.00048	11.7182	6.08723	0.20452	0.00105	0.00122	0.00025601	0.00513	0.036949228	0.04026	4.7135E-06
	May	0.119549803	0.00219	0.07937	0.00418	8.11736E-06	0.000121092	16.9454	0.00136	0.000225228	0.00465	0.01994	0.00223	0.96775	0.03168	5.27271E-05	0.00295	0.00492	0.003386052	3.98901E-05	2.95614	1.76237	0.05325	0.00044	0.00037	0.00033237	0.003	0.008273171	0.02411	1.05298E-06
	June	0.118432767	0.00206	0.07845	0.00419	7.56212E-06	0.000113684	15.642	0.00128	0.000210341	0.00446	0.02006	0.00205	0.8821	0.03078	4.93933E-05	0.00277	0.00472	0.003087898	3.44097E-05	2.76609	1.66795	0.04942	0.00043	0.00035	0.00033225	0.0027	0.007709042	0.02337	9.83038E-07
Junction 28	July	0.117709662	0.00215	0.0789	0.00422	7.61728E-06	0.000118147	16.3743	0.00131	0.000219853	0.0045	0.02004	0.00214	0.9082	0.03134	5.19849E-05	0.0029	0.00483	0.002517547	3.57938E-05	2.89296	1.73058	0.05152	0.00043	0.00036	0.0003312	0.00269	0.008132258	0.02357	1.03738E-06
	August	0.118084705	0.00201	0.07804	0.00421	7.52562E-06	0.000111017	15.1218	0.0013	0.000204526	0.00448	0.02012	0.002	0.85116	0.03039	4.78247E-05	0.0027	0.00464	0.003147863	3.66412E-05	2.68828	1.62637	0.04813	0.00042	0.00034	0.00033218	0.00269	0.007453637	0.02315	9.50285E-07
	September	0.11834103	0.00197	0.0779	0.00419	7.46353E-06	0.000109173	14.822	0.00129	0.000200714	0.0045	0.02028	0.00196	0.84115	0.03018	4.68438E-05	0.00265	0.0046	0.004449071	3.64734E-05	2.6382	1.60505	0.04724	0.00042	0.00034	0.00033278	0.00267	0.007291064	0.02307	9.2963E-07
	October	0.11718622	0.00227	0.07971	0.00418	7.91657E-06	0.000124869	17.4868	0.00138	0.000234136	0.0047	0.02041	0.00229	0.98601	0.03221	5.55293E-05	0.00308	0.005	0.004992661	4.08205E-05	3.07919	1.82263	0.05492	0.00045	0.00038	0.00033065	0.00283	0.008719713	0.02406	1.11167E-06

Notes: [a] Regulation criteria applies to total concentrations.

CCME criteria for:

Aluminium depends on pH conditions. Values are provided for reference given [b] pH<6.5 and [c] pH>=6.5

Cadmium depends on hardness concentrations. Values are provided for reference given a hardness of [d] 0–17, [e] >=280 and [f] 40 mg/L.

Copper depends on hardness concentrations. Values are provided for reference given a hardness of [g] 0–82 and [h] >=180 mg/L.

Manganese depends on hardness concentrations and pH conditions. Values are provided for reference given a hardness of [i] 10-24 and [j] >=670 mg/L and pH of [i] 6.7-6.9 and [j] 6.5-6.7.

Nickel depends on hardness concentrations. Values are provided for reference given a hardness of [k] <=60 and [l] >=180 mg/L.

Lead depends on hardness concentrations. Values are provided for reference given a hardness of [m] <=60 and [n] >=180 mg/L.

Zinc depends on hardness and DOC concentrations, and pH conditions. Values are provided for reference given a pH of [o,p,q] 6.5-6.7, [o,p,q] DOC 8 mg/L and hardness [o] 8, [p] 399, and [q] 38 mg/L.

Table E: General Chemistry. Climate Change Conditions. Effluent solutions at sedimentation ponds in equilibrium with calcite. Mineral precipitation was allowed. Effluent pH of 8

Regulation		Hardness mg/L	pH n/a	Alk mg/L	DOC mg/L	F mg/L	Si mg/L	Sulphate mg/L	Cl mg/L	Nitrate as N mg/L	Nitrite as N mg/L	Total Ammonia as N mg/L
MDMER												0.5[a]
CCME (long-term)			6.5-9							2.935483871	0.059956522	0.019[a]
CCME (long-term)												
CCME (long-term)												
Station	**Time**	**Effluent**										
Effluent (pH 8)	n/a	910.82566	8	126.122	4.465648	1.001539	34.73362	795.6938	40.0514	5.776351443	0.039825579	0.11905348
	n/a	808.56664	7.76991	22.58191	4.465648	0.186044	24.85857	795.59774	40.0514	5.776491534	0.039826545	0.119056367
	n/a	873.19748	7.13689	88.42584	4.465648	0.186051	34.73362	795.57853	40.0514	5.770607733	0.039785979	0.118935099
Year 21 Historical Conditions												
Junction 2	November	25.936186	6.97274	6.814308	8.958468	0.010275	2.291961	21.233102	1.05542	0.184134949	0.001269535	0.003795113
	December	192.65178	7.23389	22.86559	8.158513	0.04362	8.688363	173.60924	8.72885	1.288790541	0.008885683	0.026562615
	January	186.07981	7.22945	22.23942	8.208068	0.042256	8.439008	167.59588	8.42647	1.245572623	0.008587713	0.025671872
	February	4.5681564	6.90502	4.960145	9.198706	0.005911	1.491863	1.6700031	0.07	0.003227965	2.22555E-05	6.653E-05
	March	319.82096	7.28647	35.12114	7.480771	0.070163	13.55769	289.83223	14.5824	0.316408395	0.002181506	0.006521335
	April	4.5681464	7.57243	5.013108	9.198825	0.005911	1.491923	1.6700031	0.07	0.199755039	0.001377229	0.004117051
	May	122.0884	7.67471	6.718762	6.939488	0.030103	4.677656	118.24025	5.94284	0.883438689	0.006090948	0.018208111
	June	164.81773	7.54429	7.952495	7.251785	0.03995	6.002361	160.24729	8.05779	1.188471736	0.008194026	0.024494994
	July	104.1035	7.40317	6.660904	7.680072	0.02629	4.248405	100.28664	5.03745	0.756670799	0.005216935	0.015595362
	August	86.748378	7.41491	6.328923	7.872549	0.022422	3.757387	83.117836	4.17317	0.633363144	0.00436678	0.01305393
	September	157.95354	7.63597	7.909952	7.496093	0.038468	5.83298	153.41743	7.71286	1.140042452	0.007860126	0.023496843
	October	148.04004	7.77299	7.765258	7.691683	0.036277	5.565179	143.58088	7.21797	1.069787068	0.007375744	0.022048844
Junction 3	November	127.46564	7.27072	17.89172	8.187839	0.034171	6.157562	113.1971	5.55253	0.861850744	0.005942108	0.017763173
	December	421.9837	7.42674	49.31932	6.475531	0.105994	17.44703	380.51287	18.7034	2.809935179	0.019373353	0.057914163
	January	643.62178	7.47949	73.33877	5.109395	0.158359	25.88904	581.09576	28.6167	4.268277248	0.029428025	0.08797132
	February	659.89119	7.48903	75.23266	5.020457	0.161794	26.49891	595.64885	29.3466	4.37334512	0.030152425	0.090136821
	March	663.07046	7.47061	74.95488	5.026323	0.161669	26.6359	599.04937	29.544	2.097014642	0.014458058	0.043220516
	April	188.17268	7.78721	12.82436	8.065865	0.047044	6.737988	179.42087	8.94829	1.271643464	0.008767461	0.026209205
	May	226.88382	7.7798	11.27171	5.69389	0.053974	7.529314	219.41065	11.0037	1.612301524	0.011116159	0.033230337
	June	213.79581	7.63495	9.889029	6.25648	0.053047	7.299187	207.88345	10.3794	1.534411208	0.010579137	0.031624979
	July	177.86863	7.55593	8.981673	6.64347	0.044696	6.285544	172.54297	8.60868	1.279796731	0.008823675	0.026377248
	August	240.60113	7.63198	11.27742	6.565066	0.059216	8.131371	233.67556	11.6747	1.722272564	0.011874364	0.035496895
	September	253.79014	7.72304	11.87301	6.405386	0.06198	8.48948	246.34587	12.3164	1.813051206	0.012500246	0.037367888
	October	231.87161	7.83813	11.97907	6.690153	0.056539	7.86399	224.09837	11.2075	1.652507497	0.011393363	0.034059002
Junction 4	November	127.19243	7.26987	17.84853	8.170243	0.033857	6.144343	112.95695	5.54048	0.860001549	0.005929359	0.01772506
	December	421.89664	7.42629	49.30451	6.474214	0.10573	17.44342	380.43602	18.6995	2.809374817	0.01936949	0.057902614
	January	643.61078	7.47914	73.33326	5.109395	0.158116	25.88904	581.09576	28.6167	4.268137157	0.029427059	0.087968432
	February	659.88118	7.48868	75.22765	5.020457	0.161551	26.49891	595.64885	29.3466	4.37334512	0.030152425	0.090136821
	March	663.07046	7.47027	74.94988	5.026323	0.161428	26.6359	599.04937	29.544	4.396039781	0.030308895	0.090604569
	April	188.16268	7.78407	12.81941	8.065865	0.046801	6.737988	179.42087	8.94829	1.335720857	0.009209249	0.027529872
	May	221.19051	7.77605	10.98467	5.551447	0.052384	7.340646	213.92562	10.7282	1.571955461	0.01083799	0.032398785
	June	210.10102	7.63172	9.713754	6.14863	0.051894	7.173007	204.31001	10.2004	1.507934105	0.010396589	0.031079273
	July	174.9174	7.55261	8.827819	6.533346	0.043713	6.180995	169.68038	8.46617	1.258573021	0.008677346	0.025939817
	August	237.42073	7.62912	11.12331	6.478164	0.05819	8.023818	230.58242	11.5202	1.699437813	0.011716928	0.03502626
	September	250.32652	7.715	11.70614	6.318005	0.060894	8.374116	242.98377	12.1484	1.788395279	0.012330254	0.036859717
	October	229.40875	7.83474	11.84739	6.61941	0.0557	7.780471	221.72569	11.0891	1.634996185	0.01127263	0.033698086
Junction 5	November	127.10637	7.26899	17.83271	8.165336	0.033595	6.140738	112.88011	5.53729	0.859483214	0.005925785	0.017714377
	December	421.8536	7.42583	49.29515	6.473615	0.105479	17.44222	380.3976	18.6977	2.809234727	0.019368524	0.057899727
	January	643.60077	7.47879	73.32775	5.109395	0.157873	25.88844	581.08615	28.6163	4.268137157	0.029427059	0.087968432
	February	659.87117	7.48834	75.22315	5.020457	0.16131	26.49891	595.64885	29.3466	4.37334512	0.030152425	0.090136821
	March	663.06045	7.46994	74.94487	5.026323	0.161184	26.6359	599.04937	29.544	4.396039781	0.030308895	0.090604569
	April	188.16268	7.78095	12.8145	8.065865	0.046559	6.737988	179.42087	8.94829	1.335720857	0.009209249	0.027529872
	May	219.09792	7.77257	10.87571	5.498898	0.051645	7.271547	211.89875	10.6268	1.557105869	0.010735608	0.032092727
	June	208.71897	7.62815	9.645286	6.10853	0.051313	7.12614	202.96517	10.1337	1.49812777	0.010328978	0.030877159
	July	173.80456	7.549	8.767309	6.492169	0.043199	6.142541	168.61412	8.41264	1.250643899	0.008622678	0.025776394
	August	236.22082	7.62597	11.06245	6.445606	0.057656	7.98356	229.4201	11.4624	1.690892293	0.01165801	0.034850132
	September	249.01752	7.7169	11.64058	6.285327	0.060337	8.330254	241.72538	12.0853	1.779009215	0.01226554	0.036666266
	October	228.47704	7.83127	11.79473	6.592717	0.055234	7.749227	220.83233	11.0441	1.628411932	0.011227234	0.033562381
Junction 6	November	127.09636	7.26811	17.82781	8.165336	0.033354	6.140738	112.88011	5.53729	0.859483214	0.005925785	0.017714377
	December	421.8436	7.42538	49.29019	6.473615	0.105238	17.44222	380.3976	18.6977	2.809234727	0.019368524	0.057899727
	January	643.59076	7.47845	73.32275	5.109395	0.157632	25.88844	581.08615	28.6163	4.268137157	0.029427059	0.087968432
	February	659.87117	7.48799	75.21814	5.020457	0.161068	26.49891	595.64885	29.3466	4.37334512	0.030152425	0.090136821
	March	663.05044	7.4696	74.94037	5.026323	0.160943	26.6359	599.04937	29.544	4.396039781	0.030308895	0.090604569
	April	188.15267	7.77783	12.8096	8.065865	0.046318	6.737988	179.42087	8.94829	1.335720857	0.009209249	0.027529872
	May	219.08791	7.76927	10.87081	5.498898	0.051404	7.271547	211.89875	10.6268	1.557105869	0.010735608	0.032092727
	June	208.71897	7.62442	9.640381	6.10853	0.051072	7.12614	202.96517	10.1337	1.49812777	0.010328978	0.030877159
	July	173.80456	7.54525	8.762404	6.492169	0.042955	6.142541	168.61412	8.41264	1.250643899	0.008622678	0.025776394
	August	236.21081	7.62265	11.05755	6.445606	0.057415	7.98356	229.4201	11.4624	1.690892293	0.01165801	0.034850132
	September	249.00752	7.71411	11.63567	6.285327	0.060096	8.330254	241.72538	12.0853	1.779009215	0.01226554	0.036666266
	October	228.46704	7.82776	11.78978	6.592717	0.054991	7.749227	220.83233	11.0441	1.628411932	0.011227234	0.033562381
OutletSP04	November	871.3701	7.33429	88.24065	4.475344	0.185508	34.66393	793.91669	39.9699	5.75855995	0.039702914	0.118686788
	December	2.7593373	6.49727	3.062134	9.088103	0.044333	1.491923	2.5194617	0.47996	0.050906085	0.000350977	0.0010492
	January	2.7593373	6.49727	3.062134	9.088103	0.044333	1.491923	2.5194617	0.47996	0.050906085	0.000350977	0.0010492
	February	2.7593373	6.49727	3.062134	9.088103	0.044333	1.491923	2.5194617	0.47996	0.050906085	0.000350977	0.0010492
	March	2.7593373	6.49727	3.062134	9.088103	0.044333	1.491923	2.5194617	0.47996	0.050906085	0.000350977	0.0010492
	April	2.7593373	7.04478	2.184437	9.088103	0.044333	1.491923	2.5195577	0.47996	0.064734418	0.000446317	0.001334209
	May	782.7471	7.93124	21.81124	4.612999	0.181169	24.04141	770.29553	38.7894	5.588490087	0.038530352	0.115181564
	June	777.49012	7.84642	21.65268	4.643043	0.180223	23.87497	765.13711	38.5342	5.551366106	0.038274397	0.11441642
	July	775.06129	7.81172	21.57941	4.656929	0.179788	23.79806	762.76443	38.4136	5.534275065	0.038156562	0.114064165
	August	765.59412	7.81032	21.29648	4.711033	0.178087	23.49824	753.48503	37.9492	5.467591989	0.037696809	0.112689794
	September	690.15204	7.73935	19.09057	5.142312	0.164532	21.13988	679.49002	34.2589	4.935248102	0.034026516	0.101717921
	October	776.59445	7.97092	21.62766	4.64819	0.180063	23.84673	764.26297	38.4881	5.545202124	0.038231899	0.114289377
Lake A	November	251.90871	7.44217	18.7698	6.742342	0.06351	9.50132	237.61402	11.9357	1.751551478	0.012076231	0.036100348
	December	283.44962	7.43546	24.08306	6.681056	0.070773	10.94457	264.41476	13.2193	1.949079078	0.013438103	0.04017149
	January	337.17535	7.44956	31.26669	6.449915	0.083224	13.16774	311.78194	15.5324	2.295382785	0.015825725	0.047308982
	February	381.91228	7.4584	37.21403	6.255283	0.093539	15.01116	351.253	17.462	2.583689027	0.017813478	0.053251117
	March	426.76527	7.45959	43.06602	6.063164	0.103771	16.85939	390.91617	19.4057	2.873115993	0.019808959	0.059216351
	April	326.89968	7.78753	29.80432	6.915069	0.079396	12.55306	302.98285	15.0634	2.233462786	0.015398812	0.04603278
	May	248.69232	7.72056	14.33727	6.182026	0.066614	8.759865	238.63225	12.0225	1.757155098	0.012114865	0.036215842
	June	258.69182	7.61809	12.07186	6.126605	0.068898	8.838577	250.93754	12.65	1.84513193	0.01272143	0.038029088
	July	224.0606	7.55874	10.05294	6.306514	0.061329	7.727596	217.97935	10.9977	1.607258267	0.011081388	0.033126393
	August	233.79496	7.58176	10.04739	6.362893	0.063172	7.967337	227.83511	11.4854	1.67884451	0.011574946	0.034601821
	September	219.05583	7.65302	9.724365	6.40778	0.059987	7.502876	213.28202	10.7516	1.573916728	0.010851512	0.032439208
	October	222.98283	7.78928	10.13167	6.47984	0.059978	7.611631	216.84584	10.926	1.59969338	0.011029231	0.032970477
Junction 26	May	196.46479	7.48282	13.5659	6.972525	0.05216	7.369487	186.77906	9.39141	1.384570413	0.009546046	0.028536686
	June	202.78652	7.4105	10.50585	6.802192	0.05433	7.222878	196.1257	9.88381	1.45035691	0.009999617	0.029892578
	July	176.29446	7.34806	8.943334	6.935657	0.048569	6.370866	170.91956	8.62038	1.26846341	0.008745536	0.026143663
	August	185.11113	7.35372	8.965356	6.964984	0.050323	6.592581	179.82432	9.06173	1.33303112	0.009190704	0.027474435
	September	173.22015	7.43052	8.704145	7.004006	0.047741	6.218849	168.07618	8.46971	1.248402451	0.008607224	0.025730196
	October	183.07963	7.56319	9.184075	6.976236	0.049476	6.494041	177.5573	8.94404	1.316696568	0.009078084	0.027137772
Junction 27	May	202.32823	7.51882	14.74548	7.012146	0.052838	7.671717	191.58206	9.62113	1.419817182	0.009789058	0.029263139
	June	196.98013	7.39794	10.33878	6.872336	0.052608	7.055239	190.42934	9.59667	1.409450485	0.009717584	0.029049476
	July	171.3337	7.34212	8.823565	7.001014	0.047034	6.230265	166.0301	8.37364	1.233272677	0.00850291	0.025418364
	August	180.04229	7.33655	8.84844	7.027587	0.048778	6.449578	174.8292	8.80968	1.297069889	0.008942766	0.026733256
	September	168.45054	7.40657	8.593785	7.066011	0.046261	6.085459	163.37885	8.23255	1.214556587	0.008373871	0.025032616
	October	178.90947	7.5392	9.080722	7.028186	0.048169	6.377475	173.44594	8.73701	1.287137473	0.008874286	0.026528544
Junction 28	May	43.026841	7.19642	6.97672	8.784304	0.014071	2.70559	38.540233	1.92309	0.316016142	0.002178802	0.00651325
	June	40.797141	7.16164	5.99604	8.760484	0.013734	2.540175	37.235738	1.86502	0.306111744	0.002110515	0.006309115
	July	39.091748	7.15646	5.782226	8.743487	0.013469	2.47354	35.720872	1.7903	0.29511464	0.002034695	0.00608246
	August	40.152751	7.15024	5.771666	8.75821	0.013667	2.497995	36.808271	1.84358	0.303029753	0.002089266	0.006245594
	September	37.222036	7.12007	5.717562	8.773651	0.01345	2.407506	33.903416	1.6971	0.282114242	0.001945062	0.005814515
	October	43.613777	7.09387	5.920364	8.712604	0.015073	2.58626	40.148277	2.01143	0.3270973	0.002255202	0.006741638

Notes: [a] Regulatory criteria is for un-ionized ammonia

Table F: Dissolved Metals. Climate Change Conditions. Effluent solutions at sedimentation ponds in equilibrium with calcite. Mineral precipitation was allowed. Effluent pH of 8

Regulation[a]		Al mg/L	As mg/L	B mg/L	Ba mg/L	Be mg/L	Cd mg/L	Ca mg/L	Cr mg/L	Co mg/L	Cu mg/L	Fe mg/L	Li mg/L	Mg mg/L	Mn mg/L	Hg mg/L	Mo mg/L	Ni mg/L	P mg/L	Pb mg/L	K mg/L	Na mg/L	Sr mg/L	Se mg/L	Sb mg/L	Tl mg/L	Ti mg/L	U mg/L	Zn mg/L	Sn mg/L
MDMER			0.1								0.1							0.25		0.08									0.4	
Directive 019 (2025)			0.1								0.1	3						0.25		0.08									0.4	
CVAC (hardness 10mg/L)			0.15		0.038	0.000138	0.00005			0.1	0.0013	0.65	0.44		0.26	0.00091	3.2	0.007		0.00017			21	0.005	0.24	0.0072		0.014	0.017	
CVAA (hardness 10mg/L)			0.34		0.11	0.00124	0.0002			0.37	0.0016	3.4	0.91		0.6	0.0016	29	0.07		0.004			40	0.062	1.1	0.047		0.32	0.017	
CVAC (hardness 40mg/L)					0.165	0.001425046	0.00014				0.0043				0.86			0.024		0.00099									0.055	
CVAA (hardness 40mg/L)					0.47	0.012825099	0.0008				0.0059				1.9			0.22		0.025									0.055	
CVAC (hardness 400mg/L)					1.911	0.068822	0.0076				0.0305				6.52			0.169		0.01858									0.388	
CVAA (hardness 400mg/L)					5.45	0.61939	0.0087				0.0517				14.1			1.52		0.477									0.388	
CCME (long-term)		0.005[b]	0.005	1.5			0.00004[d]				0.002[g]	0.3			0.23[i]	0.000026	0.073	0.025[k]		0.001[m]				0.001		0.0008		0.015	0.02[o]	
CCME (long-term)		0.1[c]					0.00037[e]				0.004[h]				1.2[j]			0.15[l]		0.007[n]									0.312[p]	
CCME (long-term)							0.00007[f]																						0.037[q]	
Station	**Time**	**Effluent**																												
Effluent (pH 8)	n/a	0.398706202	0.03473	0.27582	0.05568	3.98717E-05	0.001822568	288.397	0.00649	0.00378107	0.05632	1.26081	0.03554	46.3083	0.25157	0.001001526	0.0502	0.0502	3.987252382	0.002515822	50.1944	25.0428	0.85245	0.003987164	0.005019921	0.00010015	0.01001	0.16351396	0.14145	2.0925E-05
	n/a	6.04656E-09	0.03473	0.27582	0.00729	3.98708E-05	0.001781762	300.886	0.00649	0.00378023	0.0061	0.01833	0.03554	13.9037	0.25046	0.001001526	0.0502	0.04789	6.97932E-06	5.10893E-05	50.1944	25.0405	0.85243	0.003987085	0.005019921	0.00010015	0.01001	0.163511579	0.12408	2.0925E-05
	n/a	0.203354463	0.03473	0.27582	0.00757	3.98717E-05	0.001809753	325.093	0.00649	0.003772667	0.01561	0.02054	0.03554	14.9201	0.25125	0.001001526	0.0502	0.04956	3.28229E-05	9.58466E-05	50.1944	25.0428	0.85244	0.003987164	0.005019921	0.00010015	0.01001	0.163511579	0.13577	2.0925E-05
Year 21 Historical Conditions																														
Junction 2	November	0.089754089	0.00131	0.07481	0.00422	6.17668E-06	7.32119E-05	9.44879	0.00076	0.000124852	0.00688	0.02142	0.00122	0.56886	0.02604	2.73364E-05	0.00168	0.00385	0.007952823	0.000166659	1.64365	1.10889	0.02959	0.000353867	0.000242802	0.00034261	0.00229	0.0040672	0.02192	5.19617E-07
	December	0.112909646	0.00789	0.11501	0.00492	1.28559E-05	0.000415179	71.5553	0.00189	0.000842877	0.00867	0.01974	0.00797	3.39444	0.07054	0.000219044	0.01123	0.01287	0.00041511	0.000171715	11.2005	5.82239	0.19157	0.001071171	0.00118386	0.00029813	0.00383	0.035440124	0.0445	4.53448E-06
	January	0.112167654	0.00763	0.11356	0.0049	1.26026E-05	0.000401745	69.1065	0.00185	0.000814643	0.00861	0.01976	0.00771	3.28336	0.06883	0.000211482	0.01085	0.01252	0.000441686	0.000170942	10.824	5.63755	0.1852	0.001043377	0.001146979	0.00030059	0.00377	0.034202374	0.04365	4.37613E-06
	February	0.088092027	0.00047	0.0707	0.0042	5.39875E-06	2.96908E-05	1.48521	0.00063	3.3035E-05	0.00675	0.02201	0.00035	0.20874	0.02063	2.73344E-06	0.00046	0.00273	0.008217649	0.000167235	0.42136	0.51056	0.0089	0.000265621	0.000123672	0.0003536	0.00212	3.46165E-05	0.01931	3.53566E-09
	March	0.129929601	0.01291	0.14516	0.00501	1.79117E-05	0.000675833	118.931	0.00275	0.001390444	0.01005	0.01952	0.01312	5.54859	0.10434	0.000365274	0.01851	0.01973	0.000180212	0.000184659	18.488	9.41454	0.31508	0.001616469	0.001900917	0.00026161	0.00498	0.059371551	0.06159	7.59732E-06
	April	0.129058097	0.00047	0.0707	0.0042	5.39875E-06	2.96357E-05	1.48521	0.00063	3.30294E-05	0.00391	0.01847	0.00035	0.20874	0.02062	2.73344E-06	0.00046	0.00272	0.009107835	0.000149008	0.42136	0.51056	0.0089	0.000265629	0.000123672	0.0003536	0.00212	3.46165E-05	0.01911	3.53566E-09
	May	0.088137895	0.00543	0.08888	0.00394	9.55562E-06	0.00028253	45.2841	0.00138	0.000578939	0.00378	0.01646	0.00547	2.18891	0.05095	0.000149271	0.0077	0.00891	0.000178849	0.000168756	7.67539	4.03424	0.13154	0.000768233	0.000823292	0.00025624	0.00292	0.024088526	0.03133	3.08219E-06
	June	0.089211761	0.00727	0.10403	0.00436	1.1705E-05	0.000376834	61.1831	0.00173	0.00077879	0.00413	0.01759	0.00735	2.92462	0.06434	0.000202175	0.01035	0.01146	0.000127903	0.000171622	10.329	5.36052	0.17662	0.00098092	0.001089326	0.00026447	0.00347	0.032721834	0.03804	4.18678E-06
	July	0.099955809	0.00469	0.08908	0.00416	9.14196E-06	0.00024468	38.5719	0.00129	0.000495917	0.00397	0.01788	0.0047	1.89159	0.04713	0.000126727	0.0066	0.00807	0.000325101	0.00016945	6.57164	3.51123	0.11295	0.000701812	0.000720369	0.00028634	0.00289	0.02037099	0.03025	2.60628E-06
	August	0.104011135	0.00395	0.08533	0.00413	8.44901E-06	0.00020744	32.1069	0.00117	0.000415164	0.00395	0.01812	0.00394	1.59725	0.04236	0.000105141	0.00553	0.00712	0.000434965	0.000168982	5.49878	2.98522	0.09479	0.000623879	0.000615619	0.00029527	0.00274	0.016833643	0.02817	2.15352E-06
	September	0.093183443	0.00699	0.10381	0.00442	1.15257E-05	0.00036231	58.6221	0.00169	0.000747055	0.00419	0.01805	0.00705	2.81063	0.06281	0.000193577	0.00993	0.01113	0.000123418	0.000171804	9.90712	5.15936	0.16951	0.000954547	0.001049669	0.00027449	0.00345	0.031305562	0.03756	4.00575E-06
	October	0.096704534	0.00657	0.10232	0.00445	1.11787E-05	0.000340997	54.9269	0.00163	0.000701034	0.00421	0.01825	0.00662	2.6439	0.06026	0.000181221	0.00932	0.01061	0.000126057	0.000170472	9.29562	4.86257	0.15917	0.000912304	0.000990737	0.00028289	0.00338	0.029277556	0.03653	3.74613E-06
Junction 3	November	0.102057671	0.00521	0.0971	0.00403	1.77216E-05	0.000293895	46.775	0.00139	0.000579415	0.00848	0.01952	0.00618	2.59067	0.05222	0.000137537	0.00734	0.00943	0.000646608	0.000312893	7.54206	4.02298	0.14048	0.000797101	0.000833557	0.0003089	0.00785	0.022463978	0.03847	2.8342E-06
	December	0.14222239	0.0166	0.16577	0.00422	4.70328E-05	0.000927528	155.539	0.00329	0.001889106	0.01216	0.01899	0.02008	8.16016	0.12949	0.000461156	0.02387	0.02568	8.28053E-05	0.000354167	24.6222	12.4708	0.4553	0.00208944	0.002541618	0.0002287	0.02136	0.076247801	0.08545	9.62513E-06
	January	0.171224846	0.02517	0.21661	0.00347	6.63945E-05	0.001397756	236.725	0.00471	0.002864303	0.0148	0.01886	0.03021	12.7538	0.18732	0.000705816	0.0363	0.03778	4.46549E-05	0.000383589	37.3889	18.7774	0.68698	0.003050699	0.003813523	0.000164	0.0299	0.116791265	0.11938	1.4758E-05
	February	0.173337501	0.0258	0.22035	0.00332	6.71966E-05	0.001430693	242.496	0.00482	0.002933207	0.01498	0.01884	0.03088	13.2051	0.19154	0.00072401	0.03721	0.03864	4.24898E-05	0.000385268	38.3038	19.2286	0.70273	0.003119236	0.003903747	0.00015936	0.03015	0.119773767	0.12158	1.51391E-05
	March	0.173871735	0.02596	0.22139	0.00342	6.58664E-05	0.001435527	244.075	0.00485	0.002944971	0.01498	0.01889	0.03085	13.0197	0.19259	0.000729345	0.03744	0.0388	4.43018E-05	0.00038533	38.4907	19.3188	0.70377	0.003132343	0.003919941	0.00015847	0.02927	0.120580685	0.12146	1.52495E-05
	April	0.099008757	0.00811	0.11619	0.00391	1.72565E-05	0.000429972	68.9943	0.00192	0.000883772	0.00505	0.01825	0.00871	3.85963	0.0719	0.000223357	0.01154	0.01293	9.06199E-05	0.000308044	11.6392	6.0447	0.20497	0.001106782	0.001233307	0.00029634	0.00643	0.036339874	0.04432	4.62815E-06
	May	0.061064619	0.00976	0.11018	0.00343	1.55902E-05	0.000508078	83.8472	0.00208	0.001060515	0.00434	0.01485	0.01017	4.25386	0.07883	0.000275069	0.01399	0.01454	6.01387E-05	0.000309412	14.0336	7.15051	0.24204	0.001229328	0.001446265	0.00020033	0.00501	0.044801801	0.04432	5.72242E-06
	June	0.070454195	0.00926	0.11104	0.00404	1.78306E-05	0.000488742	79.2903	0.00202	0.001014466	0.00457	0.01606	0.00996	3.83873	0.07655	0.000258861	0.01326	0.01409	7.03352E-05	0.000311587	13.3724	6.84566	0.23444	0.001194981	0.001389647	0.00022435	0.00651	0.04223585	0.04485	5.38136E-06
	July	0.078796886	0.00775	0.10323	0.00401	1.58461E-05	0.000410176	65.9363	0.00177	0.000846574	0.00451	0.01651	0.00833	3.21166	0.06671	0.000214792	0.01106	0.01212	9.83943E-05	0.000312686	11.1528	5.75641	0.19607	0.001032955	0.001171977	0.00024211	0.00587	0.03499263	0.0403	4.45709E-06
	August	0.072758418	0.01039	0.12123	0.00411	1.9351E-05	0.000547209	89.1335	0.00224	0.001137822	0.00485	0.01701	0.01113	4.37952	0.08502	0.000291237	0.01489	0.0157	5.76174E-05	0.000319896	15.0075	7.66686	0.26242	0.001329134	0.001554875	0.00023396	0.00696	0.047520092	0.04927	6.05682E-06
	September	0.069501746	0.01094	0.12386	0.00407	1.96835E-05	0.000574627	93.9629	0.00233	0.001196951	0.00485	0.01679	0.01167	4.65392	0.08851	0.000307284	0.01568	0.01639	5.29837E-05	0.000318446	15.7961	8.0524	0.27554	0.001385827	0.00163134	0.0002266	0.00696	0.05014555	0.0507	6.39372E-06
	October	0.075656235	0.00999	0.11926	0.00395	1.81271E-05	0.000524636	85.6307	0.00217	0.001090401	0.00481	0.01706	0.01061	4.38365	0.08241	0.000279803	0.0143	0.01515	5.98227E-05	0.000316166	14.394	7.36523	0.25084	0.001284126	0.001493752	0.00023917	0.00636	0.045606339	0.04778	5.81643E-06
Junction 4	November	0.101839121	0.0052	0.09689	0.00402	1.76837E-05	0.000293434	46.6748	0.00139	0.00057821	0.00891	0.01948	0.00616	2.58508	0.05211	0.000137242	0.00732	0.00941	0.000652091	0.000459611	7.52603	4.01447	0.14017	0.000795443	0.000831767	0.00030823	0.00783	0.022415897	0.03845	2.82815E-06
	December	0.142192711	0.0166	0.16574	0.00422	4.70238E-05	0.000927505	155.507	0.00329	0.00188877	0.01262	0.01899	0.02008	8.15846	0.12947	0.000461056	0.02386	0.02568	8.29973E-05	0.000501486	24.6175	12.4683	0.45521	0.002089045	0.002541131	0.00022866	0.02136	0.076231139	0.0855	9.62323E-06
	January	0.171222148	0.02517	0.2166	0.00347	6.63936E-05	0.001397868	236.721	0.00471	0.002864303	0.01526	0.01886	0.03021	12.7536	0.18732	0.000705816	0.0363	0.03778	4.47199E-05	0.000530971	37.3885	18.7771	0.68697	0.003050699	0.003813401	0.000164	0.0299	0.116788885	0.11944	1.4758E-05
	February	0.173337501	0.0258	0.22035	0.00332	6.71966E-05	0.001430805	242.492	0.00482	0.002933207	0.01543	0.01884	0.03088	13.2051	0.19154	0.00072401	0.03721	0.03864	4.25518E-05	0.000532649	38.3038	19.2286	0.70273	0.003119236	0.003903747	0.00015936	0.03015	0.119773767	0.12164	1.51391E-05
	March	0.173871735	0.02596	0.22139	0.00342	6.58664E-05	0.001435639	244.075	0.00485	0.002944971	0.01544	0.01889	0.03065	13.0197	0.1926	0.000729345	0.03744	0.0388	4.43637E-05	0.000532711	38.4907	19.3188	0.70377	0.003132343	0.003919941	0.0001847	0.02927	0.120580685	0.12153	1.52495E-05
	April	0.099008757	0.00811	0.11619	0.00391	1.72565E-05	0.00043013	68.9903	0.00192	0.000883828	0.0055	0.01825	0.00871	3.85963	0.0719	0.000223357	0.01154	0.01294	9.1512E-05	0.000455426	11.6392	6.0447	0.20497	0.001106782	0.001233307	0.00029634	0.00643	0.036339874	0.04438	4.62815E-06
	May	0.059534766	0.00951	0.10742	0.00335	1.51999E-05	0.000495521	81.7431	0.00203	0.001034017	0.00469	0.01448	0.00991	4.14716	0.07685	0.000268189	0.01364	0.01418	6.27993E-05	0.000449065	13.6821	6.97142	0.23599	0.001198613	0.001410103	0.00019532	0.00489	0.043680685	0.04328	5.57913E-06
	June	0.069240025	0.0091	0.10913	0.00397	1.75233E-05	0.000480491	77.916	0.00198	0.000997044	0.00495	0.01578	0.00979	3.77262	0.07523	0.000254388	0.01303	0.01385	7.2683E-05	0.000453602	13.1421	6.72773	0.23041	0.001174451	0.001365782	0.00022049	0.0064	0.041507481	0.04414	5.28865E-06
	July	0.07749098	0.00762	0.10152	0.00394	1.55839E-05	0.000403533	64.8422	0.00174	0.000832569	0.0049	0.01624	0.0082	3.15643	0.0656	0.000211241	0.01087	0.01192	0.000101764	0.000454887	10.9679	5.661	0.19282	0.00101582	0.001152544	0.00023809	0.00577	0.03441184	0.0397	4.38313E-06
	August	0.071795177	0.01026	0.11962	0.00406	1.9095E-05	0.000540138	87.9552	0.00221	0.001122809	0.00524	0.01679	0.01093	4.32167	0.0839	0.000287385	0.01469	0.01549	5.91351E-05	0.000463051	14.8089	7.56547	0.25895	0.001311526	0.001534298	0.00023087	0.00687	0.046891695	0.04868	5.97669E-06
	September	0.068554694	0.01079	0.12217	0.00401	1.94149E-05	0.00056696	92.6804	0.00229	0.00118065	0.00524	0.01656	0.01151	4.59049	0.08731	0.000303091	0.01547	0.01617	5.46098E-05	0.000461476	15.5807	7.94274	0.27178	0.001366877	0.00160918	0.00022351	0.00687	0.049460027	0.05007	6.30647E-06
	October	0.074854884	0.00988	0.11799	0.00391	1.79351E-05	0.000519252	84.7209	0.00215	0.001078889	0.00522	0.01688	0.0105	4.33723	0.08154	0.000276834	0.01415	0.01499	6.1232E-05	0.000460191	14.2419	7.2873	0.24818	0.001270545	0.001477923	0.00023663	0.00629	0.045125521	0.04734	5.75494E-06
Junction 5	November	0.101777063	0.0052	0.09683	0.00402	1.76729E-05	0.000293412	46.6428	0.00139	0.000577902	0.00936	0.01947	0.00616	2.58362	0.05208	0.000137159	0.00732	0.00941	0.00065621	0.000606723	7.52134	4.01194	0.14009	0.00079489	0.000831256	0.00030805	0.00783	0.022402329	0.03849	2.82649E-06
	December	0.14217922	0.0166	0.16572	0.00422	4.70193E-05	0.000927584	155.491	0.00329	0.00188863	0.01307	0.01899	0.02007	8.15773	0.12946	0.000461016	0.02386	0.02568	8.31769E-05	0.000648826	24.6151	12.4671	0.45517	0.002088808	0.002540888	0.00022864	0.02136	0.076223998	0.08555	9.6224E-06
	January	0.17121945	0.02517	0.2166	0.00347	6.63927E-05	0.001398093	236.717	0.00471	0.002864303	0.01571	0.01886	0.03021	12.7536	0.18732	0.000705816	0.0363	0.03778	4.4785E-05	0.000678352	37.3881	18.7769	0.68696	0.00305062	0.003813401	0.000164	0.0299	0.116788885	0.1195	1.4758E-05
	February	0.173337501	0.0258	0.22035	0.00332	6.71966E-05	0.00143103	242.488	0.00482	0.002933207	0.01589	0.01884	0.03088	13.2051	0.19155	0.00072401	0.03721	0.03864	4.26137E-05	0.0006803	38.3038	19.2286	0.70273	0.003119236	0.003903747	0.00015936	0.03015	0.119773767	0.1217	1.51391E-05
	March	0.173871735	0.02596	0.22139	0.00342	6.58664E-05	0.001435864	244.071	0.00485	0.002945252	0.01589	0.01889	0.03065	13.0197	0.1926	0.000729345	0.03744	0.03881	4.44288E-05	0.000680093	38.4907	19.3188	0.70377	0.003132343	0.003919941	0.00015847	0.02927	0.120580685	0.12159	1.52495E-05
	April	0.099008757	0.00811	0.11619	0.00391	1.72565E-05	0.000430298	68.9903	0.00192	0.000883856	0.00596	0.01825	0.00871	3.85963	0.0719	0.000223357	0.01154	0.01294	9.24102E-05	0.000602807	11.6392	6.0447	0.20497	0.001106782	0.001233307	0.00029634	0.00643	0.036339874	0.04444	4.62815E-06
	May	0.058970852	0.00942	0.1064	0.00331	1.50567E-05	0.000490991	80.9696	0.00201	0.00102427	0.0051	0.01434	0.00982	4.10803	0.07613	0.000265661	0.01351	0.01404	6.42334E-05	0.000592178	13.5526	6.90544	0.23375	0.001187243	0.001396709	0.00019347	0.00484	0.043266515	0.04293	5.52631E-06
	June	0.068786736	0.00904	0.10841	0.00394	1.74088E-05	0.000477512	77.4066	0.00197	0.000990546	0.00537	0.01568	0.00972	3.74807	0.07474	0.000252723	0.01294	0.01376	7.41264E-05	0.000598021	13.0561	6.68359	0.2289	0.001166713	0.001356772	0.00021904	0.00636	0.041236128	0.04392	5.25399E-06
	July	0.077002614	0.00757	0.10088	0.00392	1.54856E-05	0.000401161	64.4294	0.00173	0.000827359	0.00532	0.01613	0.00814	3.1385	0.06519	0.000209897	0.01081	0.01185	0.000103871	0.000599409	10.8987	5.62514	0.1916	0.001009425	0.001145287	0.00023659	0.00573	0.034195233	0.03951	4.35559E-06
	August	0.071436323	0.0102	0.11903	0.00404	1.89986E-05	0.000537586	87.5103	0.0022	0.001117179	0.00567	0.0167	0.01093	4.30004	0.08348	0.000285941	0.01462	0.01541	6.01015E-05	0.000608091	14.7342	7.52731	0.25766	0.001304972	0.001526505	0.00022971	0.00683	0.046656047	0.0485	5.94666E-06
	September	0.068198538	0.01073	0.12154	0.00399	1.93149E-05	0.000564183	92.1954	0.00228	0.001174571	0.00567	0.01648	0.01145	4.56667	0.08686	0.000301527	0.01539	0.01609	5.52665E-05	0.000606474	15.5001	7.90158	0.27037	0.001359849	0.001600779	0.00022235	0.00683	0.049205336	0.04987	6.27382E-06
	October	0.07455269	0.00984	0.11752	0.00389	1.7863E-05	0.000517329	84.3762	0.00214	0.001074576	0.00565	0.01681	0.01046	4.31997	0.08121	0.000275731	0.0141	0.01493	6.21705E-05	0.000605728	14.1845	7.25787	0.24718	0.001265413	0.001471957	0.00023569	0.00627	0.044942238	0.04721	5.73167E-06

Notes: [a] Regulation criteria applies to total concentrations.

CCME criteria for:

Aluminium depends on pH conditions. Values are provided for reference given [b] pH<6.5 and [c] pH>=6.5

Cadmium depends on hardness concentrations. Values are provided for reference given a hardness of [d] 0--17, [e] >=280 and [f] 40 mg/L.

Copper depends on hardness concentrations. Values are provided for reference given a hardness of [g] 0−82 and [h] >=180 mg/L.

Manganese depends on hardness concentrations and pH conditions. Values are provided for reference given a hardness of [i] 10-24 and [j] >=670 mg/L and pH of [i] 6.7-6.9 and [j] 6.5-6.7.

Nickel depends on hardness concentrations. Values are provided for reference given a hardness of [k] <=60 and [l] >=180 mg/L.

Lead depends on hardness concentrations. Values are provided for reference given a hardness of [m] <=60 and [n] >=180 mg/L.

Zinc depends on hardness and DOC concentrations, and pH conditions. Values are provided for reference given a pH of [o,p,q] 6.5-6.7, [o,p,q] DOC 8 mg/L and hardness [o] 8, [p] 399, and [q] 38 mg/L.

Table F: Dissolved Metals. Climate Change Conditions. Effluent solutions at sedimentation ponds in equilibrium with calcite. Mineral precipitation was allowed. Effluent pH of 8

Regulation[a]		Al mg/L	As mg/L	B mg/L	Ba mg/L	Be mg/L	Cd mg/L	Ca mg/L	Cr mg/L	Co mg/L	Cu mg/L	Fe mg/L	Li mg/L	Mg mg/L	Mn mg/L	Hg mg/L	Mo mg/L	Ni mg/L	P mg/L	Pb mg/L	K mg/L	Na mg/L	Sr mg/L	Se mg/L	Sb mg/L	Tl mg/L	Ti mg/L	U mg/L	Zn mg/L	Sn mg/L
MDMER			0.1								0.1							0.25		0.08									0.4	
Directive 019 (2025)			0.1								0.1	3						0.25		0.08									0.4	
CVAC (hardness 10mg/L)			0.15		0.038	0.000138	0.00005			0.1	0.0013	0.65	0.44		0.26	0.00091	3.2	0.007		0.00017			21	0.005	0.24	0.0072		0.014	0.017	
CVAA (hardness 10mg/L)			0.34		0.11	0.00124	0.0002			0.37	0.0016	3.4	0.91		0.6	0.0016	29	0.07		0.004			40	0.062	1.1	0.047		0.32	0.017	
CVAC (hardness 40mg/L)					0.165	0.001425046	0.00014				0.0043				0.86			0.024		0.00099									0.055	
CVAA (hardness 40mg/L)					0.47	0.012825099	0.0008				0.0059				1.9			0.22		0.025									0.055	
CVAC (hardness 400mg/L)					1.911	0.068822	0.0076				0.0305				6.52			0.169		0.01858									0.388	
CVAA (hardness 400mg/L)					5.45	0.61939	0.0087				0.0517				14.1			1.52		0.477									0.388	
CCME (long-term)		0.005[b]	0.005	1.5			0.00004[d]				0.002[g]	0.3			0.23[i]	0.000026	0.073	0.025[k]		0.001[m]				0.001		0.0008		0.015	0.02[o]	
CCME (long-term)		0.1[c]					0.00037[e]				0.004[h]				1.2[j]			0.15[l]		0.007[n]									0.312[p]	
CCME (long-term)							0.00007[f]																						0.037[q]	
Station	**Time**	**Effluent**																												
Junction 6	November	0.101777063	0.0052	0.09683	0.00402	1.76729E-05	0.00029358	46.6388	0.00139	0.00057793	0.00982	0.01947	0.00616	2.58362	0.05209	0.000137159	0.00732	0.00941	0.000659772	0.000754104	7.52134	4.01194	0.14009	0.00079489	0.000831256	0.00030805	0.00783	0.022402329	0.03855	2.82649E-06
Junction 6	December	0.14217922	0.0166	0.16572	0.00422	4.70193E-05	0.000927753	155.487	0.00329	0.001888658	0.01353	0.01899	0.02007	8.15773	0.12947	0.000461016	0.02386	0.02568	8.33504E-05	0.000796207	24.6151	12.4671	0.45517	0.002088808	0.002540888	0.00022864	0.02136	0.076223998	0.08561	9.6224E-06
Junction 6	January	0.17121945	0.02517	0.2166	0.00347	6.63927E-05	0.001398205	236.713	0.00471	0.002864303	0.01617	0.01886	0.03021	12.7536	0.18732	0.000705816	0.0363	0.03778	4.48531E-05	0.000825733	37.3881	18.7769	0.68696	0.00305062	0.003813401	0.000164	0.0299	0.116788885	0.11956	1.4758E-05
Junction 6	February	0.173337501	0.0258	0.22035	0.00332	6.71966E-05	0.001431143	242.488	0.00482	0.002933487	0.01635	0.01884	0.03088	13.2051	0.19155	0.00072401	0.03721	0.03864	4.26726E-05	0.000827412	38.3038	19.2286	0.70273	0.003119236	0.003903747	0.00015936	0.03015	0.119773767	0.12176	1.51391E-05
Junction 6	March	0.173871735	0.02596	0.22139	0.00342	6.58664E-05	0.001435976	244.067	0.00485	0.002945252	0.01635	0.01889	0.03085	13.0197	0.1926	0.000729345	0.03744	0.03881	4.44907E-05	0.000827474	38.4907	19.3188	0.70377	0.003132343	0.003919941	0.00015847	0.02927	0.120580685	0.12165	1.52495E-05
Junction 6	April	0.099008757	0.00811	0.11619	0.00391	1.72565E-05	0.000430467	68.9863	0.00192	0.000883884	0.00641	0.01825	0.00871	3.85963	0.07191	0.000223357	0.01154	0.01294	9.33208E-05	0.000750209	11.6392	6.0447	0.20497	0.001106782	0.001233307	0.00029634	0.00643	0.036339874	0.0445	4.62815E-06
Junction 6	May	0.058970852	0.00942	0.1064	0.00401	1.50567E-05	0.000491159	80.9656	0.00201	0.001024298	0.00566	0.01434	0.00982	4.10803	0.07613	0.000265661	0.01351	0.01405	6.48807E-05	0.000739559	13.5526	6.90544	0.23375	0.001187243	0.001396709	0.00019347	0.00484	0.043266515	0.04299	5.52631E-06
Junction 6	June	0.068786736	0.00904	0.10841	0.00394	1.74088E-05	0.000477681	77.4066	0.00197	0.000990574	0.00582	0.01568	0.00972	3.74807	0.07475	0.000252723	0.01294	0.01377	7.49875E-05	0.000745402	13.0561	6.48359	0.2289	0.001166713	0.001356772	0.00021904	0.00636	0.041236128	0.04398	5.25399E-06
Junction 6	July	0.077002614	0.00757	0.10088	0.00392	1.54856E-05	0.000401329	64.4294	0.00173	0.000827387	0.00578	0.01613	0.00814	3.1385	0.06519	0.000209897	0.01081	0.01185	0.000105156	0.00074679	10.8987	5.62514	0.1916	0.001009425	0.001145287	0.00023659	0.00573	0.034195233	0.03957	4.35559E-06
Junction 6	August	0.071436323	0.0102	0.11903	0.00404	1.89986E-05	0.000537755	87.5063	0.0022	0.001117207	0.00613	0.0167	0.01093	4.30004	0.08349	0.000285941	0.01462	0.01542	6.07179E-05	0.000755472	14.7342	7.52731	0.25766	0.001304972	0.001526505	0.00022971	0.00683	0.046656047	0.04856	5.94666E-06
Junction 6	September	0.068198538	0.01073	0.12154	0.00399	1.93149E-05	0.000564352	92.1914	0.00228	0.001174599	0.00612	0.01648	0.01145	4.56667	0.08686	0.000301527	0.01539	0.01609	5.57404E-05	0.000753856	15.5001	7.90158	0.27037	0.001359849	0.001600779	0.00022235	0.00683	0.049205336	0.04994	6.27382E-06
Junction 6	October	0.07455269	0.00984	0.11752	0.00389	1.7863E-05	0.000517487	84.3722	0.00214	0.001074632	0.00611	0.01681	0.01046	4.31997	0.08121	0.000275731	0.0141	0.01493	6.28086E-05	0.00075311	14.1845	7.25787	0.24718	0.001265413	0.001471957	0.00023569	0.00627	0.044942238	0.04727	5.73167E-06
OutletSP04	November	0.203427313	0.03465	0.27538	0.00298	3.98149E-05	0.001806268	324.411	0.00648	0.003764824	0.016	0.01942	0.03546	14.8895	0.25076	0.00099944	0.0501	0.04946	4.86133E-05	0.000238197	50.0927	24.9899	0.85069	0.003978794	0.005009572	0.00010069	0.01	0.163168818	0.13556	2.08811E-05
OutletSP04	December	0.237747831	0.00022	0.0707	0.00567	1.30091E-05	7.96419E-05	0.57179	0.00013	4.82332E-05	0.00612	0.02927	0.00035	0.32335	0.01763	2.18001E-06	0.00017	0.00077	0.017277164	0.000149681	0.51668	0.8317	0.017	8.91222E-06	6.74733E-05	0.00035356	0.00212	0.000137981	0.00879	3.53578E-09
OutletSP04	January	0.237747831	0.00022	0.0707	0.00567	1.30091E-05	7.96419E-05	0.57179	0.00013	4.82332E-05	0.00612	0.02927	0.00035	0.32335	0.01763	2.18001E-06	0.00017	0.00077	0.017277164	0.000149681	0.51668	0.8317	0.017	8.91222E-06	6.74733E-05	0.00035356	0.00212	0.000137981	0.00879	3.53578E-09
OutletSP04	February	0.237747831	0.00022	0.0707	0.00567	1.30091E-05	7.96419E-05	0.57179	0.00013	4.82332E-05	0.00612	0.02927	0.00035	0.32335	0.01763	2.18001E-06	0.00017	0.00077	0.017277164	0.000149681	0.51668	0.8317	0.017	8.91222E-06	6.74733E-05	0.00035356	0.00212	0.000137981	0.00879	3.53578E-09
OutletSP04	March	0.237747831	0.00022	0.0707	0.00567	1.30091E-05	7.96419E-05	0.57179	0.00013	4.82332E-05	0.00612	0.02927	0.00035	0.32335	0.01763	2.18001E-06	0.00017	0.00077	0.017277164	0.000149681	0.51668	0.8317	0.017	8.91222E-06	6.74733E-05	0.00035356	0.00212	0.000137981	0.00879	3.53578E-09
OutletSP04	April	0.091070789	0.00022	0.0707	0.00567	1.30091E-05	7.95082E-05	0.57179	0.00013	4.82136E-05	0.00343	0.02073	0.00035	0.32335	0.01762	2.18001E-06	0.00017	0.00077	0.018627001	0.000130318	0.51668	0.8317	0.017	8.91222E-06	6.74733E-05	0.00035356	0.00212	0.000137981	0.00872	3.53578E-09
OutletSP04	May	1.95025E-07	0.03363	0.26927	0.00359	3.90137E-05	0.001727578	291.299	0.00629	0.003661187	0.00645	0.01824	0.03441	13.4467	0.24304	0.000969632	0.0486	0.04638	1.03994E-05	0.000195715	48.6109	24.268	0.82577	0.003860196	0.004861877	0.00010824	0.00976	0.158298746	0.12046	2.02579E-05
OutletSP04	June	2.21413E-07	0.0334	0.26794	0.00475	3.88398E-05	0.001716449	289.347	0.00625	0.003636818	0.00643	0.01827	0.03418	13.3537	0.24152	0.000963153	0.04828	0.04608	9.7078E-06	0.00019533	48.2864	24.1117	0.82035	0.003834377	0.004829732	0.00010988	0.00971	0.157237137	0.11971	2.01213E-05
OutletSP04	July	2.26005E-07	0.0333	0.26732	0.00623	3.87587E-05	0.001711391	288.445	0.00623	0.003625895	0.00642	0.01829	0.03408	13.3106	0.24083	0.000960144	0.04813	0.04594	9.41633E-06	0.000195216	48.1378	24.0381	0.81784	0.003822454	0.004814877	0.00011064	0.00969	0.156746798	0.11936	2.00584E-05
OutletSP04	August	6.13075E-07	0.03289	0.26492	0.00508	3.84451E-05	0.001691493	284.931	0.00615	0.003582199	0.00638	0.01829	0.03367	13.1429	0.2381	0.00094845	0.04754	0.04539	1.00863E-05	0.000194364	47.5553	23.7553	0.80807	0.003775867	0.00475692	0.00011361	0.00959	0.154835426	0.11802	1.98139E-05
OutletSP04	September	0.00130596	0.02968	0.24579	0.0043	3.59388E-05	0.001532652	256.904	0.00556	0.003234035	0.00608	0.01836	0.03038	11.8171	0.21638	0.000855215	0.04288	0.04099	1.61816E-05	0.000187655	42.9221	21.497	0.73012	0.003404676	0.00429484	0.00013725	0.00886	0.139592054	0.10724	1.78623E-05
OutletSP04	October	4.28926E-07	0.03336	0.26771	0.00298	3.88101E-05	0.001714651	289.014	0.00624	0.003632897	0.00643	0.01823	0.03415	13.3379	0.24127	0.00096205	0.04822	0.04603	1.13822E-05	0.000195238	48.2317	24.0841	0.81943	0.003829955	0.004824253	0.00011016	0.0097	0.157058616	0.11958	2.00988E-05
Lake A	November	0.089330479	0.01054	0.12383	0.00411	1.97646E-05	0.000565184	93.2856	0.00222	0.001155188	0.00837	0.01828	0.01121	4.60774	0.08633	0.000296612	0.01511	0.01591	0.000151502	0.000882734	15.2515	7.82802	0.26622	0.001317842	0.001570948	0.00024052	0.00652	0.048376996	0.05027	6.16924E-06
Lake A	December	0.098590544	0.01168	0.13159	0.00416	2.41454E-05	0.000631958	104.868	0.00242	0.001290785	0.00968	0.01842	0.01278	5.2438	0.0944	0.000328005	0.01676	0.01771	0.000132877	0.001009064	16.9949	8.69105	0.30039	0.001459497	0.001750056	0.00023747	0.00884	0.053656477	0.05651	6.82808E-06
Lake A	January	0.109291422	0.0137	0.14432	0.0041	2.99295E-05	0.000745698	124.578	0.00277	0.001524668	0.01106	0.0185	0.01533	6.33874	0.10831	0.000384892	0.01969	0.02069	0.00010305	0.001123107	20.0359	10.1944	0.35727	0.00169614	0.00205677	0.00022633	0.01166	0.063139549	0.06575	8.02207E-06
Lake A	February	0.11806312	0.01539	0.15492	0.00403	3.46302E-05	0.00084025	140.966	0.00305	0.001719226	0.01221	0.01856	0.01743	7.26549	0.1199	0.000432412	0.02213	0.02318	8.65655E-05	0.001224676	22.5671	11.4457	0.40447	0.001892829	0.002311979	0.00021691	0.01393	0.071049249	0.07337	9.01864E-06
Lake A	March	0.12683212	0.01709	0.16557	0.00399	3.90714E-05	0.000934666	157.458	0.00334	0.001913867	0.01328	0.01862	0.01952	8.15724	0.13155	0.000480333	0.02459	0.02566	7.56565E-05	0.00130391	25.1054	12.6998	0.45139	0.002089755	0.002567431	0.00020743	0.01604	0.079016077	0.08089	1.0024E-05
Lake A	April	0.1137083	0.01336	0.14518	0.00398	2.96483E-05	0.000724182	120.446	0.00275	0.001484754	0.0107	0.01827	0.01498	6.34895	0.10679	0.000373739	0.01917	0.02035	4.50575E-05	0.001197575	19.5007	9.92951	0.34832	0.001681216	0.00201184	0.00024493	0.01183	0.061297205	0.0656	7.78548E-06
Lake A	May	0.069752675	0.01054	0.1199	0.00388	1.99241E-05	0.000567522	91.9349	0.00215	0.001159334	0.00658	0.01702	0.01121	4.64566	0.0851	0.000297856	0.01513	0.01552	5.94944E-05	0.000755368	15.2964	7.85514	0.26712	0.001284679	0.001564494	0.00021912	0.00627	0.048612644	0.04743	6.19951E-06
Lake A	June	0.062837306	0.01108	0.1232	0.00423	1.98484E-05	0.000592478	95.8505	0.00225	0.00121597	0.00623	0.01707	0.01169	4.69961	0.0887	0.000313763	0.01591	0.01617	5.6236E-05	0.000736969	16.0577	8.22804	0.27916	0.001343031	0.001639011	0.00021554	0.00605	0.051188117	0.04853	6.53202E-06
Lake A	July	0.065171209	0.00966	0.11455	0.00427	1.81415E-05	0.00051897	83.0496	0.002	0.001059646	0.006	0.01717	0.01019	4.05189	0.0791	0.000272502	0.01384	0.01425	6.98365E-05	0.000750064	13.9851	7.20706	0.24364	0.001185979	0.001434089	0.00022527	0.00553	0.044423335	0.04378	5.66781E-06
Lake A	August	0.064388745	0.01009	0.11798	0.00433	1.87021E-05	0.000540498	86.6647	0.00209	0.001106899	0.00606	0.01736	0.01065	4.22372	0.08225	0.000284818	0.01447	0.01487	6.60113E-05	0.000765293	14.6103	7.5149	0.2544	0.001239751	0.001497892	0.0002266	0.00576	0.04643706	0.04547	5.92505E-06
Lake A	September	0.065424836	0.00946	0.1139	0.00426	1.81929E-05	0.000508606	81.1339	0.00198	0.001038499	0.00604	0.01733	0.01002	3.99817	0.07792	0.000266404	0.01355	0.01402	7.34914E-05	0.000789805	13.6985	7.06545	0.23914	0.001169713	0.001407789	0.00022971	0.00568	0.043433135	0.04345	5.53972E-06
Lake A	October	0.066765818	0.00962	0.11552	0.00416	1.80947E-05	0.000515452	82.5166	0.00202	0.001054913	0.00615	0.0174	0.01016	4.11338	0.07922	0.000271037	0.01379	0.01428	6.83622E-05	0.000815415	13.9213	7.17258	0.24258	0.001193796	0.001431654	0.000232	0.00564	0.044175785	0.04424	5.63588E-06
Junction 26	May	0.088221538	0.00834	0.11014	0.00399	1.7143E-05	0.000450567	72.5773	0.00183	0.000914246	0.00656	0.01877	0.00889	3.70068	0.07135	0.000232985	0.01192	0.01283	0.000152871	0.000349671	12.0536	6.25368	0.2114	0.001071645	0.001253641	0.00025374	0.00568	0.037946569	0.04211	4.83684E-06
Junction 26	June	0.077399243	0.00875	0.11166	0.00422	1.66707E-05	0.000468654	75.0901	0.00189	0.000955841	0.00595	0.019	0.00919	3.7121	0.07373	0.000245382	0.01251	0.01321	0.00013604	0.000334338	12.6194	6.53116	0.21973	0.001106151	0.001305754	0.00024591	0.00518	0.039938871	0.04206	5.09646E-06
Junction 26	July	0.0790694	0.00766	0.10502	0.00425	1.53694E-05	0.000412503	65.2991	0.0017	0.000836323	0.00583	0.01921	0.00805	3.21579	0.06638	0.000213829	0.01093	0.01174	0.000174088	0.000344884	11.0347	5.75043	0.19257	0.000985737	0.001149073	0.00025319	0.00479	0.034766503	0.03843	4.43572E-06
Junction 26	August	0.078116952	0.00805	0.10794	0.00431	1.58777E-05	0.000432018	68.5735	0.00178	0.000878926	0.00587	0.01919	0.00847	3.37135	0.06916	0.000224942	0.01149	0.01229	0.000170148	0.000360279	11.5977	6.02792	0.20229	0.001032955	0.001206167	0.00025356	0.00499	0.036587424	0.03989	4.66791E-06
Junction 26	September	0.079018135	0.00754	0.10468	0.00425	1.54604E-05	0.000406242	64.1128	0.00169	0.000823718	0.00577	0.01892	0.00795	3.18857	0.06568	0.000210078	0.01076	0.0116	0.000184839	0.000360031	10.8623	5.66514	0.18996	0.000976577	0.0011335	0.00025617	0.00492	0.034161909	0.03825	4.35713E-06
Junction 26	October	0.078138537	0.00795	0.10734	0.00416	1.57767E-05	0.000426701	67.7118	0.00176	0.000868338	0.00586	0.01857	0.00837	3.40051	0.06852	0.000222053	0.01135	0.01217	0.00015988	0.000421652	11.4566	5.95619	0.19992	0.001024348	0.001192797	0.00025419	0.005	0.036116127	0.03964	4.60749E-06
Junction 27	May	0.091256961	0.00855	0.11191	0.00401	1.77396E-05	0.000462291	74.7455	0.00188	0.000938139	0.00739	0.01868	0.00916	3.80981	0.07294	0.000238742	0.01223	0.01319	0.000133584	0.000530598	12.3644	6.40679	0.21722	0.001099992	0.001286273	0.00025503	0.00601	0.038903445	0.04345	4.95709E-06
Junction 27	June	0.078910209	0.0085	0.11046	0.00422	1.63409E-05	0.00045594	72.9339	0.00185	0.000928868	0.0063	0.01904	0.00894	3.60954	0.07218	0.000238261	0.01216	0.0129	0.000146881	0.000412639	12.2624	6.35483	0.21356	0.001081515	0.001271174	0.00024906	0.00509	0.038772529	0.04144	4.94748E-06
Junction 27	July	0.080512912	0.00745	0.10403	0.00425	1.5081E-05	0.000401588	63.4555	0.00167	0.000813158	0.00619	0.01923	0.00783	3.12903	0.06506	0.000207731	0.01063	0.01148	0.000184619	0.000422937	10.7282	5.59916	0.18727	0.00096497	0.001119461	0.00025609	0.00471	0.033764401	0.03793	4.30775E-06
Junction 27	August	0.079546973	0.00784	0.1069	0.0043	1.55839E-05	0.000420878	66.6898	0.00175	0.000855229	0.00624	0.01926	0.00824	3.28263	0.0678	0.000218703	0.01119	0.01202	0.000186261	0.000439699	11.2846	5.87343	0.19686	0.001011399	0.001175824	0.00025638	0.00491	0.035561519	0.03936	4.5371E-06
Junction 27	September	0.080431968	0.00734	0.10372	0.00424	1.51756E-05	0.000395753	62.3413	0.00166	0.000801422	0.00613	0.019	0.00774	3.10448	0.06441	0.000204221	0.01047	0.01135	0.000206239	0.000437337	10.5675	5.51961	0.18484	0.000956442	0.001104972	0.00025893	0.00484	0.033197892	0.03776	4.23415E-06
Junction 27	October	0.079328423	0.00778	0.10648	0.00416	1.55343E-05	0.000417573	66.1648	0.00174	0.000848899	0.00622	0.01863	0.00818	3.3259	0.0674	0.000216938	0.0111	0.01195	0.000176519	0.000504035	11.1989	5.82906	0.19546	0.001006582	0.001167849	0.00025652	0.00493	0.035275884	0.03921	4.50006E-06
Junction 28	May	0.122137333	0.00204	0.07878	0.00416	7.83195E-06	0.000113471	15.7294	0.00087	0.000208823	0.0046	0.01983	0.00207	0.91076	0.0308	4.85287E-05	0.00274	0.00476	0.003597293	3.68215E-05	2.74126	1.65584	0.04942	0.000428405	0.000349768	0.00033488	0.0029	0.007577888	0.02386	9.64673E-07
Junction 28	June	0.119609162	0.00199	0.07819	0.0042	7.46055E-06	0.000109735	14.9375	0.00086	0.000201759	0.00448	0.02003	0.00197	0.84951	0.03033	4.71146E-05	0.00266	0.00464	0.003276095	3.3844E-05	2.65247	1.61177	0.04746	0.000419357	0.000339893	0.00033392	0.00268	0.007333433	0.02329	9.35079E-07
Junction 28	July	0.119002078	0.00192	0.07761	0.00421	7.40477E-06	0.000106488	14.3135	0.00084	0.000194588	0.00448	0.02006	0.0019	0.81376	0.02982	4.5203E-05	0.00257	0.00453	0.003146005	3.52903E-05	2.55668	1.56478	0.04585	0.000410513	0.000329982	0.00033341	0.00266	0.007022567	0.02299	8.95251E-07
Junction 28	August	0.119010172	0.00197	0.07805	0.00422	7.4656E-06	0.000108821	14.7074	0.00085	0.000199818	0.00451	0.0201	0.00195	0.83252	0.03019	4.6561E-05	0.00263	0.00461	0.0032699	3.56467E-05	2.62588	1.59882	0.04704	0.000416972	0.00033719	0.00033388	0.00269	0.007244172	0.0232	9.2354E-07
Junction 28	September	0.119366329	0.00184	0.07728	0.00421	7.34772E-06	0.000102419	13.6105	0.00083	0.000186132	0.0045	0.02029	0.00183	0.78598	0.02935	4.29002E-05	0.00245	0.00444	0.005112839	3.57006E-05	2.44384	1.50907	0.04397	0.000403336	0.000319279	0.00033474	0.00266	0.006645529	0.02282	8.46865E-07
Junction 28	October	0.11791742	0.00211	0.07872	0.00419	7.66919E-06	0.000116348	15.9707	0.00087	0.000215716	0.00473	0.02048	0.00211	0.90699	0.0311	5.07152E-05	0.00284	0.00479	0.005951608	4.10546E-05	2.8356	1.70193	0.05069	0.000431611	0.000357573	0.00033186	0.00275	0.007928505	0.02362	1.01079E-06

Notes: [a] Regulation criteria applies to total concentrations.

CCME criteria for:

Aluminium depends on pH conditions. Values are provided for reference given [b] pH<6.5 and [c] pH>=6.5

Cadmium depends on hardness concentrations. Values are provided for reference given a hardness of [d] 0--17, [e] >=280 and [f] 40 mg/L.

Copper depends on hardness concentrations. Values are provided for reference given a hardness of [g] 0–82 and [h] >=180 mg/L.

Manganese depends on hardness concentrations and pH conditions. Values are provided for reference given a hardness of [i] 10-24 and [j] >=670 mg/L and pH of [i] 6.7–6.9 and [j] 6.5–6.7.

Nickel depends on hardness concentrations. Values are provided for reference given a hardness of [k] <=60 and [l] >=180 mg/L.

Lead depends on hardness concentrations. Values are provided for reference given a hardness of [m] <=60 and [n] >=180 mg/L.

Zinc depends on hardness and DOC concentrations, and pH conditions. Values are provided for reference given a pH of [o,p,q] 6.5-6.7, [o,p,q] DOC 8 mg/L and hardness [o] 8, [p] 399, and [q] 38 mg/L.

Table G: General Chemistry. Historical Conditions. Mineral Percipitation was allowed. Effluent pH of 8.

Regulation		Hardness mg/L	pH n/a	Alk mg/L	DOC mg/L	F mg/L	Si mg/L	Sulphate mg/L	Cl mg/L	Nitrate as N mg/L	Nitrite as N mg/L	Total Ammonia as N mg/L
MDMER												0.5[a]
CCME (long-term)			6.5-9							2.935483871	0.059956522	0.019[a]
CCME (long-term)												
CCME (long-term)												
Station	**Time**	**Effluent**										
Effluent (pH 8)	January	913.6777868	8	126.1224965	4.4656479	1.001538819	34.73362499	795.693798	40.05141	6.575847907	0.04533778	0.1355315
	January	807.1717636	7.68336	18.3421238	4.4656479	0.186039963	24.85857306	795.588132	40.05141	6.575847907	0.04533778	0.1355315
	January	867.8819672	6.97703	79.9854055	4.4656479	0.18607416	34.73362499	795.578526	40.05141	6.569263653	0.045292384	0.135395795
		Y21										
Junction 2	November	98.76946482	7.05666	12.930918	8.6033178	0.024538338	5.108829723	88.3425396	4.4351495	0.76137784	0.005249389	0.015692376
	December	159.2322796	7.09834	18.2248066	8.3398581	0.036980392	7.44699687	143.926698	7.2342815	1.218086867	0.00839821	0.025105377
	January	195.1711062	7.11384	21.360339	8.1526473	0.044479061	8.831967645	176.980944	8.8990135	1.48958225	0.01027006	0.030701032
	February	221.5435255	7.12256	23.657634	8.0090073	0.049996198	9.847412595	201.226488	10.1199115	1.688650845	0.011642556	0.034803935
	March	331.0683275	7.14456	33.2003672	7.4085921	0.072972867	14.06481384	301.935792	15.1920975	0.839072029	0.005785058	0.017293692
	April	4.568146354	7.57181	5.01215715	9.1988253	0.005910783	1.491922965	1.67009916	0.069996025	0.327447527	0.002257617	0.006748857
	May	79.91556558	7.57113	5.6117061	7.593768	0.020805151	3.515722776	76.598244	3.8452615	0.660666782	0.004555027	0.013616671
	June	202.2528006	7.51918	7.61375615	6.8080572	0.048404132	7.067857365	197.624238	9.9405345	1.654188583	0.011404953	0.03409365
	July	173.8859503	7.43206	7.3404331	7.3499391	0.042123259	6.297561255	169.459446	8.5211165	1.424440169	0.009820932	0.029358421
	August	100.9657806	7.395	6.14038425	7.8055173	0.025674442	4.178045243	97.318386	4.8882005	0.832109531	0.005737055	0.017150192
	September	105.0159004	7.53392	6.18703085	7.743393	0.026557868	4.290345042	101.333694	5.09062	0.864960753	0.00596355	0.017827272
	October	116.8159901	7.67537	6.5321256	7.9543044	0.029314536	4.675252755	112.91853	5.673418	0.961202924	0.006627101	0.019810871
Junction 3	November	242.2725716	7.15125	26.4627363	7.5845511	0.060133746	10.65015488	219.967794	10.8849225	1.84793374	0.012740747	0.038086835
	December	242.0644044	7.18054	28.0142863	7.4482128	0.068781819	10.69221473	219.237738	10.5928145	1.850595459	0.012759098	0.038141694
	January	342.3820674	7.22383	39.39340405	6.4794807	0.104873085	14.61459617	310.590798	14.751454	2.615209389	0.018030798	0.053900768
	February	487.8877276	7.21589	52.1546025	5.6694708	0.135925975	20.21937161	444.363954	21.474901	3.714219334	0.025608022	0.07655191
	March	420.1723002	7.21264	45.64745185	6.1414479	0.118225163	17.5984421	382.299588	18.4513705	2.513643779	0.017330545	0.05180745
	April	377.8480263	7.83333	11.8166048	6.7991994	0.095170601	12.3055104	371.050962	18.4747675	1.026022797	0.007074007	0.021146841
	May	200.399372	7.72554	7.5544469	6.3482895	0.048516222	6.921248745	195.81831	9.822486	1.638638538	0.011297742	0.033773156
	June	259.4468465	7.61909	8.4520436	5.7354255	0.063137393	8.620466685	254.405304	12.735058	2.119989484	0.01461646	0.043694039
	July	234.2004011	7.53662	8.2593511	6.4168776	0.057283985	7.971543285	229.285614	11.47871	1.915457359	0.013206295	0.03947853
	August	220.6939952	7.54242	8.17651835	6.6198888	0.054874988	7.59841233	215.885244	10.7863715	1.806466953	0.01245485	0.037232183
	September	213.8727436	7.65498	8.0458378	6.5899638	0.053094837	7.387512225	209.12262	10.451369	1.750570845	0.01206947	0.036080137
	October	253.7994974	7.84164	9.0452362	6.7583817	0.063089897	8.620466685	248.468796	12.4085635	2.076001068	0.014313178	0.042787416
Junction 4	November	241.8722619	7.15076	26.4148885	7.5723417	0.059791774	10.63333094	219.621978	10.8671975	1.844851749	0.012719498	0.038023313
	December	242.0033574	7.18	28.0025746	7.446537	0.068519641	10.68981131	219.189708	10.5906875	1.850175188	0.012756201	0.038133032
	January	342.371059	7.22341	39.38709775	6.4792413	0.104624206	14.61459617	310.590798	14.751454	2.615209389	0.018030798	0.053900768
	February	487.8777202	7.21557	52.149097	5.6694708	0.135680896	20.21937161	444.363954	21.474901	3.714219334	0.025608022	0.07655191
	March	420.1622927	7.21228	45.6418963	6.1414479	0.117980084	17.5984421	382.299588	18.4513705	3.201207936	0.022071019	0.06597849
	April	377.8380188	7.82956	11.81104925	6.7991994	0.094923622	12.3055104	371.050962	18.4747675	3.08955581	0.021301223	0.063677284
	May	196.3702686	7.72007	7.39733995	6.220809	0.047296525	6.78245124	191.889456	9.625384	1.605717271	0.011070763	0.033094633
	June	254.2408365	7.61506	8.27721895	5.6205135	0.06162702	8.447420445	249.304518	12.4801725	2.077542063	0.014323802	0.042819177
	July	230.510559	7.53274	8.12386575	6.3159705	0.056136482	7.846565445	225.683364	11.2982695	1.885337902	0.012998633	0.038857753
	August	217.563584	7.53844	8.0553473	6.5262834	0.053854773	7.490859285	212.830536	10.633582	1.780970482	0.012279063	0.036706689
	September	210.6562661	7.64443	7.91946155	6.4909719	0.052051825	7.27635405	205.981458	10.2943255	1.724233831	0.011887887	0.035537318
	October	251.1784786	7.83676	8.9465376	6.688836	0.062195072	8.531540145	245.903994	12.280589	2.054567222	0.0141654	0.042345654
Junction 5	November	241.7221458	7.15023	26.39321685	7.5677931	0.059508698	10.62672153	219.487494	10.8608165	1.843731025	0.012711771	0.038000215
	December	241.9793389	7.17947	27.99451655	7.4459385	0.068266962	10.6886096	219.170496	10.589624	1.850035097	0.012755235	0.038130145
	January	342.3600507	7.22299	39.3811418	6.4792413	0.104377227	14.61459617	310.581192	14.7510995	2.615209389	0.018030798	0.053900768
	February	487.8777202	7.21525	52.1435915	5.6694708	0.135433917	20.21937161	444.363954	21.474901	3.714219334	0.025608022	0.07655191
	March	420.1632936	7.21192	45.63634075	6.1414479	0.117733104	17.5984421	382.299588	18.4513705	3.201207936	0.022071019	0.06597849
	April	377.8380188	7.82581	11.8054937	6.7991994	0.094676642	12.3055104	371.050962	18.4747675	3.08955581	0.021301223	0.063677284
	May	194.8761175	7.71502	7.3355282	6.1735275	0.046690476	6.73077771	190.429344	9.552357	1.593529398	0.010986733	0.032843434
	June	252.3013429	7.61061	8.20885065	5.5779003	0.06091458	8.383729815	247.412136	12.3851665	2.061711837	0.014214659	0.042492908
	July	229.1174862	7.52857	8.0697617	6.2781453	0.055555131	7.799698755	224.328918	11.2309145	1.874130662	0.012921364	0.038626766
	August	216.3886793	7.53424	8.0065986	6.4912113	0.053319018	7.450602	211.687422	10.5765075	1.771444329	0.012213384	0.03651035
	September	209.4443327	7.64614	7.86881095	6.4539846	0.05151037	7.234895055	204.809526	10.235833	1.714427496	0.011820276	0.035335204
	October	250.1857142	7.83185	8.90594705	6.662502	0.061704914	8.497892265	244.943394	12.2327315	2.046582064	0.014110346	0.042181075
Junction 6	November	241.5720297	7.14971	26.37159525	7.5631248	0.059227522	10.62011213	219.35301	10.854081	1.842610301	0.012704044	0.037977116
	December	241.9543195	7.17893	27.9864585	7.4452203	0.068016183	10.68800874	219.151284	10.5885605	1.849895007	0.012754269	0.038127257
	January	342.3490423	7.22257	39.37518585	6.4791216	0.104130248	14.61399531	310.581192	14.7510995	2.615209389	0.018030798	0.053900768
	February	487.8677127	7.21493	52.1375855	5.6694708	0.135186937	20.21937161	444.363954	21.474901	3.714219334	0.025608022	0.07655191
	March	420.1532861	7.21156	45.6307852	6.1414479	0.117486125	17.5984421	382.299588	18.4513705	3.201207936	0.022071019	0.06597849
	April	377.8280113	7.82206	11.7999882	6.7991994	0.094431563	12.3055104	371.050962	18.4747675	3.08955581	0.021301223	0.063677284
	May	193.3839683	7.70996	7.2741669	6.1264854	0.046090126	6.679705035	188.978838	9.4796845	1.581341525	0.010902703	0.032592236
	June	250.3838659	7.60615	8.1410329	5.5355265	0.06020594	8.320039185	245.538966	12.291224	2.046021702	0.014106482	0.042169526
	July	227.7464302	7.5244	8.01595795	6.2405595	0.054977579	7.752832065	222.993684	11.1635595	1.862923423	0.012844095	0.038395779
	August	215.2237821	7.53005	7.9580501	6.4563786	0.052787063	7.410344715	210.553914	10.5197875	1.761918175	0.012147705	0.036314011
	September	208.2444087	7.64194	7.8184106	6.4172367	0.050970816	7.19343606	203.637594	10.1773405	1.704621162	0.011752665	0.035133091
	October	249.2019563	7.82694	8.86550665	6.6364074	0.061216655	8.46484524	243.982794	12.1845195	2.038596905	0.014055291	0.042016497
OutletSP04	November	2.759237231	6.49017	3.052154105	9.0881028	0.044332774	1.491922965	2.51946168	0.47995755	0.050969125	0.000351411	0.001050499
	December	2.759237231	6.49017	3.052154105	9.0881028	0.044332774	1.491922965	2.51946168	0.47995755	0.050969125	0.000351411	0.001050499
	January	2.759237231	6.49017	3.052154105	9.0881028	0.044332774	1.491922965	2.51946168	0.47995755	0.050969125	0.000351411	0.001050499
	February	2.759237231	6.49017	3.052154105	9.0881028	0.044332774	1.491922965	2.51946168	0.47995755	0.050969125	0.000351411	0.001050499
	March	2.759237231	6.49017	3.052154105	9.0881028	0.044332774	1.491922965	2.51946168	0.47995755	0.050969125	0.000351411	0.001050499
	April	2.759237231	7.04409	2.183416235	9.0881028	0.044332774	1.491922965	2.51955774	0.47995755	0.064734418	0.000446317	0.001334209
	May	772.5150588	7.80095	17.48311565	4.6638711	0.179561508	23.75960927	761.56368	38.353355	6.290063294	0.043367412	0.129641337
	June	789.968508	7.76607	17.91414625	4.5640413	0.182700044	24.31299672	778.691178	39.2077	6.430574062	0.044336176	0.132537334
	July	781.401907	7.72134	17.70203435	4.6129986	0.181159273	24.04141026	770.285928	38.78939	6.361649537	0.04386097	0.131116765
	August	748.1262658	7.66955	16.8790622	4.8034413	0.175174776	22.98570803	737.615922	37.15869	6.093656418	0.042013267	0.125593293
	September	782.3726547	7.79064	17.726709	4.6074924	0.181334059	24.07205387	771.236922	38.83902	6.369494605	0.043915059	0.131278456
	October	781.1617209	7.86592	17.69722955	4.614435	0.181117477	24.03359915	770.045778	38.778755	6.359688271	0.043847448	0.131076342
Lake A	November	238.1817533	7.32752	12.9777648	6.7288158	0.062500947	8.782697535	228.757284	11.4776465	1.914476725	0.013199534	0.039458319
	December	244.1364319	7.28885	15.0066917	6.7766958	0.06389163	9.196085775	232.878258	11.6470975	1.949779531	0.013442932	0.040185927
	January	256.0717103	7.27439	17.0130961	6.7361175	0.067127058	9.760889475	243.060618	12.11681	2.034814462	0.014029213	0.041938539
	February	278.3800259	7.26077	20.09992985	6.6388014	0.072841778	10.74208569	262.647252	13.0487905	2.197459528	0.015150584	0.045290735
	March	293.5287911	7.25123	22.3219997	6.5844576	0.076582563	11.42585868	275.817078	13.6755465	2.306870206	0.015904926	0.047545744
	April	317.9394171	7.6103	19.7509312	6.6190509	0.081486051	11.74551354	302.92521	15.042853	2.529614096	0.017440654	0.052136606
	May	236.4262668	7.59888	10.0615515	6.346494	0.064290596	8.328451155	229.746702	11.5648535	1.921060979	0.013244929	0.039594023
	June	251.4097387	7.50608	8.7806719	6.0756129	0.068046581	8.57179743	245.971236	12.4078545	2.053166317	0.014155741	0.04231678
	July	244.3012333	7.47813	8.13948135	6.1828641	0.066057448	8.30862294	239.448762	12.0845505	1.999371566	0.013784849	0.041208044
	August	218.3182038	7.46865	7.49683935	6.3638505	0.060207839	7.525708875	213.97365	10.796652	1.790496636	0.012344742	0.036903027
	September	217.8728546	7.57774	7.3950877	6.3897057	0.059989358	7.500472965	213.627834	10.779636	1.787694826	0.012325424	0.036845281
	October	233.0815642	7.73309	7.80324545	6.4659546	0.062903713	7.964333025	228.603588	11.5152235	1.911394735	0.013178284	0.039394797
Junction 26	May	184.4242079	7.3407	9.56170215	7.061103	0.050155784	6.881592315	178.018392	8.946162	1.497147136	0.010322217	0.030856948
	June	198.1577039	7.30962	7.9547468	6.7491648	0.053949765	7.045024875	193.282326	9.7469775	1.621127226	0.011177009	0.033412239
	July	192.3952417	7.26437	7.4497423	6.8355882	0.0523463	6.83292306	187.979814	9.484293	1.577418991	0.010875658	0.032511391
	August	174.737629	7.26707	6.97822125	6.9416424	0.048483925	6.296359545	170.708226	8.6104505	1.435787499	0.009899167	0.029592295
	September	173.3425492	7.34691	6.8846778	6.9758766	0.048035563	6.247089435	169.392204	8.544868	1.425000531	0.009824795	0.029369971
	October	190.2535717	7.47979	7.2671599	6.9779115	0.051593963	6.751807635	186.087432	9.3712075	1.562709489	0.010774242	0.032208221
Junction 27	May	186.593904	7.35319	10.1178077	7.0939008	0.050201381	7.01438127	179.68023	9.021316	1.511156186	0.010418803	0.031145682
	June	192.6104296	7.28891	7.86400615	6.8191893	0.052274106	6.886399155	187.806906	9.4704675	1.576158176	0.010866966	0.032485405
	July	186.9980836	7.25981	7.37301565	6.9034581	0.050706738	6.679705035	182.629272	9.214164	1.533570665	0.010573342	0.031607655
	August	170.1941288	7.2471	6.9193124	7.0017318	0.047051445	6.16837743	166.203012	8.3828615	1.398859644	0.009644565	0.028831194
	September	168.7029751	7.32288	6.82676995	7.0369236	0.046580285	6.116103045	164.79093	8.312316	1.387302178	0.009564881	0.028592989
	October	185.7831278	7.45419	7.20634915	7.0314174	0.050199481	6.62502723	181.64946	9.1471635	1.52628596	0.010523117	0.031457514
Junction 28	May	45.76619959	7.139	6.18052435	8.724933	0.015335131	2.745426666	41.9522838	2.0951659	0.380639888	0.002624356	0.007845178
	June	42.32101872	7.12639	5.57051495	8.7208632	0.014487422	2.575444787	39.0589566	1.95822255	0.356530314	0.002458131	0.007348267
	July	44.29293375	7.13251	5.50815265	8.6987187	0.014768409	2.622251391	41.0983104	2.0623392	0.373229101	0.002573262	0.007692438
	August	40.94044891	7.11996	5.41766225	8.7160752	0.014259062	2.51932493	37.8197826	1.8965041	0.346331725	0.002387816	0.007138069
	September	40.1337261	7.09212	5.40164625	8.7301998	0.014435937	2.494149105	37.0234452	1.8563747	0.339803508	0.002342806	0.00700352
	October	47.2016697	7.06032	5.5312257	8.6889033	0.016287521	2.69958143	44.0137314	2.20566355	0.397296648	0.002739198	0.008188482

Notes: [a] Regulatory criteria is for un-ionized ammonia

Table H: Dissolved Metals. Historical Conditions. Mineral Percipitation was allowed. Effluent pH of 8.

Regulation[a]		Al	As	B	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Li	Mg	Mn	Hg	Mo	Ni	P	Pb	K	Na	Sr	Se	Sb	Tl	Ti	U	Zn	Sn
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MDMER			0.1								0.1							0.25		0.08									0.4	
Directive 019 (2025)			0.1								0.1	3						0.25		0.08									0.4	
CVAC (hardness 10mg/L)			0.15		0.038	0.000138	0.00005			0.1	0.0013	0.65	0.44		0.26	0.00091	3.2	0.007		0.00017			21	0.005	0.24	0.0072		0.014	0.017	
CVAA (hardness 10mg/L)			0.34		0.11	0.00124	0.0002			0.37	0.0016	3.4	0.91		0.6	0.0016	29	0.07		0.004			40	0.062	1.1	0.047		0.32	0.017	
CVAC (hardness 40mg/L)					0.165	0.001425046	0.00014				0.0043				0.86			0.024		0.00099									0.055	
CVAA (hardness 40mg/L)					0.47	0.012825099	0.0008				0.0059				1.9			0.22		0.025									0.055	
CVAC (hardness 400mg/L)					1.911	0.068822	0.0076				0.0305				6.52			0.169		0.01858									0.388	
CVAA (hardness 400mg/L)					5.45	0.61939	0.0087				0.0517				14.1			1.52		0.477									0.398	
CCME (long-term)		0.005[b]	0.005	1.5			0.00004[d]				0.002[g]	0.3			0.23[i]	0.000026	0.073	0.025[k]		0.001[m]				0.001		0.0008		0.015	0.07[o]	
CCME (long-term)		0.1[c]					0.00037[e]				0.004[h]				1.2[j]			0.15[l]		0.007[n]									0.312[p]	
CCME (long-term)							0.00007[f]																						0.037[q]	
Station	**Time**															**Effluent**														
Effluent (pH 8)	n/a	0.398706202	0.034727	0.275817	0.055676	3.98717E-05	0.001822568	289.5395	0.006491	0.00378107	0.05632	1.260813	0.035536	46.3083	0.251572	0.001001526	0.050201	0.050199	3.987252382	0.002515822	50.1944	25.04276	0.852446	0.003987164	0.005019921	0.00010015	0.010013	0.16351396	0.14144963	2.0925E-05
	n/a	5.90977E-11	0.034726	0.275817	0.007342	3.98708E-05	0.001789631	266.4586	0.006671	0.00377995	0.006137	0.01844	0.035535	34.4402	0.250693	0.001001526	0.0502	0.048392	1.05438E-05	4.69122E-05	50.1944	25.04046	0.852429	0.003987085	0.005019921	0.00010015	0.010012	0.163511579	0.12742562	2.0925E-05
	n/a	0.154183306	0.034727	0.275817	0.007641	3.98717E-05	0.001813912	276.0693	0.006671	0.003773507	0.017668	0.021924	0.035536	43.3553	0.251364	0.001001526	0.050201	0.049794	6.94091E-05	9.9342E-05	50.1944	25.04276	0.852437	0.003987164	0.005019921	0.00010015	0.010012	0.163511579	0.13768374	2.0925E-05
																Year 21 Historical Conditions														
Junction 2	November	0.09305663	0.004209	0.092494	0.004537	9.11672E-06	0.000224131	31.444	0.000946	0.000441158	0.008173	0.020819	0.004192	4.91836	0.045643	0.000111769	0.005886	0.007845	0.002555459	0.000190927	5.852625	3.184773	0.100929	0.000669715	0.000657248	0.00032291	0.002964	0.01788454	0.03204012	2.2879E-06
	December	0.098439447	0.006611	0.107374	0.004809	1.15698E-05	0.000349248	50.67462	0.00141	0.000703247	0.008977	0.020555	0.006657	7.9402	0.061948	0.000181704	0.009371	0.011159	0.001099259	0.000193073	9.339802	4.905787	0.160047	0.000932202	0.001000892	0.00030778	0.003532	0.029327542	0.04047087	3.75242E-06
	January	0.101356151	0.008037	0.115991	0.004957	1.30109E-05	0.000423565	62.10487	0.001686	0.000858983	0.009438	0.020469	0.008122	9.73658	0.071573	0.000223297	0.011442	0.013122	0.000783636	0.00019517	11.4124	5.927452	0.195174	0.001087358	0.001204864	0.0002976	0.003863	0.036135169	0.04542145	4.6234E-06
	February	0.10343373	0.009083	0.122261	0.005063	1.40635E-05	0.000478063	70.49319	0.001889	0.000973235	0.009772	0.020423	0.009197	11.0544	0.078622	0.000253786	0.012961	0.014559	0.000639577	0.000196886	12.93254	6.676689	0.220934	0.001201061	0.001354458	0.0002899	0.004104	0.041126635	0.04904023	5.2623E-06
	March	0.112033	0.013429	0.148281	0.004899	1.84371E-05	0.000704431	105.329	0.00273	0.001447753	0.011163	0.020325	0.01366	16.5279	0.107893	0.000380499	0.019272	0.02053	0.000350034	0.000204434	19.24692	9.788814	0.327944	0.001673162	0.001975556	0.00025775	0.005105	0.061866094	0.0640639	7.91641E-06
	April	0.129058097	0.000473	0.070702	0.004197	5.39875E-06	2.94727E-05	1.485211	0.000987	3.3007E-05	0.003817	0.01847	0.000354	0.20874	0.020616	2.73344E-06	0.000458	0.00272	0.009152747	0.000145977	0.421362	0.510557	0.0089	0.000265629	0.000123672	0.0003536	0.00212	3.46165E-05	0.01904912	3.53566E-09
	May	0.100611461	0.003655	0.081221	0.003966	7.98218E-06	0.000192374	26.3609	0.00144	0.000383485	0.003722	0.017449	0.003639	3.42214	0.039798	9.69171E-05	0.005108	0.006701	0.00053566	0.000164622	5.078869	2.767968	0.087613	0.000584422	0.000571505	0.00028514	0.002601	0.015501871	0.02692283	1.98305E-06
	June	0.080035339	0.008874	0.112002	0.004417	1.32001E-05	0.000460538	66.74991	0.002329	0.000954497	0.004096	0.017049	0.009	8.6397	0.074732	0.000249173	0.012688	0.013645	0.000128352	0.000168588	12.66472	6.504495	0.216159	0.001149973	0.001317078	0.00024403	0.003789	0.04042445	0.04331817	5.17279E-06
	July	0.089867412	0.007675	0.107576	0.004475	1.21935E-05	0.000399126	57.38368	0.002153	0.00082257	0.004146	0.017927	0.007763	7.43052	0.067387	0.000213749	0.010938	0.012131	0.00017787	0.000168443	10.91116	5.652495	0.186517	0.001028375	0.00114799	0.00026742	0.003594	0.034611784	0.04023485	4.42871E-06
	August	0.101952443	0.004564	0.089133	0.004201	9.07617E-06	0.000239251	33.30963	0.001622	0.000482164	0.003919	0.018138	0.004567	4.32046	0.046536	0.000123006	0.006419	0.007988	0.000449894	0.00016605	6.389444	3.424786	0.109884	0.000690932	0.000703408	0.00029143	0.002883	0.019756876	0.03043635	2.52757E-06
	September	0.100762557	0.004736	0.089879	0.0042	9.22847E-06	0.000248041	34.64663	0.001649	0.000501015	0.003917	0.018046	0.004744	4.49327	0.047616	0.000128057	0.006669	0.008209	0.000353937	0.000166104	6.640064	3.547091	0.114125	0.00070869	0.000727711	0.00028867	0.002914	0.020585454	0.03090709	2.6337E-06
	October	0.102810456	0.005248	0.095009	0.004373	9.89357E-06	0.000274515	38.54181	0.001758	0.000556475	0.00405	0.018357	0.005266	4.99686	0.051586	0.000142654	0.007406	0.008955	0.000276995	0.000164241	7.376285	3.919066	0.126655	0.000770847	0.00080263	0.00029574	0.003093	0.022961935	0.0330594	2.93772E-06
Junction 3	November	0.103935586	0.0098	0.125007	0.004206	2.49394E-05	0.000539284	77.09805	0.002196	0.001089981	0.010558	0.020242	0.011206	12.0832	0.083319	0.000270034	0.013999	0.015877	0.000498461	0.000348096	14.28417	7.351898	0.258409	0.001304735	0.001501301	0.00027749	0.01049	0.044266236	0.05581818	5.6113E-06
	December	0.10515785	0.009652	0.124174	0.004574	3.9376E-05	0.000565487	77.04996	0.002146	0.001127739	0.010926	0.020059	0.012858	12.0618	0.082698	0.000258741	0.013772	0.016212	0.000433726	0.000353649	14.4996	7.480871	0.282811	0.001332213	0.001544891	0.00028027	0.019357	0.043085613	0.06193644	5.38469E-06
	January	0.113495146	0.013383	0.145265	0.004463	6.83367E-05	0.000818621	108.9881	0.002834	0.001629146	0.012741	0.019848	0.019821	17.0565	0.108146	0.000355626	0.019173	0.022233	0.000233991	0.000374182	20.6744	10.55759	0.423406	0.001808974	0.00218961	0.00024859	0.03562	0.060114201	0.08600085	7.43315E-06
	February	0.124940714	0.019148	0.179759	0.003972	7.49174E-05	0.001120779	155.2702	0.003949	0.002261611	0.014615	0.019936	0.025839	24.3269	0.146992	0.000523359	0.027544	0.030182	0.000159574	0.000384915	29.07506	14.69897	0.566893	0.002437574	0.003017213	0.00020581	0.037424	0.08760416	0.10628173	1.09473E-05
	March	0.119557897	0.016519	0.164334	0.004304	6.6463E-05	0.000970268	133.7243	0.003448	0.001952857	0.013629	0.019936	0.022417	20.9478	0.12922	0.000449442	0.02373	0.026364	0.000192706	0.000378119	25.08078	12.723	0.490909	0.002135552	0.002615648	0.00022637	0.033268	0.075236178	0.09462447	9.39447E-06
	April	0.061938821	0.016316	0.16495	0.003587	3.25953E-05	0.000869657	124.8229	0.003844	0.001807989	0.005728	0.01824	0.018024	16.0673	0.127154	0.000459371	0.023457	0.024233	4.14739E-05	0.000317493	23.77841	12.03698	0.420804	0.002018533	0.002437879	0.00023426	0.012647	0.075298065	0.07388594	9.57717E-06
	May	0.072469716	0.008764	0.107989	0.003551	1.44258E-05	0.000458334	66.14072	0.002441	0.000949231	0.004327	0.016022	0.009089	8.55901	0.073172	0.000245743	0.012539	0.013453	9.85306E-05	0.000305019	12.56424	6.442423	0.216614	0.001132128	0.001305632	0.00022738	0.004628	0.039957913	0.04281017	5.10477E-06
	June	0.059289234	0.011264	0.121169	0.004025	1.89833E-05	0.000591646	85.66272	0.002841	0.001231152	0.004478	0.015405	0.011928	11.0605	0.089554	0.000317875	0.016172	0.016809	7.08463E-05	0.000305434	16.26724	8.262753	0.282417	0.001404462	0.001671034	0.00019973	0.006477	0.05187364	0.05118731	6.61856E-06
	July	0.071290622	0.010207	0.118726	0.00427	1.76675E-05	0.000536417	77.32249	0.002709	0.001112557	0.004595	0.016618	0.010769	9.98692	0.083445	0.000286703	0.014626	0.0155	8.92633E-05	0.000310054	14.70135	7.507539	0.25522	0.001300392	0.001520904	0.00022791	0.006022	0.046722695	0.04861853	5.96209E-06
	August	0.074981697	0.009627	0.116229	0.004108	1.81496E-05	0.000508954	72.86982	0.002618	0.001052476	0.004629	0.016935	0.010294	9.40701	0.079825	0.000269132	0.013778	0.014792	9.97603E-05	0.000311173	13.88342	7.110506	0.242795	0.001243383	0.0014431	0.00023745	0.006525	0.04388777	0.04746	5.59409E-06
	September	0.075154379	0.009334	0.113937	0.003892	1.74872E-05	0.000493126	70.60942	0.002563	0.001019424	0.004571	0.016783	0.009954	9.12118	0.07771	0.000260867	0.013356	0.014374	9.57244E-05	0.000310841	13.45099	6.894402	0.234988	0.001208957	0.001399388	0.00023674	0.006241	0.042521484	0.04625439	5.42089E-06
	October	0.074512218	0.011039	0.127223	0.003856	2.07785E-05	0.000584081	83.79508	0.002887	0.00121006	0.00489	0.017424	0.011866	10.8216	0.089983	0.00030941	0.01582	0.01679	6.45276E-05	0.000313494	15.95602	8.144815	0.279446	0.001407857	0.001651674	0.00024042	0.007551	0.050512115	0.05301926	6.43657E-06
Junction 4	November	0.103768301	0.009785	0.124812	0.0042	2.48998E-05	0.000538508	76.9698	0.002373	0.001088273	0.010935	0.02021	0.011188	12.0638	0.083187	0.000269613	0.013977	0.015853	0.000501094	0.000492141	14.2615	7.340173	0.257997	0.001302603	0.001498866	0.00027704	0.010473	0.044197208	0.05576326	5.60228E-06
	December	0.105133567	0.00965	0.124142	0.004573	3.9367E-05	0.000565442	77.02992	0.002326	0.001127515	0.011317	0.020054	0.012855	12.0592	0.082682	0.000258681	0.013769	0.016209	0.00043515	0.000498171	14.49648	7.479262	0.282741	0.001331897	0.001544526	0.00028021	0.019353	0.043076092	0.06195736	5.3835E-06
	January	0.113492447	0.013383	0.145265	0.004463	6.83358E-05	0.000818689	108.9841	0.003015	0.001629146	0.013134	0.019848	0.01982	17.0563	0.108146	0.000355626	0.019172	0.022233	0.000234496	0.000518767	20.67401	10.55736	0.423397	0.001808974	0.00218961	0.00024857	0.035619	0.060111821	0.08603354	7.43303E-06
	February	0.124940714	0.019148	0.179759	0.003972	7.49174E-05	0.001120858	155.2662	0.004129	0.002261639	0.015009	0.019936	0.025839	24.3269	0.146998	0.000523359	0.027544	0.030183	0.000159828	0.00052952	29.07506	14.69897	0.566893	0.002437574	0.003017213	0.00020581	0.037424	0.08760416	0.10631442	1.09473E-05
	March	0.119557897	0.016519	0.164334	0.004304	6.6463E-05	0.000970346	133.7202	0.003628	0.001952857	0.014023	0.019936	0.022417	20.9478	0.12922	0.000449442	0.02373	0.026365	0.000193063	0.000522724	25.08078	12.723	0.490909	0.002135552	0.002615648	0.00022637	0.033268	0.075236178	0.09465716	9.39447E-06
	April	0.061938821	0.016316	0.16495	0.003587	3.25953E-05	0.000869736	124.8189	0.004024	0.001808017	0.006122	0.01824	0.018024	16.0673	0.12716	0.000459371	0.023457	0.024234	4.18858E-05	0.000462097	23.77841	12.03698	0.420804	0.002018533	0.002437879	0.00023426	0.012647	0.075298065	0.07392517	9.57717E-06
	May	0.071015411	0.008588	0.105821	0.00348	1.41356E-05	0.000449218	64.81013	0.002572	0.000930184	0.004634	0.015701	0.008906	8.38741	0.071705	0.000240808	0.012286	0.013183	0.00010279	0.000443491	12.31205	6.312991	0.212268	0.001109388	0.001279454	0.00022282	0.004535	0.039155756	0.04198573	5.00232E-06
	June	0.058102046	0.011038	0.118748	0.003944	1.86029E-05	0.000579876	83.94337	0.002964	0.001206531	0.004781	0.015097	0.011689	10.8388	0.087764	0.000311516	0.015848	0.016473	7.35472E-05	0.000443905	15.94155	8.097456	0.276757	0.001376352	0.00163755	0.00019572	0.006347	0.050835834	0.0501968	6.48608E-06
	July	0.07016819	0.010047	0.116856	0.004203	1.7389E-05	0.000528065	76.10411	0.002846	0.001095079	0.004916	0.016356	0.0106	9.82967	0.082132	0.00028219	0.014395	0.015257	9.22151E-05	0.000449769	14.46989	7.389601	0.251198	0.001279942	0.001496917	0.00022431	0.005927	0.045987185	0.04788889	5.86831E-06
	August	0.073921322	0.00949	0.114586	0.004049	1.78928E-05	0.000501839	71.83581	0.002761	0.00103763	0.004957	0.016695	0.010148	9.27382	0.078699	0.00026534	0.013584	0.014584	0.000102898	0.000451364	13.68714	7.00981	0.23936	0.001225775	0.001422766	0.0002341	0.006433	0.043266515	0.04682385	5.51503E-06
	September	0.07402655	0.009194	0.112229	0.003833	1.7225E-05	0.000485808	69.54735	0.002705	0.00100413	0.004896	0.016531	0.009805	8.9841	0.076545	0.000256936	0.013156	0.014159	9.95528E-05	0.000450784	13.24885	6.790718	0.231457	0.001190796	0.001378445	0.00023318	0.006147	0.041883567	0.04559405	5.33946E-06
	October	0.073743244	0.010925	0.125904	0.003816	2.05649E-05	0.000578145	82.9294	0.003037	0.001197624	0.005233	0.017244	0.011744	10.71	0.08906	0.000306241	0.015657	0.016618	6.62312E-05	0.000454866	15.7918	8.060903	0.276564	0.001393328	0.001634628	0.00023794	0.007473	0.049993212	0.05250799	6.37033E-06
Junction 5	November	0.103706243	0.009779	0.124737	0.004197	2.48844E-05	0.000538261	76.92171	0.002552	0.001087628	0.011322	0.020197	0.011181	12.0565	0.083138	0.000269453	0.013968	0.015844	0.000503107	0.000636436	14.25289	7.335575	0.257839	0.001301814	0.001497892	0.00027688	0.010467	0.044168645	0.05576391	5.59884E-06
	December	0.105122774	0.009649	0.124131	0.004573	3.93634E-05	0.000565476	77.0219	0.002506	0.001127431	0.01171	0.020053	0.012853	12.0582	0.082676	0.000258661	0.013767	0.016209	0.000436513	0.000642734	14.4953	7.478572	0.282723	0.001331818	0.001544404	0.00028017	0.019351	0.043071331	0.06198612	5.38302E-06
	January	0.113492447	0.013382	0.145265	0.004463	6.83349E-05	0.000818767	108.9801	0.003195	0.001629146	0.013528	0.019848	0.01982	17.056	0.108146	0.000355606	0.019172	0.022234	0.000234998	0.000663372	20.67362	10.55736	0.423397	0.001808974	0.00218961	0.00024857	0.035619	0.060111821	0.08606623	7.43291E-06
	February	0.124940714	0.019148	0.179759	0.003972	7.49174E-05	0.001120936	155.2662	0.00431	0.002261667	0.015402	0.019936	0.025839	24.3269	0.146998	0.000523359	0.027544	0.030184	0.000160085	0.000674125	29.07506	14.69897	0.566893	0.002437574	0.003017213	0.00020581	0.037424	0.08760416	0.10634711	1.09473E-05
	March	0.119557897	0.016519	0.164334	0.004304	6.6463E-05	0.000970436	133.7202	0.003809	0.001952885	0.014416	0.019936	0.022417	20.948	0.129225	0.000449442	0.02373	0.026366	0.000193416	0.000667329	25.08078	12.723	0.490909	0.002135552	0.002615648	0.00022637	0.033268	0.075236178	0.09468985	9.39447E-06
	April	0.061938821	0.016316	0.16495	0.003587	3.25953E-05	0.000869826	124.8189	0.004205	0.001808046	0.006515	0.01824	0.018024	16.0673	0.12716	0.000459371	0.023457	0.024235	4.2304E-05	0.000606702	23.77841	12.03698	0.420804	0.002018533	0.002437879	0.00023426	0.012647	0.075298065	0.07395786	9.57717E-06
	May	0.07047578	0.008523	0.105016	0.003454	1.40284E-05	0.000445879	64.31717	0.002733	0.000923154	0.004992	0.015582	0.008839	8.32349	0.071161	0.000238983	0.012193	0.013084	0.000105376	0.000584718	12.21822	6.264942	0.210647	0.001100939	0.001269713	0.00022112	0.004501	0.03885822	0.04170067	4.96421E-06
	June	0.057659549	0.010954	0.117851	0.003914	1.84615E-05	0.00057556	83.30212	0.003122	0.001197399	0.005139	0.014983	0.0116	10.7567	0.087099	0.000309149	0.015728	0.016348	7.52384E-05	0.000585154	15.82035	8.035844	0.274654	0.001365929	0.001625131	0.00019424	0.006299	0.050450227	0.04985029	6.43681E-06
	July	0.069747278	0.009986	0.116164	0.004178	1.72854E-05	0.000524996	75.64322	0.00301	0.001088553	0.00528	0.016259	0.010536	9.77085	0.081643	0.000280505	0.014309	0.015167	9.41386E-05	0.00059168	14.38348	7.345231	0.249699	0.001272282	0.001488029	0.00022298	0.005892	0.045713452	0.04763718	5.83317E-06
	August	0.073524694	0.009439	0.11397	0.004028	1.77973E-05	0.000499231	71.44705	0.002927	0.001032084	0.005324	0.016606	0.010094	9.22423	0.078276	0.000263916	0.013511	0.014507	0.000104989	0.000593545	13.61364	6.972107	0.238081	0.001219221	0.001415095	0.00023283	0.006398	0.043035627	0.04660679	5.48547E-06
	September	0.07360294	0.009142	0.111592	0.003812	1.71268E-05	0.000483122	69.14657	0.00287	0.000998444	0.005261	0.016436	0.009749	8.93282	0.076111	0.000255471	0.01308	0.014079	0.000100999	0.000592799	13.17339	6.752095	0.230134	0.001184005	0.001370531	0.00023185	0.006112	0.041643158	0.04536914	5.30907E-06
	October	0.073454542	0.010882	0.125418	0.003801	2.04838E-05	0.000575964	82.60076	0.003206	0.001192946	0.005606	0.017177	0.011698	10.6682	0.088714	0.000305037	0.015596	0.016554	6.74516E-05	0.000597689	15.72964	8.029177	0.275486	0.00138788	0.001628296	0.000237	0.007444	0.049795648	0.05233669	6.34529E-06

Notes: [a] Regulation criteria applies to total concentrations.

CCME criteria for:

Aluminium depends on pH conditions. Values are provided for reference given [b] pH<6.5 and [c] pH>=6.5

Cadmium depends on hardness concentrations. Values are provided for reference given a hardness of [d] 0--17, [e] >=280 and [f] 40 mg/L.

Copper depends on hardness concentrations. Values are provided for reference given a hardness of [g] 0--82 and [h] >=180 mg/L.

Manganese depends on hardness concentrations and pH conditions. Values are provided for reference given a hardness of [i] 10-24 and [j] >=670 mg/L and pH of [i] 6.7-6.9 and [j] 6.5-6.7.

Nickel depends on hardness concentrations. Values are provided for reference given a hardness of [k] <=60 and [l] >=180 mg/L.

Lead depends on hardness concentrations. Values are provided for reference given a hardness of [m] <=60 and [n] >=180 mg/L.

Zinc depends on hardness and DOC concentrations, and pH conditions. Values are provided for reference given a pH of [o,p,q] 6.5-6.7, [o,p,q] DOC 8 mg/L and hardness [o] 8, [p] 399, and [q] 38 mg/L.

Table H: Dissolved Metals. Historical Conditions. Mineral Percipitation was allowed. Effluent pH of 8.

Station	Time / Regulation[a]	Al mg/L	As mg/L	B mg/L	Ba mg/L	Be mg/L	Cd mg/L	Ca mg/L	Cr mg/L	Co mg/L	Cu mg/L	Fe mg/L	Li mg/L	Mg mg/L	Mn mg/L	Hg mg/L	Mo mg/L	Ni mg/L	P mg/L	Pb mg/L	K mg/L	Na mg/L	Sr mg/L	Se mg/L	Sb mg/L	Tl mg/L	Ti mg/L	U mg/L	Zn mg/L	Sn mg/L
	MDMER		0.1								0.1							0.25		0.08									0.4	
	Directive 019 (2025)		0.1								0.1	3						0.25		0.08									0.4	
	CVAC (hardness 10mg/L)		0.15		0.038	0.000138	0.00005			0.1	0.0013	0.65	0.44		0.26	0.00091	3.2	0.007		0.00017			21	0.005	0.24	0.0072		0.014	0.017	
	CVAA (hardness 10mg/L)		0.34		0.11	0.00124	0.0002			0.37	0.0016	3.4	0.91		0.6	0.0016	29	0.07		0.004			40	0.062	1.1	0.047		0.32	0.017	
	CVAC (hardness 40mg/L)				0.165	0.001425046	0.00014				0.0043				0.86			0.024		0.00099									0.055	
	CVAA (hardness 40mg/L)				0.47	0.012825099	0.0008				0.0059				1.9			0.22		0.025									0.055	
	CVAC (hardness 400mg/L)				1.911	0.068822	0.0076				0.0305				6.52			0.169		0.01858									0.388	
	CVAA (hardness 400mg/L)				5.45	0.61939	0.0087				0.0517				14.1			1.52		0.477									0.388	
	CCME (long-term)	0.005[b]	0.005	1.5			0.00004[d]				0.002[g]	0.3			0.23[i]	0.000026	0.073	0.025[k]		0.001[m]				0.001		0.0008		0.015	0.02[o]	
	CCME (long-term)	0.1[c]					0.00037[e]				0.004[h]				1.2[j]			0.15[l]		0.007[n]									0.312[p]	
	CCME (long-term)						0.00007[f]																						0.037[q]	
Station	**Time**	**Effluent**																												
Junction 6	November	0.103641488	0.009773	0.124661	0.004194	2.48691E-05	0.000538013	76.87361	0.002731	0.001086984	0.011708	0.020185	0.011175	12.0492	0.083088	0.000269272	0.01396	0.015835	0.00050512	0.000780667	14.2439	7.331207	0.257682	0.001301024	0.001497039	0.00027671	0.01046	0.044142461	0.05576456	5.5954E-06
	December	0.10511468	0.009648	0.12412	0.004572	3.93607E-05	0.00056551	77.01388	0.002686	0.001127374	0.012102	0.020051	0.012852	12.057	0.082671	0.000258621	0.013766	0.016208	0.000437876	0.000787277	14.49413	7.477882	0.282697	0.00133166	0.001544282	0.00028015	0.019349	0.043068951	0.06201555	5.38255E-06
	January	0.113492447	0.013382	0.145265	0.004463	6.8334E-05	0.000818835	108.9761	0.003375	0.001629146	0.013921	0.019848	0.01982	17.0558	0.108146	0.000355606	0.019172	0.022235	0.000235503	0.000807956	20.67362	10.55713	0.423389	0.001808974	0.002189488	0.00024857	0.035618	0.060111821	0.08609892	7.43291E-06
	February	0.124940714	0.019148	0.179759	0.003972	7.49174E-05	0.001121026	155.2622	0.00449	0.002261695	0.015796	0.019936	0.025839	24.3269	0.146998	0.000523359	0.027544	0.030185	0.000160342	0.000818709	29.07506	14.69897	0.566893	0.002437574	0.003017213	0.00020581	0.037424	0.08760416	0.10638634	1.09473E-05
	March	0.119557897	0.016519	0.164334	0.004304	6.6463E-05	0.000970515	133.7162	0.003989	0.001952913	0.01481	0.019936	0.022417	20.948	0.129225	0.000449442	0.02373	0.026367	0.000193772	0.000811934	25.08078	12.723	0.490909	0.002135552	0.002615648	0.00022637	0.033268	0.075236178	0.09472908	9.39447E-06
	April	0.061938821	0.016316	0.16495	0.003587	3.25953E-05	0.000869904	124.8149	0.004385	0.001808074	0.006909	0.01824	0.018024	16.0673	0.12716	0.000459371	0.023457	0.024236	4.27221E-05	0.000751307	23.77841	12.03698	0.420804	0.002018533	0.002437879	0.00023426	0.012647	0.075298065	0.07399055	9.57717E-06
	May	0.069938847	0.008458	0.104217	0.003427	1.3922E-05	0.000442574	63.82422	0.002893	0.000916151	0.005348	0.015463	0.008771	8.26005	0.070623	0.000237158	0.0121	0.012985	0.00010804	0.000724868	12.12516	6.217353	0.209044	0.00109257	0.001259972	0.00021945	0.004467	0.038560683	0.04141823	4.92647E-06
	June	0.057222448	0.010871	0.116953	0.003884	1.83218E-05	0.000571277	82.66889	0.003279	0.001188324	0.005493	0.014869	0.011512	10.675	0.08644	0.000306802	0.015608	0.016225	7.69729E-05	0.000725304	15.70031	7.974921	0.272577	0.001355585	0.001612833	0.00019276	0.006251	0.050067001	0.04950639	6.3879E-06
	July	0.069331763	0.009927	0.115462	0.004153	1.71817E-05	0.000521938	75.19034	0.003172	0.001082082	0.005642	0.016162	0.010473	9.71252	0.08116	0.00027882	0.014224	0.015077	9.61085E-05	0.000732742	14.29747	7.301321	0.24821	0.001264702	0.00147914	0.00022163	0.005857	0.045439719	0.04738677	5.79827E-06
	August	0.073130763	0.009389	0.113364	0.004006	1.77017E-05	0.000496634	71.0623	0.003092	0.001026567	0.005689	0.016517	0.01004	9.17465	0.077858	0.000262492	0.013438	0.01443	0.000107123	0.00073498	13.54052	6.934864	0.236802	0.001212668	0.001407546	0.00023159	0.006364	0.042804739	0.04639103	5.45591E-06
	September	0.073184726	0.009089	0.110954	0.00379	1.70285E-05	0.000480457	68.7498	0.003034	0.000992758	0.005625	0.016343	0.009693	8.88202	0.075677	0.000254027	0.013006	0.014	0.000103059	0.000734027	13.09832	6.713472	0.228828	0.001177215	0.001362738	0.00023052	0.006077	0.041407509	0.04514489	5.2788E-06
	October	0.073168537	0.01084	0.12492	0.003786	2.04036E-05	0.000573795	82.27613	0.003374	0.001188296	0.005978	0.01711	0.011653	10.6261	0.088368	0.000303834	0.015534	0.01649	6.86967E-05	0.000739953	15.66825	7.997911	0.2744	0.001382432	0.001621843	0.00023606	0.007415	0.049600464	0.05216605	6.32048E-06
OutletSP04	November	0.239339742	0.000225	0.070702	0.005665	1.30091E-05	7.94981E-05	0.571753	0.000109	4.82136E-05	0.006274	0.029477	0.000354	0.32335	0.017624	2.18001E-06	0.000169	0.00077	0.01729451	0.000184771	0.516684	0.831701	0.017001	8.91222E-06	6.74733E-05	0.00035356	0.00212	0.000137981	0.00874523	3.53578E-09
	December	0.239339742	0.000225	0.070702	0.005665	1.30091E-05	7.94981E-05	0.571753	0.000109	4.82136E-05	0.006274	0.029477	0.000354	0.32335	0.017624	2.18001E-06	0.000169	0.00077	0.01729451	0.000184771	0.516684	0.831701	0.017001	8.91222E-06	6.74733E-05	0.00035356	0.00212	0.000137981	0.00874523	3.53578E-09
	January	0.239339742	0.000225	0.070702	0.005665	1.30091E-05	7.94981E-05	0.571753	0.000109	4.82136E-05	0.006274	0.029477	0.000354	0.32335	0.017624	2.18001E-06	0.000169	0.00077	0.01729451	0.000184771	0.516684	0.831701	0.017001	8.91222E-06	6.74733E-05	0.00035356	0.00212	0.000137981	0.00874523	3.53578E-09
	February	0.239339742	0.000225	0.070702	0.005665	1.30091E-05	7.94981E-05	0.571753	0.000109	4.82136E-05	0.006274	0.029477	0.000354	0.32335	0.017624	2.18001E-06	0.000169	0.00077	0.01729451	0.000184771	0.516684	0.831701	0.017001	8.91222E-06	6.74733E-05	0.00035356	0.00212	0.000137981	0.00874523	3.53578E-09
	March	0.239339742	0.000225	0.070702	0.005665	1.30091E-05	7.94981E-05	0.571753	0.000109	4.82136E-05	0.006274	0.029477	0.000354	0.32335	0.017624	2.18001E-06	0.000169	0.00077	0.01729451	0.000184771	0.516684	0.831701	0.017001	8.91222E-06	6.74733E-05	0.00035356	0.00212	0.000137981	0.00874523	3.53578E-09
	April	0.091057298	0.000225	0.070702	0.005665	1.30091E-05	7.9344E-05	0.571753	0.000495	4.81884E-05	0.003346	0.020737	0.000354	0.32335	0.017619	2.18001E-06	0.000169	0.000769	0.018670674	0.000127355	0.516684	0.831701	0.017001	8.91222E-06	6.74733E-05	0.00035356	0.00212	0.000137981	0.00866677	3.53578E-09
	May	1.52899E-08	0.033246	0.267018	0.00362	3.8719E-05	0.001716337	255.0444	0.006579	0.003619732	0.006384	0.018299	0.034026	32.9454	0.240695	0.00095864	0.048054	0.046348	1.75751E-05	0.000187742	48.06354	24.00362	0.816592	0.003816453	0.00480745	0.00011102	0.009674	0.156501628	0.12235867	2.00276E-05
	June	1.24185E-09	0.033991	0.27145	0.004738	3.92985E-05	0.001753321	260.7916	0.006716	0.003700401	0.006456	0.018333	0.034786	33.6989	0.245727	0.000980243	0.049134	0.047377	1.42699E-05	0.000189379	49.13483	24.52549	0.834633	0.003902361	0.004914355	0.00010555	0.009844	0.160031597	0.1249281	2.04787E-05
	July	2.2086E-09	0.033626	0.269266	0.005331	3.90146E-05	0.001735223	257.9701	0.006649	0.003660907	0.006423	0.018385	0.034413	33.3294	0.24326	0.000969632	0.048604	0.046873	1.42786E-05	0.000188939	48.61092	24.268	0.825775	0.003860196	0.004861877	0.00010824	0.009761	0.158298746	0.12367281	2.02579E-05
	August	8.75524E-08	0.032204	0.260824	0.005151	3.7907E-05	0.001664739	247.0127	0.006387	0.003507132	0.00629	0.018456	0.032964	31.893	0.233657	0.000928471	0.046542	0.04491	1.77827E-05	0.000186476	46.56217	23.27254	0.791358	0.003696354	0.004657929	0.00011868	0.009436	0.151567289	0.11887585	1.93948E-05
	September	4.00136E-09	0.033668	0.269515	0.004067	3.90462E-05	0.001737246	258.2907	0.006656	0.003665389	0.006425	0.018309	0.034455	33.3708	0.243535	0.000970836	0.048664	0.046929	1.58499E-05	0.000188612	48.66956	24.29789	0.826782	0.003865013	0.004867843	0.00010793	0.00977	0.15849631	0.12381011	2.02828E-05
	October	8.27389E-09	0.033615	0.269212	0.002982	3.90065E-05	0.00173466	257.8939	0.006647	0.003659787	0.006418	0.018257	0.033402	33.173	0.243189	0.000969331	0.048589	0.046858	1.78211E-05	0.000188303	48.59528	24.2611	0.825529	0.003859012	0.004860416	0.00010831	0.009758	0.158251141	0.12363358	2.02507E-05
Lake A	November	0.077024199	0.010146	0.121072	0.004169	2.0464E-05	0.000548311	77.77136	0.003284	0.001116563	0.007817	0.018323	0.010929	10.6816	0.083583	0.000284717	0.014536	0.015433	0.000281276	0.000928173	14.71347	7.566623	0.258619	0.001273151	0.001518104	0.0002414	0.007034	0.046482286	0.04939001	5.92149E-06
	December	0.080469742	0.010317	0.122737	0.004221	2.24349E-05	0.000561294	79.45864	0.003437	0.001141211	0.008707	0.018527	0.01133	11.1045	0.084989	0.000288609	0.01478	0.015812	0.000307102	0.001051271	15.00788	7.713527	0.26619	0.001302682	0.001551588	0.00024383	0.008231	0.047198753	0.05140764	6.00352E-06
	January	0.083049177	0.010742	0.125591	0.004271	2.51115E-05	0.000588633	83.14181	0.003648	0.001195635	0.009479	0.018634	0.012048	11.7695	0.088011	0.000299802	0.015394	0.016522	0.000301808	0.001172545	15.68819	8.051707	0.280936	0.001358665	0.001623061	0.00024256	0.009736	0.049131547	0.0542399	6.23928E-06
	February	0.086697081	0.011569	0.130866	0.004282	2.87732E-05	0.000638219	90.10737	0.003917	0.001295995	0.010398	0.018758	0.01325	12.9631	0.093763	0.000322408	0.01659	0.017811	0.000282961	0.001281739	16.96905	8.685995	0.306679	0.001460365	0.00175444	0.0002386	0.011695	0.052959052	0.05876812	6.71436E-06
	March	0.089459991	0.012125	0.134509	0.00432	3.12245E-05	0.000671584	94.81653	0.004132	0.001363471	0.011143	0.018866	0.014058	13.7863	0.097669	0.000337613	0.017396	0.018687	0.000272727	0.00138849	17.83039	9.112915	0.323984	0.001529534	0.001843081	0.00023633	0.013011	0.055534525	0.06188152	7.03404E-06
	April	0.082115616	0.013316	0.142973	0.004168	3.16237E-05	0.000728398	103.4133	0.004394	0.001489936	0.010466	0.018506	0.015186	14.5013	0.105997	0.000372255	0.019118	0.020262	8.99323E-05	0.001361677	19.52256	9.944684	0.35154	0.001667004	0.00201184	0.00023473	0.0129	0.061159148	0.06535712	7.75782E-06
	May	0.066827876	0.010162	0.118467	0.004025	1.98493E-05	0.000549502	77.59902	0.00319	0.001118579	0.006428	0.017412	0.010856	10.3598	0.082847	0.000286483	0.014575	0.015182	0.000107135	0.000807272	14.74866	7.586394	0.25826	0.001249937	0.001512868	0.00022637	0.006414	0.046758399	0.04729066	5.96043E-06
	June	0.058792773	0.010858	0.12131	0.004152	1.95339E-05	0.000583283	82.75706	0.003225	0.001192022	0.005875	0.017051	0.011447	10.8707	0.087104	0.000307605	0.015592	0.01597	9.64244E-05	0.000739393	15.74176	8.073087	0.273664	0.001313973	0.001606136	0.00021401	0.005889	0.050178875	0.04825698	6.40357E-06
	July	0.060212002	0.010584	0.120132	0.004318	1.87769E-05	0.00056759	80.50067	0.003201	0.001160034	0.005751	0.01718	0.011106	10.5126	0.085379	0.000299742	0.015194	0.015601	9.60496E-05	0.000743475	15.32614	7.867789	0.265927	0.001285785	0.001565468	0.00021842	0.005555	0.048867335	0.04727301	6.23809E-06
	August	0.064413028	0.009486	0.113775	0.004285	1.78892E-05	0.000511383	71.96806	0.003051	0.001040543	0.005693	0.017291	0.010005	9.37687	0.078067	0.000267547	0.013597	0.014153	0.000119828	0.000767593	13.73406	7.083608	0.239255	0.001168687	0.001409859	0.00022781	0.005449	0.043604516	0.04394778	5.56346E-06
	September	0.064704429	0.009473	0.113862	0.004177	1.77774E-05	0.000510326	71.83982	0.003062	0.001038695	0.005665	0.017324	0.00998	9.37466	0.078028	0.000267186	0.013578	0.014139	0.000110821	0.000765853	13.71138	7.072343	0.238729	0.001168134	0.001407789	0.00022877	0.005395	0.043537868	0.04391378	5.55563E-06
	October	0.065387062	0.010129	0.118996	0.004087	1.88913E-05	0.000543904	76.87762	0.003234	0.001111129	0.005889	0.017493	0.010713	9.98498	0.082797	0.00028568	0.014524	0.015108	9.14438E-05	0.000803895	14.66499	7.542024	0.255552	0.001250332	0.001505441	0.00023054	0.005917	0.046579877	0.04676762	5.94215E-06
Junction 26	May	0.083122027	0.007967	0.108154	0.004088	1.6951E-05	0.000432209	60.43762	0.002839	0.000873576	0.006355	0.019243	0.008526	8.1378	0.068914	0.000221853	0.011375	0.012417	0.000308542	0.000381248	11.50898	5.986306	0.20242	0.001032402	0.001200785	0.00025801	0.005715	0.036128028	0.04142804	4.60334E-06
	June	0.073945606	0.008618	0.110392	0.004162	1.64851E-05	0.000463775	65.22294	0.002884	0.000942032	0.00573	0.019379	0.009055	8.57116	0.072765	0.000241851	0.012328	0.013109	0.000230662	0.000345838	12.43756	6.441963	0.216562	0.001087832	0.001286394	0.00024412	0.005076	0.039365221	0.04196154	5.02333E-06
	July	0.075113906	0.008396	0.10943	0.004291	1.58813E-05	0.000451072	63.39137	0.002824	0.000916095	0.005684	0.019586	0.008779	8.28241	0.071365	0.000235453	0.012004	0.01281	0.000244284	0.000349733	12.10014	6.275287	0.210297	0.001065012	0.001253519	0.00024769	0.004812	0.038296471	0.04117698	4.88872E-06
	August	0.077585415	0.007649	0.104998	0.004267	1.53441E-05	0.000413133	57.59609	0.002737	0.000835202	0.005657	0.019565	0.008038	7.50854	0.06636	0.000213568	0.010919	0.01182	0.000291017	0.000380647	11.02103	5.743994	0.192317	0.000984631	0.00114771	0.00025344	0.004771	0.034726038	0.03889129	4.43049E-06
	September	0.078133141	0.007596	0.104857	0.004181	1.51936E-05	0.000409918	57.15123	0.002726	0.000828816	0.005523	0.019215	0.007971	7.43952	0.066047	0.000211984	0.01084	0.011752	0.000288459	0.000359285	10.93814	5.703072	0.190766	0.000979815	0.001139832	0.0002548	0.004712	0.034459445	0.03872784	4.39702E-06
	October	0.0773156	0.00832	0.109949	0.004108	1.63643E-05	0.000447453	62.74612	0.002926	0.000909149	0.005623	0.018779	0.008772	8.1536	0.071145	0.000232664	0.011889	0.012782	0.000234428	0.000406133	11.99653	6.22494	0.209342	0.001065881	0.001246579	0.0002536	0.005206	0.037860878	0.04155422	4.82972E-06
Junction 27	May	0.084387461	0.008041	0.108922	0.004105	1.73512E-05	0.00043665	61.07887	0.003073	0.000882483	0.007008	0.019195	0.008643	8.27585	0.069519	0.000223698	0.011478	0.012561	0.000294111	0.000552913	11.62119	6.041481	0.204794	0.001044167	0.001213265	0.0002593	0.005961	0.036446987	0.0421008	4.64204E-06
	June	0.075521328	0.008385	0.109267	0.004163	1.61688E-05	0.000451432	63.39538	0.002962	0.000916067	0.006048	0.01947	0.008806	8.33224	0.071277	0.000235031	0.011989	0.012812	0.000255472	0.000423558	12.09428	6.272529	0.21063	0.001064381	0.001253154	0.00024724	0.004992	0.038241725	0.04133781	4.87981E-06
	July	0.076662647	0.008169	0.108316	0.004289	1.55803E-05	0.000439033	61.61191	0.002941	0.000890746	0.006004	0.019606	0.008537	8.05079	0.069909	0.000228773	0.011672	0.01252	0.000257943	0.000426293	11.76468	6.109761	0.204514	0.001042035	0.001221009	0.00025074	0.004734	0.037199158	0.04057352	4.7484E-06
	August	0.078958776	0.007458	0.104084	0.004265	1.50792E-05	0.000402982	56.09718	0.002862	0.000813831	0.005988	0.019661	0.007834	7.3141	0.065146	0.000207952	0.010641	0.011578	0.000321508	0.00046015	10.73874	5.604676	0.187428	0.000965523	0.001120411	0.00025611	0.0047	0.033800105	0.03839506	4.3125E-06
	September	0.079530784	0.0074	0.10392	0.004182	1.49251E-05	0.000399553	55.62025	0.002849	0.000806996	0.005844	0.019311	0.007762	7.24119	0.064799	0.000206247	0.010555	0.011504	0.000322344	0.000436778	10.64959	5.560535	0.185781	0.000960233	0.001111949	0.00025752	0.004641	0.033516851	0.03821919	4.27641E-06
	October	0.078559449	0.008131	0.109008	0.00411	1.61003E-05	0.000437459	61.27125	0.003051	0.000888085	0.005933	0.018851	0.008569	7.96232	0.069931	0.000227128	0.011614	0.012539	0.000260746	0.00048578	11.71815	6.087231	0.204523	0.001046615	0.001219548	0.00025601	0.005131	0.036949228	0.04104099	4.7135E-06
Junction 28	May	0.119029059	0.002186	0.079369	0.004177	8.11736E-06	0.000121475	14.96873	0.001362	0.000225217	0.00468	0.020176	0.002231	2.03722	0.031688	5.27271E-05	0.002952	0.004947	0.004733101	4.10525E-05	2.956144	1.762373	0.053255	0.000442018	0.000370345	0.00033237	0.002999	0.008273171	0.02428736	1.05298E-06
	June	0.118305954	0.002063	0.078447	0.00419	7.56212E-06	0.000114066	13.91348	0.001275	0.000210321	0.004476	0.020254	0.002051	1.84047	0.030791	4.93933E-05	0.002774	0.004745	0.004148626	3.51536E-05	2.766087	1.667954	0.049421	0.000426068	0.000350559	0.00033225	0.002697	0.007709042	0.02353484	9.83038E-07
	July	0.117642208	0.00215	0.078898	0.004217	7.61728E-06	0.000118541	14.57637	0.001311	0.000219834	0.004516	0.020218	0.002137	1.91737	0.031355	5.19849E-05	0.002902	0.004853	0.003350122	3.65625E-05	2.892961	1.730578	0.051522	0.000434793	0.000362772	0.0003312	0.00269	0.008132258	0.02374929	1.03738E-06
	August	0.118049629	0.002008	0.078036	0.004212	7.52562E-06	0.000111387	13.47703	0.001297	0.000204509	0.004494	0.020294	0.001997	1.76987	0.030399	4.78247E-05	0.002695	0.004664	0.004175573	3.73851E-05	2.688282	1.629814	0.048125	0.000419396	0.000342681	0.00033218	0.002687	0.007453637	0.02331385	9.50285E-07
	September	0.118324841	0.001974	0.077901	0.004193	7.46353E-06	0.000109538	13.21492	0.001288	0.000200694	0.004525	0.020483	0.001959	1.7329	0.030192	4.68438E-05	0.002646	0.004623	0.005930856	3.73064E-05	2.638197	1.605054	0.047236	0.000416174	0.000337872	0.00033278	0.002667	0.007291064	0.02322559	9.2963E-07
	October	0.117178126	0.002275	0.079713	0.004176	7.91657E-06	0.000125319	15.55066	0.001377	0.000234116	0.004761	0.020727	0.002287	2.03294	0.032218	5.55293E-05	0.003083	0.005029	0.007023301	4.22709E-05	3.079187	1.822629	0.054925	0.000449377	0.000381511	0.00033065	0.002829	0.008719713	0.02425598	1.11167E-06

Notes: [a] Regulation criteria applies to total concentrations.

CCME criteria for:

Aluminium depends on pH conditions. Values are provided for reference given [b] pH<6.5 and [c] pH>=6.5

Cadmium depends on hardness concentrations. Values are provided for reference given a hardness of [d] 0--17, [e] >=280 and [f] 40 mg/L.

Copper depends on hardness concentrations. Values are provided for reference given a hardness of [g] 0--82 and [h] >=180 mg/L.

Manganese depends on hardness concentrations and pH conditions. Values are provided for reference given a hardness of [i] 10-24 and [j] >=670 mg/L and pH of [i] 6.7-6.9 and [j] 6.5-6.7.

Nickel depends on hardness concentrations. Values are provided for reference given a hardness of [k] <=60 and [l] >=180 mg/L.

Lead depends on hardness concentrations. Values are provided for reference given a hardness of [m] <=60 and [n] >=180 mg/L.

Zinc depends on hardness and DOC concentrations, and pH conditions. Values are provided for reference given a pH of [o,p,q] 6.5-6.7, [o,p,q] DOC 8 mg/L and hardness [o] 8, [p] 399, and [q] 38 mg/L.

Table I: General Chemistry. Historical Conditions. No precipitation. Effluent pH of 8

Regulation		Hardness mg/L	pH n/a	Alk mg/L	DOC mg/L	F mg/L	Si mg/L	Sulphate mg/L	Cl mg/L	Nitrate as N mg/L	Nitrite as N mg/L	Total Ammonia as N mg/L
MDMER												0.5[a]
CCME (long-term)			6.5-9							2.935483871	0.059956522	0.019[a]
CCME (long-term)												
CCME (long-term)												
Station	**Time**	**Effluent**										
Effluent (pH 8)	n/a	913.677787	8.0000	126.122	4.46565	1.00154	34.7336	795.694	40.0514	6.575847907	0.04533778	0.1355315
	n/a	913.677787	8.39303	125.77	4.46565	1.00154	34.7336	795.694	40.0514	6.575847907	0.04533778	0.1355315
	n.a	913.677787	7.99731	126.067	4.46565	1.00154	34.7336	795.694	40.0514	6.569263653	0.045292384	0.135395795
Year 21 Historical Conditions												
Junction 2	November	103.795395	7.59611	18.331	8.60332	0.11457	5.10883	88.356	4.43515	0.76137784	0.005249389	0.015692376
	December	167.465718	7.8315	26.8331	8.33986	0.18431	7.447	143.946	7.23428	1.218100876	0.008398307	0.025105666
	January	205.322045	7.93564	31.8723	8.15277	0.22576	8.83197	177.01	8.89901	1.48958225	0.01027006	0.030701032
	February	233.085552	7.99781	35.5655	8.00901	0.25617	9.84741	201.255	10.1199	1.688650845	0.011642556	0.034803935
	March	348.406888	8.16074	50.9044	7.40859	0.38248	14.0648	301.984	15.1921	0.839072029	0.005785058	0.017293692
	April	4.56805629	7.02357	5.17252	9.19883	0.00591	1.49192	1.66991	0.07	0.327447527	0.002257617	0.006748857
	May	90.0327349	7.52611	15.9652	7.59377	0.09939	4.45029	76.6069	3.84526	0.660666782	0.004555027	0.013616671
	June	228.600079	7.8684	34.3624	6.80806	0.25114	9.50793	197.653	9.94053	1.654188583	0.011404953	0.03409365
	July	196.454176	7.83373	30.2714	7.35006	0.21597	8.38613	169.479	8.52112	1.424440169	0.009820932	0.029358421
	August	113.853187	7.64301	19.2996	7.80564	0.12551	5.36954	97.328	4.8882	0.83212354	0.005737151	0.017150481
	September	118.442743	7.63113	19.8912	7.74339	0.13054	5.53189	101.343	5.09062	0.864960753	0.00596355	0.017827272
	October	131.790082	7.62915	21.8055	7.95442	0.14518	6.06022	112.938	5.67342	0.961202924	0.006627101	0.019810871
Junction 3	November	254.655259	8.04123	39.2252	7.58455	0.27952	10.6502	220.006	10.8849	1.84793374	0.012740747	0.038086835
	December	254.071803	8.02747	40.4195	7.44821	0.27852	10.6922	219.276	10.5928	1.850595459	0.012759098	0.038141694
	January	359.058126	8.14592	56.5019	6.47948	0.39285	14.6146	310.648	14.7515	2.615209389	0.018030798	0.053900768
	February	512.256805	8.2348	76.9429	5.66947	0.5606	20.2194	444.441	21.4749	3.714219334	0.025608022	0.07655191
	March	441.098682	8.20536	66.9924	6.14145	0.48283	17.5984	382.367	18.4514	2.513643779	0.017330545	0.05180745
	April	427.710319	8.0454	62.3923	6.7992	0.46903	17.0006	371.099	18.4751	1.026022797	0.007074007	0.021146841
	May	226.427396	7.83169	33.9868	6.34829	0.24869	9.36973	195.847	9.82249	1.638638538	0.011297742	0.033773156
	June	293.475336	7.95776	42.9706	5.73543	0.32202	11.796	254.434	12.7351	2.119989484	0.01461646	0.043694039
	July	264.859167	7.93913	39.3784	6.41688	0.29075	10.8232	229.314	11.4791	1.915457359	0.013206295	0.03947853
	August	249.573325	7.91269	37.4984	6.61989	0.27399	10.2872	215.914	10.7864	1.806607043	0.012455816	0.037235071
	September	241.796301	7.8741	36.4012	6.59008	0.26548	9.99102	209.151	10.4514	1.750570845	0.01206947	0.036080137
	October	286.994314	7.89988	42.737	6.75838	0.31499	11.7095	248.498	12.4086	2.076001068	0.014313178	0.042787416
Junction 4	November	254.249945	8.04133	39.1624	7.57234	0.27909	10.6333	219.651	10.8672	1.844991839	0.012720464	0.038026201
	December	254.010756	8.02748	40.4106	7.44666	0.27846	10.6898	219.228	10.5907	1.850175188	0.012756201	0.038133032
	January	359.057126	8.14592	56.5004	6.47936	0.39285	14.6146	310.639	14.7515	2.615209389	0.018030798	0.053900768
	February	512.256805	8.2348	76.9429	5.66947	0.5606	20.2194	444.441	21.4749	3.714219334	0.025608022	0.07655191
	March	441.098682	8.20536	66.9924	6.14145	0.48283	17.5984	382.367	18.4514	3.201207936	0.022071019	0.06597849
	April	427.710319	8.0454	62.3923	6.7992	0.46903	17.0006	371.099	18.4751	3.08955581	0.021301223	0.063677284
	May	221.886879	7.82363	33.3046	6.22093	0.24369	9.18167	191.918	9.62538	1.605717271	0.011070763	0.033094633
	June	287.595782	7.94989	42.1101	5.62051	0.31558	11.5598	249.333	12.4802	2.077542063	0.014323802	0.042819177
	July	260.697944	7.93295	38.7591	6.31597	0.28619	10.6526	225.712	11.2983	1.885337902	0.012998633	0.038857753
	August	246.045593	7.9071	36.9682	6.52628	0.27012	10.1418	212.859	10.6339	1.780970482	0.012279063	0.036706689
	September	238.16749	7.86926	35.8544	6.49109	0.26149	9.8408	206.01	10.2947	1.724233831	0.011887887	0.035537318
	October	284.036022	7.8958	42.2968	6.68884	0.31174	11.5887	245.933	12.2809	2.054707312	0.014166366	0.042348541
Junction 5	November	254.097827	8.04136	39.1385	7.56779	0.27892	10.6267	219.516	10.8608	1.843731025	0.012711771	0.038000215
	December	253.995744	8.02749	40.407	7.44594	0.27844	10.6886	219.209	10.5896	1.850035097	0.012755235	0.038130145
	January	359.046117	8.14592	56.4999	6.47924	0.39285	14.6146	310.639	14.7511	2.615209389	0.018030798	0.053900768
	February	512.256805	8.2348	76.9429	5.66947	0.5606	20.2194	444.441	21.4749	3.714219334	0.025608022	0.07655191
	March	441.098682	8.20536	66.9924	6.14145	0.48283	17.5984	382.367	18.4514	3.201207936	0.022071019	0.06597849
	April	427.710319	8.0454	62.3923	6.7992	0.46903	17.0006	371.099	18.4751	3.08955581	0.021301223	0.063677284
	May	220.194568	7.82059	33.0512	6.17353	0.24183	9.11197	190.458	9.55236	1.593529398	0.010986733	0.032843434
	June	285.419095	7.94693	41.7905	5.5779	0.31319	11.4721	247.441	12.3852	2.061711837	0.014214659	0.042492908
	July	259.141738	7.93061	38.5274	6.27815	0.28448	10.5889	224.358	11.2309	1.874130662	0.012921364	0.038626766
	August	244.718565	7.90499	36.7697	6.49133	0.26868	10.0872	211.716	10.5765	1.771444329	0.012213384	0.03651035
	September	236.803433	7.86587	35.6501	6.4541	0.26001	9.78492	204.829	10.2358	1.714427496	0.011820276	0.035335204
	October	282.92316	7.89424	42.131	6.66262	0.31053	11.5436	244.972	12.2327	2.046582064	0.014110346	0.042181075
Junction 6	November	253.945709	8.0414	39.1146	7.56312	0.27874	10.6201	219.382	10.8541	1.842610301	0.012704044	0.037977116
	December	253.970725	8.02749	40.4033	7.44522	0.2784	10.688	219.19	10.5886	1.849895007	0.012754269	0.038127257
	January	359.045116	8.14592	56.4994	6.47912	0.39285	14.614	310.629	14.7511	2.615209389	0.018030798	0.053900768
	February	512.256805	8.2348	76.9429	5.66947	0.5606	20.2194	444.441	21.4749	3.714219334	0.025608022	0.07655191
	March	441.098682	8.20536	66.9924	6.14145	0.48283	17.5984	382.367	18.4514	3.201207936	0.022071019	0.06597849
	April	427.710319	8.0454	62.3923	6.7992	0.46903	17.0006	371.099	18.4751	3.08955581	0.021301223	0.063677284
	May	218.524274	7.81754	32.7997	6.12661	0.23999	9.04287	189.008	9.47968	1.581341525	0.010902703	0.032592236
	June	283.246412	7.94396	41.4733	5.53553	0.31081	11.385	245.568	12.2912	2.046021702	0.014106482	0.042169526
	July	257.587534	7.92827	38.2971	6.24068	0.28277	10.5258	223.023	11.1636	1.862923423	0.012844095	0.038395779
	August	243.404547	7.90288	36.5723	6.45638	0.26723	10.0331	210.583	10.5198	1.761918175	0.012147705	0.036314011
	September	235.461394	7.86361	35.4469	6.41724	0.25853	9.72904	203.666	10.1773	1.704621162	0.011752665	0.035133091
	October	281.811299	7.89269	41.9658	6.63653	0.30931	11.498	244.012	12.1845	2.038596905	0.014055291	0.042016497
OutletSP04	November	2.75923723	6.52632	3.31397	9.0881	0.04433	1.49192	2.51937	0.47996	0.049648072	0.000342303	0.001023271
	December	2.75923723	6.52632	3.31397	9.0881	0.04433	1.49192	2.51937	0.47996	0.049648072	0.000342303	0.001023271
	January	2.75923723	6.52632	3.31397	9.0881	0.04433	1.49192	2.51937	0.47996	0.049648072	0.000342303	0.001023271
	February	2.75923723	6.52632	3.31397	9.0881	0.04433	1.49192	2.51937	0.47996	0.049648072	0.000342303	0.001023271
	March	2.75923723	6.52632	3.31397	9.0881	0.04433	1.49192	2.51937	0.47996	0.049648072	0.000342303	0.001023271
	April	2.75923723	7.15521	3.2805	9.0881	0.04433	1.49192	2.51937	0.47996	0.064734418	0.000446317	0.001334209
	May	874.607526	8.30822	120.797	4.66399	0.96046	33.3078	761.669	38.3534	6.290203384	0.043368378	0.129644224
	June	894.272757	8.34271	123.402	4.56416	0.98115	34.0258	778.797	39.2112	6.430714152	0.044337142	0.132540221
	July	884.625285	8.35055	122.066	4.61312	0.97101	33.6731	770.392	38.7894	6.361789628	0.043861936	0.131119652
	August	847.086209	8.33068	117.034	4.80356	0.93157	32.3038	737.712	37.1587	6.093796508	0.042014233	0.125596181
	September	885.706121	8.32357	122.281	4.60761	0.97215	33.7134	771.343	38.839	6.369634696	0.043916024	0.131281343
	October	884.345068	8.29343	122.123	4.61455	0.9707	33.6635	770.151	38.7788	6.359828361	0.043848414	0.13107923
Lake A	November	263.979501	7.91545	39.3297	6.72894	0.29562	10.8556	228.786	11.4776	1.914476725	0.013199534	0.039458319
	December	268.801234	7.93805	40.2015	6.77682	0.30025	11.0521	232.907	11.6471	1.949779531	0.013442932	0.040185927
	January	280.536323	7.96601	41.9967	6.73612	0.31271	11.4962	243.099	12.1168	2.034814462	0.014029213	0.041938539
	February	303.04676	8.00985	45.2812	6.6388	0.33692	12.338	262.686	13.0488	2.197459528	0.015150584	0.045290735
	March	318.198496	8.03756	47.4992	6.58446	0.35314	12.9058	275.856	13.6755	2.306870206	0.015904926	0.047545744
	April	349.348624	7.97302	51.7162	6.61917	0.38624	14.0672	302.964	15.0429	2.529614096	0.017440654	0.052136606
	May	264.82116	7.88492	39.0784	6.34649	0.29888	10.8322	229.776	11.5649	1.921060979	0.013244929	0.039594023
	June	283.287468	7.93862	41.3198	6.07561	0.31984	11.4775	246.01	12.4079	2.053166317	0.014155741	0.04231678
	July	275.832693	7.94467	40.3287	6.18286	0.31146	11.212	239.478	12.0849	1.999371566	0.013784849	0.041208044
	August	246.69512	7.89774	36.4957	6.36385	0.27939	10.1514	214.002	10.7967	1.790496636	0.012344742	0.036903027
	September	246.312824	7.87131	36.4534	6.38971	0.27886	10.14	213.657	10.7796	1.787694826	0.012325424	0.036845281
	October	263.576194	7.86003	38.9208	6.46595	0.29683	10.7968	228.632	11.5152	1.911394735	0.013178284	0.039394797
Junction 26	May	205.851472	7.79988	31.4867	7.0611	0.23205	8.72682	178.038	8.94616	1.497147136	0.010322217	0.030856948
	June	223.176897	7.85617	33.5246	6.74916	0.25215	9.32407	193.311	9.74698	1.621127226	0.011177009	0.033412239
	July	217.125208	7.86228	32.7207	6.83559	0.24533	9.10836	188.009	9.48429	1.577418991	0.010875658	0.032511391
	August	197.353892	7.82126	30.1129	6.94164	0.22365	8.38673	170.727	8.61045	1.435787499	0.009899167	0.029592295
	September	195.859734	7.79337	29.9258	6.976	0.2219	8.33506	169.421	8.54487	1.425000531	0.009824795	0.029369971
	October	215.054602	7.78971	32.5987	6.97791	0.24232	9.05368	186.116	9.37121	1.562709489	0.010774242	0.032208221
Junction 27	May	207.801982	7.80423	31.8117	7.0939	0.23389	8.80613	179.709	9.02132	1.511156186	0.010418803	0.031145682
	June	216.924052	7.84645	32.7144	6.81919	0.2451	9.09995	187.836	9.47047	1.576158176	0.010866966	0.032485405
	July	211.023481	7.85254	31.9299	6.90346	0.23845	8.88965	182.658	9.21416	1.533570665	0.010573342	0.031607655
	August	192.213909	7.81231	29.4483	7.00173	0.21785	8.20287	166.222	8.38286	1.398859644	0.009644565	0.028831194
	September	190.616672	7.78425	29.2467	7.03692	0.21597	8.14759	164.82	8.31232	1.387302178	0.009564881	0.028592989
	October	209.990678	7.78155	31.9386	7.03142	0.23664	8.87162	181.678	9.14716	1.52628596	0.010523117	0.031457514
Junction 28	May	50.5601585	7.37908	11.2044	8.72493	0.05749	3.14752	41.958	2.09517	0.380639888	0.002624356	0.007845178
	June	47.2243749	7.39344	10.705	8.72086	0.05396	3.02014	39.0647	1.95822	0.356530314	0.002458131	0.007348267
	July	49.5513778	7.41513	11.0029	8.69872	0.05658	3.10372	41.1041	2.06234	0.373229101	0.002573262	0.007692438
	August	45.7963689	7.39131	10.5065	8.71608	0.05248	2.96642	37.8255	1.8965	0.346331725	0.002387816	0.007138069
	September	44.8905671	7.36264	10.3903	8.7302	0.05144	2.9344	37.0292	1.85637	0.339803508	0.002342806	0.00700352
	October	52.8979701	7.36385	11.4699	8.6889	0.06019	3.22809	44.0195	2.20566	0.397296648	0.002739198	0.008188482

Notes: [a] Regulatory criteria is for un-ionized ammonia

Table J: Dissolved Metals. Historical Conditions. No precipitation. Effluent pH of 8

Regulation[a]		Al mg/L	As mg/L	B mg/L	Ba mg/L	Be mg/L	Cd mg/L	Ca mg/L	Cr mg/L	Co mg/L	Cu mg/L	Fe mg/L	Li mg/L	Mg mg/L	Mn mg/L	Hg mg/L	Mo mg/L	Ni mg/L	P mg/L	Pb mg/L	K mg/L	Na mg/L	Sr mg/L	Se mg/L	Sb mg/L	Tl mg/L	Ti mg/L	U mg/L	Zn mg/L	Sn mg/L
MDMER			0.1								0.1							0.25		0.08									0.4	
Directive 019 (2025)			0.1								0.1	3						0.25		0.08									0.4	
CVAC (hardness 10mg/L)			0.15		0.038	0.000138	0.00005			0.1	0.0013	0.65	0.44		0.26	0.00091	3.2	0.007		0.00017			21	0.005	0.24	0.0072		0.014	0.017	
CVAA (hardness 10mg/L)			0.34		0.11	0.00124	0.0002			0.37	0.0016	3.4	0.91		0.6	0.0016	29	0.07		0.004			40	0.062	1.1	0.047		0.32	0.017	
CVAC (hardness 40mg/L)					0.165	0.001425046	0.00014				0.0043				0.86			0.024		0.00099									0.055	
CVAA (hardness 40mg/L)					0.47	0.012825099	0.0008				0.0059				1.9			0.22		0.025									0.055	
CVAC (hardness 400mg/L)					1.911	0.068822	0.0076				0.0305				6.52			0.169		0.01858									0.388	
CVAA (hardness 400mg/L)					5.45	0.61939	0.0087				0.0517				14.1			1.52		0.477									0.388	
CCME (long-term)		0.005[b]	0.005	1.5			0.00004[d]				0.002[g]	0.3			0.23[i]	0.000026	0.073	0.025[k]		0.001[m]				0.001		0.0008		0.015	0.02[o]	
CCME (long-term)		0.1[c]					0.00037[e]				0.004[h]				1.2[j]			0.15[l]		0.007[n]									0.312[p]	
CCME (long-term)							0.00007[f]																						0.037[q]	
Station	**Time**	**Effluent**																												
Effluent (pH 8)	n/a	0.39871	0.03473	0.27582	0.05568	3.98717E-05	0.001822568	289.54	0.00649	0.00378107	0.05632	1.26081	0.03554	46.3083	0.25157	0.001001526	0.0502	0.0502	3.98725	0.00252	50.1944	25.0428	0.85245	0.003987164	0.005019921	0.0001002	0.01001	0.16351396	0.14145	2.0925E-05
	n/a	0.39871	0.03473	0.27582	0.05568	3.98717E-05	0.001822568	289.54	0.00649	0.00378107	0.05632	1.26081	0.03554	46.3083	0.25157	0.001001526	0.0502	0.0502	3.98725	0.00252	50.1944	25.0428	0.85245	0.003987164	0.005019921	0.0001002	0.01001	0.16351396	0.14145	2.0925E-05
	n.a	0.39871	0.03473	0.27582	0.05568	3.98717E-05	0.001822568	289.54	0.00649	0.00378107	0.05632	1.26081	0.03554	46.3083	0.25157	0.001001526	0.0502	0.0502	3.98725	0.00252	50.1944	25.0428	0.85245	0.003987164	0.005019921	0.0001002	0.01001	0.16351396	0.14145	2.0925E-05
Year 21 Historical Conditions																														
Junction 2	November	0.1574	0.00421	0.09249	0.00978	9.11672E-06	0.000224929	32.9253	0.00126	0.000441942	0.0149	0.3011	0.00419	5.24064	0.04566	0.000111769	0.00589	0.00789	0.44512	0.00049	5.85262	3.18477	0.10093	0.000669715	0.000657248	0.0003229	0.00296	0.01788454	0.03244	2.2879E-06
	December	0.17723	0.00661	0.10737	0.01342	1.15698E-05	0.000350664	53.0993	0.00168	0.000704564	0.01822	0.37776	0.00666	8.46932	0.06198	0.000181706	0.00937	0.01123	0.72352	0.00065	9.3398	4.90579	0.16005	0.000932202	0.001000892	0.0003078	0.00353	0.029327542	0.04113	3.75242E-06
	January	0.18859	0.00804	0.11599	0.01556	1.30109E-05	0.000425352	65.0947	0.00192	0.000860635	0.02017	0.42274	0.00812	10.3887	0.07162	0.000223297	0.01144	0.01321	0.88907	0.00074	11.4124	5.92745	0.19517	0.001087358	0.001204864	0.0002976	0.00386	0.036135169	0.04624	4.6234E-06
	February	0.19684	0.00908	0.12226	0.01714	1.40635E-05	0.000480109	73.8918	0.0021	0.000975112	0.02158	0.45559	0.0092	11.7964	0.07868	0.000253786	0.01296	0.01466	1.0149	0.00081	12.9325	6.67669	0.22093	0.001201061	0.001354458	0.0002899	0.0041	0.041126635	0.04997	5.2623E-06
	March	0.23105	0.01343	0.14828	0.02367	1.84371E-05	0.00070759	110.431	0.00284	0.001450582	0.02747	0.59207	0.01366	17.6447	0.10798	0.000380499	0.01927	0.02068	1.5149	0.0011	19.2469	9.78881	0.32794	0.001673162	0.001975556	0.0002577	0.00511	0.061866094	0.06547	7.91641E-06
	April	0.12906	0.00047	0.0707	0.0042	5.39875E-06	2.93873E-05	1.48517	0.00063	3.29734E-05	0.00992	0.18524	0.00035	0.20874	0.02062	2.73344E-06	0.00046	0.00273	0.01106	0.00024	0.42136	0.51056	0.0089	0.000265629	0.000123672	0.0003536	0.00212	3.46165E-05	0.01926	3.53566E-09
	May	0.13835	0.00366	0.08122	0.00854	7.98218E-06	0.000195398	28.56	0.0011	0.000383541	0.01306	0.26373	0.00364	4.54552	0.03989	9.69171E-05	0.00511	0.00688	0.38596	0.00042	5.07887	2.76797	0.08761	0.000584422	0.000571505	0.0002851	0.0026	0.015501871	0.0284	1.98305E-06
	June	0.17856	0.00887	0.112	0.01636	1.32001E-05	0.000468575	72.465	0.00199	0.000954749	0.02007	0.42643	0.009	11.5723	0.07495	0.000249173	0.01269	0.0141	0.99209	0.00077	12.6647	6.5045	0.21616	0.001149973	0.001317078	0.000244	0.00379	0.04042683	0.0469	5.17279E-06
	July	0.17421	0.00767	0.10758	0.0147	1.21935E-05	0.000405983	62.2812	0.00181	0.000822794	0.01882	0.39569	0.00776	9.94123	0.06757	0.000213769	0.01094	0.01252	0.85113	0.0007	10.9112	5.65272	0.18652	0.001028375	0.001148002	0.0002674	0.00359	0.034611784	0.04333	4.42871E-06
	August	0.15006	0.00456	0.08913	0.01003	9.07617E-06	0.000243129	36.1091	0.00128	0.000482276	0.01463	0.29847	0.00457	5.75251	0.04665	0.000123006	0.00642	0.00821	0.48982	0.00049	6.38944	3.42479	0.10988	0.000690932	0.000703408	0.0002914	0.00288	0.019756876	0.03228	2.52757E-06
	September	0.15089	0.00474	0.08988	0.01028	9.22847E-06	0.000252088	37.5631	0.0013	0.000501155	0.01483	0.30315	0.00474	5.98535	0.04773	0.000128057	0.00667	0.00844	0.50995	0.0005	6.64006	3.54709	0.11413	0.000708698	0.000727723	0.0002887	0.00291	0.020585454	0.03282	2.6337E-06
	October	0.15874	0.00525	0.09501	0.01115	9.89357E-06	0.000279045	41.7933	0.00141	0.000556615	0.0158	0.32441	0.00527	6.66151	0.05171	0.000142654	0.00741	0.00922	0.56806	0.00054	7.37629	3.91907	0.12665	0.000770847	0.00080263	0.0002957	0.00309	0.022961935	0.03518	2.93772E-06
Junction 3	November	0.19861	0.0098	0.12502	0.01892	2.49394E-05	0.000541802	80.7331	0.00218	0.001091998	0.0235	0.49376	0.01121	12.886	0.08337	0.000270034	0.014	0.016	1.07346	0.00087	14.2842	7.3519	0.25841	0.001304735	0.001501301	0.0002775	0.01049	0.044266236	0.05714	5.6113E-06
	December	0.19607	0.00965	0.12417	0.01982	3.9376E-05	0.000568478	80.5608	0.0021	0.001129699	0.02495	0.51695	0.01286	12.8488	0.08276	0.000258741	0.01377	0.01635	1.02601	0.00087	14.4996	7.48087	0.28281	0.001332213	0.001544891	0.0002803	0.01936	0.043085613	0.06375	5.38469E-06
	January	0.22062	0.01338	0.14526	0.02731	6.83367E-05	0.000823455	113.846	0.00264	0.001631947	0.03268	0.67908	0.01982	18.1607	0.10824	0.000355626	0.01917	0.02245	1.40748	0.00114	20.6744	10.5576	0.42341	0.001808974	0.00218961	0.0002486	0.03562	0.060114201	0.08909	7.43315E-06
	February	0.26587	0.01915	0.17976	0.03603	7.49174E-05	0.001127063	162.388	0.00363	0.002265673	0.04057	0.86152	0.02584	25.9286	0.14712	0.000523359	0.02754	0.03046	2.07509	0.00152	29.0751	14.699	0.56689	0.002437574	0.003017213	0.0002058	0.03742	0.08760416	0.11003	1.09473E-05
	March	0.24634	0.01652	0.16433	0.03165	6.6463E-05	0.00097572	139.836	0.0032	0.00195633	0.0364	0.76865	0.02242	22.3234	0.12933	0.000449442	0.02373	0.02661	1.7818	0.00134	25.0812	12.723	0.49092	0.002135631	0.002615648	0.0002264	0.03327	0.075236178	0.09789	9.39459E-06
	April	0.25151	0.01632	0.16495	0.02884	3.25953E-05	0.000885373	135.568	0.00329	0.001808494	0.03257	0.70264	0.01802	21.6604	0.12757	0.000459371	0.02346	0.0251	1.82702	0.0013	23.7788	12.037	0.4208	0.002018612	0.002437879	0.0002343	0.01265	0.075298065	0.08113	9.57717E-06
	May	0.17134	0.00876	0.10799	0.01614	1.44258E-05	0.000466305	71.7757	0.00194	0.000949455	0.01964	0.41755	0.00909	11.4627	0.07339	0.000245743	0.01254	0.0139	0.97818	0.00075	12.5642	6.44242	0.21661	0.001132128	0.001305632	0.0002274	0.00463	0.039957913	0.04641	5.10477E-06
	June	0.18751	0.01126	0.12118	0.01998	1.89833E-05	0.000602146	93.021	0.00235	0.001231488	0.02303	0.49569	0.01193	14.862	0.08984	0.000317875	0.01617	0.01739	1.26497	0.00092	16.2672	8.26298	0.28242	0.00140454	0.001671034	0.0001997	0.00648	0.05187364	0.05592	6.61868E-06
	July	0.18642	0.01021	0.11873	0.01855	1.76675E-05	0.00054586	83.9554	0.0022	0.001112837	0.02207	0.47124	0.01077	13.41	0.0837	0.000286703	0.01463	0.01603	1.14095	0.00086	14.7014	7.50754	0.25522	0.001300392	0.001520904	0.0002279	0.00602	0.046722695	0.0529	5.96209E-06
	August	0.18356	0.00963	0.11623	0.0178	1.81496E-05	0.00051788	79.114	0.0021	0.001052728	0.02152	0.45738	0.01029	12.6337	0.08006	0.000269132	0.01378	0.01529	1.07086	0.00082	13.8834	7.11051	0.2428	0.001243383	0.0014431	0.0002375	0.00653	0.04388777	0.05157	5.59421E-06
	September	0.18029	0.00933	0.11394	0.01731	1.74872E-05	0.00050176	76.6492	0.00205	0.001019676	0.02102	0.44621	0.00995	12.2398	0.07795	0.000260867	0.01336	0.01486	1.03796	0.0008	13.451	6.8944	0.23499	0.001208957	0.001399509	0.0002367	0.00624	0.042521484	0.05022	5.42089E-06
	October	0.19925	0.01104	0.12722	0.02013	2.07785E-05	0.000594412	90.9731	0.00236	0.001210368	0.0239	0.51002	0.01187	14.53	0.09026	0.00030941	0.01582	0.01737	1.23105	0.00093	15.956	8.14482	0.27945	0.001407857	0.001651674	0.0002404	0.00755	0.05051215	0.05776	6.43657E-06
Junction 4	November	0.1983	0.00978	0.12481	0.01889	2.48998E-05	0.000540936	80.6049	0.00217	0.001090261	0.02346	0.49297	0.01119	12.8654	0.08324	0.000269613	0.01398	0.01597	1.07175	0.00086	14.2615	7.34017	0.258	0.001302603	0.001498866	0.000277	0.01047	0.044197208	0.05705	5.60228E-06
	December	0.19603	0.00965	0.12414	0.01982	3.9367E-05	0.000568354	80.5407	0.0021	0.001129475	0.02494	0.51683	0.01285	12.8462	0.08274	0.000258681	0.01377	0.01635	1.02576	0.00087	14.4965	7.47926	0.28275	0.001331897	0.001544526	0.0002802	0.01935	0.043076092	0.06374	5.3835E-06
	January	0.22062	0.01338	0.14526	0.02731	6.83358E-05	0.000823444	113.846	0.00264	0.001631919	0.03268	0.67908	0.01982	18.1605	0.10823	0.000355626	0.01917	0.02245	1.40745	0.00114	20.674	10.5576	0.42341	0.001808974	0.00218961	0.0002486	0.03562	0.060111821	0.08909	7.43303E-06
	February	0.26587	0.01915	0.17976	0.03603	7.49174E-05	0.001127063	162.388	0.00363	0.002265673	0.04057	0.86152	0.02584	25.9286	0.14712	0.000523359	0.02754	0.03046	2.07509	0.00152	29.0751	14.699	0.56689	0.002437574	0.003017213	0.0002058	0.03742	0.08760416	0.11003	1.09473E-05
	March	0.24634	0.01652	0.16433	0.03165	6.6463E-05	0.00097572	139.836	0.0032	0.00195633	0.0364	0.76865	0.02242	22.3234	0.12933	0.000449442	0.02373	0.02661	1.7818	0.00134	25.0812	12.723	0.49092	0.002135631	0.002615648	0.0002264	0.03327	0.075236178	0.09789	9.39459E-06
	April	0.25151	0.01632	0.16495	0.02884	3.25953E-05	0.000885373	135.568	0.00329	0.001808494	0.03257	0.70264	0.01802	21.6604	0.12757	0.000459371	0.02346	0.0251	1.82702	0.0013	23.7788	12.037	0.4208	0.002018612	0.002437879	0.0002343	0.01265	0.075298065	0.08113	9.57717E-06
	May	0.16791	0.00859	0.10582	0.01582	1.41365E-05	0.00045694	70.3369	0.0019	0.000930408	0.01924	0.40917	0.00891	11.2326	0.07191	0.000240808	0.01229	0.01362	0.95855	0.00074	12.3121	6.31322	0.21227	0.001109388	0.001279454	0.0002228	0.00454	0.039155756	0.04547	5.00232E-06
	June	0.18376	0.01104	0.11875	0.01958	1.86029E-05	0.000590095	91.1574	0.0023	0.001206811	0.02256	0.48576	0.01169	14.5643	0.08804	0.000311516	0.01585	0.01705	1.23963	0.0009	15.9415	8.09746	0.27676	0.001376352	0.00163755	0.0001957	0.00635	0.050835834	0.0548	6.48608E-06
	July	0.18348	0.01005	0.11686	0.01825	1.7389E-05	0.000537271	82.6368	0.00216	0.001095331	0.02172	0.46383	0.0106	13.1991	0.08239	0.00028219	0.0144	0.01578	1.12298	0.00084	14.4703	7.3896	0.25121	0.001279942	0.001496917	0.0002243	0.00593	0.045987185	0.05206	5.86831E-06
	August	0.18096	0.00949	0.11459	0.01755	1.67928E-05	0.000510562	77.9958	0.00207	0.001037855	0.02122	0.45091	0.01015	12.4551	0.07893	0.00026534	0.01358	0.01508	1.05571	0.00081	13.6871	7.00981	0.23937	0.001225775	0.001422766	0.0002341	0.00643	0.043268895	0.05084	5.51503E-06
	September	0.17758	0.00919	0.11223	0.01705	1.7225E-05	0.000494228	75.4989	0.00202	0.001004355	0.0207	0.43951	0.0098	12.056	0.07678	0.000256936	0.01316	0.01463	1.02235	0.00079	13.2488	6.79072	0.23146	0.001190796	0.001378445	0.0002332	0.00615	0.041883567	0.04947	5.33946E-06
	October	0.19719	0.01093	0.12591	0.01992	2.05649E-05	0.000588285	90.0352	0.00234	0.001197904	0.02365	0.50477	0.01174	14.3803	0.08933	0.000306241	0.01566	0.01719	1.21835	0.00092	15.7918	8.0609	0.27657	0.001393328	0.001634628	0.0002379	0.00747	0.049993212	0.05716	6.37033E-06
Junction 5	November	0.19817	0.00978	0.12474	0.01888	2.48844E-05	0.000540599	80.5568	0.00217	0.001089589	0.02345	0.49268	0.01118	12.8576	0.08319	0.000269453	0.01397	0.01596	1.0711	0.00086	14.2529	7.33581	0.25784	0.001301814	0.001497892	0.0002769	0.01047	0.044168645	0.05702	5.59884E-06
	December	0.19602	0.00965	0.12413	0.01982	3.93643E-05	0.000568298	80.5367	0.0021	0.001129363	0.02494	0.51679	0.01285	12.8449	0.08273	0.000258661	0.01377	0.01635	1.02567	0.00087	14.4953	7.47857	0.28272	0.001331818	0.001544404	0.0002802	0.01935	0.043071331	0.06373	5.38302E-06
	January	0.22061	0.01338	0.14526	0.02731	6.83349E-05	0.000823433	113.842	0.00264	0.001631891	0.03268	0.67908	0.01982	18.1602	0.10823	0.000355606	0.01917	0.02245	1.40742	0.00114	20.6736	10.5574	0.4234	0.001808974	0.00218961	0.0002486	0.03562	0.060111821	0.08909	7.43303E-06
	February	0.26587	0.01915	0.17976	0.03603	7.49174E-05	0.001127063	162.388	0.00363	0.002265673	0.04057	0.86152	0.02584	25.9286	0.14712	0.000523359	0.02754	0.03046	2.07509	0.00152	29.0751	14.699	0.56689	0.002437574	0.003017213	0.0002058	0.03742	0.08760416	0.11003	1.09473E-05
	March	0.24634	0.01652	0.16433	0.03165	6.6463E-05	0.00097572	139.836	0.0032	0.00195633	0.0364	0.76865	0.02242	22.3234	0.12933	0.000449442	0.02373	0.02661	1.7818	0.00134	25.0812	12.723	0.49092	0.002135631	0.002615648	0.0002264	0.03327	0.075236178	0.09789	9.39459E-06
	April	0.25151	0.01632	0.16495	0.02884	3.25953E-05	0.000885373	135.568	0.00329	0.001808494	0.03257	0.70264	0.01802	21.6604	0.12757	0.000459371	0.02346	0.0251	1.82702	0.0013	23.7788	12.037	0.4208	0.002018612	0.002437879	0.0002343	0.01265	0.075298065	0.08113	9.57717E-06
	May	0.16665	0.00852	0.10502	0.0157	1.40284E-05	0.000453467	69.7998	0.00189	0.000923322	0.0191	0.40605	0.00884	11.1472	0.07137	0.000238983	0.01219	0.01352	0.95124	0.00073	12.2182	6.26517	0.21066	0.001100939	0.001269713	0.0002211	0.0045	0.03885822	0.04513	4.96421E-06
	June	0.18236	0.01095	0.11785	0.01943	1.84615E-05	0.000585609	90.4681	0.00228	0.001197652	0.02239	0.48208	0.0116	14.4537	0.08737	0.000309149	0.01573	0.01692	1.23022	0.00089	15.8203	8.03584	0.27466	0.001365929	0.001625131	0.0001942	0.0063	0.050450227	0.05439	6.43681E-06
	July	0.18239	0.00999	0.11616	0.01815	1.72854E-05	0.000534056	82.1439	0.00215	0.001088805	0.02159	0.46106	0.01054	13.1201	0.08189	0.000280505	0.01431	0.01568	1.11626	0.00084	14.3835	7.34523	0.2497	0.001272282	0.001488029	0.000223	0.00589	0.045713452	0.05175	5.83329E-06
	August	0.17999	0.00944	0.11397	0.01745	1.77973E-05	0.000507819	77.575	0.00206	0.001032281	0.02111	0.44849	0.01009	12.388	0.07851	0.000263916	0.01351	0.015	1.05004	0.00081	13.6136	6.97234	0.23808	0.001219221	0.001415095	0.0002328	0.0064	0.043035627	0.05056	5.48547E-06
	September	0.17657	0.00914	0.11159	0.01695	1.71268E-05	0.000491407	75.0661	0.00201	0.000998641	0.02058	0.437	0.00975	11.9872	0.07634	0.000255471	0.01308	0.01455	1.01653	0.00079	13.1734	6.7521	0.23014	0.001184005	0.001370531	0.0002319	0.00611	0.041643158	0.04919	5.30907E-06
	October	0.19642	0.01088	0.12542	0.01985	2.04838E-05	0.00058598	89.6825	0.00233	0.001193198	0.02356	0.50278	0.0117	14.3239	0.08898	0.000305037	0.0156	0.01712	1.21358	0.00091	15.7296	8.02941	0.27549	0.00138788	0.001628296	0.000237	0.00744	0.049795648	0.05694	6.34541E-06

Notes: [a] Regulation criteria applies to total concentrations.

CCME criteria for:

Aluminium depends on pH conditions. Values are provided for reference given [b] pH<6.5 and [c] pH>=6.5

Cadmium depends on hardness concentrations. Values are provided for reference given a hardness of [d] 0--17, [e] >=280 and [f] 40 mg/L.

Copper depends on hardness concentrations. Values are provided for reference given a hardness of [g] 0--82 and [h] >=180 mg/L.

Manganese depends on hardness concentrations and pH conditions. Values are provided for reference given a hardness of [i] 10-24 and [j] >=670 mg/L and pH of [i] 6.7-6.9 and [j] 6.5-6.7.

Nickel depends on hardness concentrations. Values are provided for reference given a hardness of [k] <=60 and [l] >=180 mg/L.

Lead depends on hardness concentrations. Values are provided for reference given a hardness of [m] <=60 and [n] >=180 mg/L.

Zinc depends on hardness and DOC concentrations, and pH conditions. Values are provided for reference given a pH of [o,p,q] 6.5-6.7, [o,p,q] DOC 8 mg/L and hardness [o] 8, [p] 399, and [q] 38 mg/L.

Table J: Dissolved Metals. Historical Conditions. No precipitation. Effluent pH of 8

Regulation[a]		Al	As	B	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Li	Mg	Mn	Hg	Mo	Ni	P	Pb	K	Na	Sr	Se	Sb	Tl	Ti	U	Zn	Sn
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MDMER			0.1								0.1							0.25		0.08									0.4	
Directive 019 (2025)			0.1								0.1	3						0.25		0.08									0.4	
CVAC (hardness 10mg/L)			0.15		0.038	0.000138	0.00005			0.1	0.0013	0.65	0.44		0.26	0.00091	3.2	0.007		0.00017			21	0.005	0.24	0.0072		0.014	0.017	
CVAA (hardness 10mg/L)			0.34		0.11	0.00124	0.0002			0.37	0.0016	3.4	0.91		0.6	0.0016	29	0.07		0.004			40	0.062	1.1	0.047		0.32	0.017	
CVAC (hardness 40mg/L)					0.165	0.001425046	0.00014				0.0043				0.86			0.024		0.00099									0.055	
CVAA (hardness 40mg/L)					0.47	0.012825099	0.0008				0.0059				1.9			0.22		0.025									0.055	
CVAC (hardness 400mg/L)					1.911	0.068822	0.0076				0.0305				6.52			0.169		0.01858									0.388	
CVAA (hardness 400mg/L)					5.45	0.61939	0.0087				0.0517				14.1			1.52		0.477									0.388	
CCME (long-term)		0.005[b]	0.005	1.5			0.00004[d]				0.002[g]	0.3			0.23[i]	0.000026	0.073	0.025[k]		0.001[m]				0.001		0.0008		0.015	0.02[o]	
CCME (long-term)		0.1[c]					0.00037[e]				0.004[h]				1.2[j]			0.15[l]		0.007[n]									0.312[p]	
CCME (long-term)							0.00007[f]																						0.037[q]	
Station	**Time**															**Effluent**														
Junction 6	November	0.19805	0.00977	0.12466	0.01887	2.487E-05	0.000540273	80.5087	0.00217	0.001088917	0.02343	0.49237	0.01118	12.8498	0.08314	0.000269272	0.01396	0.01595	1.07045	0.00086	14.2439	7.33121	0.25768	0.001301024	0.001497039	0.0002767	0.01046	0.044142461	0.05698	5.5954E-06
	December	0.196	0.00965	0.12412	0.01982	3.93607E-05	0.000568253	80.5287	0.0021	0.001129251	0.02494	0.51674	0.01285	12.8437	0.08273	0.000258621	0.01377	0.01634	1.02557	0.00087	14.4941	7.47788	0.2827	0.00133166	0.001544282	0.0002801	0.01935	0.043068951	0.06372	5.38255E-06
	January	0.22061	0.01338	0.14526	0.02731	6.8334E-05	0.000823421	113.842	0.00264	0.001631863	0.03268	0.67908	0.01982	18.16	0.10823	0.000355606	0.01917	0.02245	1.40742	0.00114	20.6736	10.5574	0.4234	0.001808974	0.002189488	0.0002486	0.03562	0.060111821	0.08909	7.43291E-06
	February	0.26587	0.01915	0.17976	0.03603	7.49174E-05	0.001127063	162.388	0.00363	0.002265673	0.04057	0.86152	0.02584	25.9286	0.14712	0.000523359	0.02754	0.03046	2.07509	0.00152	29.0751	14.699	0.56689	0.002437574	0.003017213	0.0002058	0.03742	0.08760416	0.11003	1.09473E-05
	March	0.24634	0.01652	0.16433	0.03165	6.6463E-05	0.00097572	139.836	0.0032	0.00195633	0.0364	0.76865	0.02242	22.3234	0.12933	0.000449442	0.02373	0.02661	1.7818	0.00134	25.0812	12.723	0.49092	0.002135631	0.002615648	0.0002264	0.03327	0.075236178	0.09789	9.39459E-06
	April	0.25151	0.01632	0.16495	0.02884	3.25953E-05	0.000885373	135.568	0.00329	0.001808494	0.03257	0.70264	0.01802	21.6604	0.12757	0.000459371	0.02346	0.0251	1.82702	0.0013	23.7788	12.037	0.4208	0.002018612	0.002437879	0.0002343	0.01265	0.075298065	0.08113	9.57717E-06
	May	0.16536	0.00846	0.10422	0.01558	1.3922E-05	0.000450016	69.2708	0.00187	0.000916291	0.01895	0.40297	0.00877	11.0624	0.07083	0.000237158	0.0121	0.01342	0.94402	0.00073	12.1252	6.21735	0.20905	0.00109257	0.001259972	0.0002194	0.00447	0.038563064	0.04478	4.92647E-06
	June	0.18098	0.01087	0.11695	0.01928	1.83218E-05	0.000581169	89.7787	0.00227	0.001188576	0.02222	0.47841	0.01151	14.3441	0.08671	0.000306802	0.01561	0.01679	1.22086	0.00089	15.7003	7.97492	0.27258	0.001355585	0.001612833	0.0001928	0.00625	0.050067001	0.05397	6.38802E-06
	July	0.18129	0.00993	0.11547	0.01804	1.71817E-05	0.000530864	81.6509	0.00214	0.001082278	0.02146	0.4583	0.01047	13.0416	0.0814	0.00027882	0.01422	0.01559	1.1096	0.00083	14.2975	7.30132	0.24821	0.001264702	0.00147914	0.0002216	0.00586	0.045439719	0.05144	5.79839E-06
	August	0.17903	0.00939	0.11336	0.01736	1.77017E-05	0.000505099	77.1582	0.00205	0.001026735	0.02099	0.44608	0.01004	12.3217	0.07808	0.000262492	0.01344	0.01491	1.0444	0.0008	13.5405	6.93486	0.2368	0.001212668	0.001407546	0.0002316	0.00636	0.042804739	0.05029	5.45603E-06
	September	0.17556	0.00909	0.11095	0.01685	1.70285E-05	0.000488607	74.6413	0.002	0.000992955	0.02047	0.43451	0.00969	11.9189	0.0759	0.000254027	0.01301	0.01447	1.01074	0.00078	13.0983	6.7137	0.22883	0.001177215	0.001362738	0.0002305	0.00608	0.041407509	0.0489	5.2788E-06
	October	0.19565	0.01084	0.12492	0.01977	2.04036E-05	0.000583687	89.3299	0.00232	0.00118852	0.02347	0.50081	0.01165	14.2678	0.08863	0.000303834	0.01553	0.01705	1.20884	0.00091	15.6683	7.99791	0.27441	0.001382432	0.001621843	0.0002361	0.00741	0.049600464	0.05672	6.32048E-06
OutletSP04	November	0.23934	0.00022	0.0707	0.00567	1.30091E-05	7.93946E-05	0.57175	0.00013	4.81744E-05	0.00808	0.31471	0.00035	0.32335	0.01762	2.18001E-06	0.00017	0.00077	0.02712	0.00044	0.51668	0.8317	0.017	8.91222E-06	6.74733E-05	0.0003536	0.00212	0.000137981	0.0087	3.53578E-09
	December	0.23934	0.00022	0.0707	0.00567	1.30091E-05	7.93946E-05	0.57175	0.00013	4.81744E-05	0.00808	0.31471	0.00035	0.32335	0.01762	2.18001E-06	0.00017	0.00077	0.02712	0.00044	0.51668	0.8317	0.017	8.91222E-06	6.74733E-05	0.0003536	0.00212	0.000137981	0.0087	3.53578E-09
	January	0.23934	0.00022	0.0707	0.00567	1.30091E-05	7.93946E-05	0.57175	0.00013	4.81744E-05	0.00808	0.31471	0.00035	0.32335	0.01762	2.18001E-06	0.00017	0.00077	0.02712	0.00044	0.51668	0.8317	0.017	8.91222E-06	6.74733E-05	0.0003536	0.00212	0.000137981	0.0087	3.53578E-09
	February	0.23934	0.00022	0.0707	0.00567	1.30091E-05	7.93946E-05	0.57175	0.00013	4.81744E-05	0.00808	0.31471	0.00035	0.32335	0.01762	2.18001E-06	0.00017	0.00077	0.02712	0.00044	0.51668	0.8317	0.017	8.91222E-06	6.74733E-05	0.0003536	0.00212	0.000137981	0.0087	3.53578E-09
	March	0.23934	0.00022	0.0707	0.00567	1.30091E-05	7.93946E-05	0.57175	0.00013	4.81744E-05	0.00808	0.31471	0.00035	0.32335	0.01762	2.18001E-06	0.00017	0.00077	0.02712	0.00044	0.51668	0.8317	0.017	8.91222E-06	6.74733E-05	0.0003536	0.00212	0.000137981	0.0087	3.53578E-09
	April	0.23934	0.00022	0.0707	0.00567	1.30091E-05	7.93946E-05	0.57175	0.00013	4.81744E-05	0.00808	0.31471	0.00035	0.32335	0.01762	2.18001E-06	0.00017	0.00077	0.02712	0.00044	0.51668	0.8317	0.017	8.91222E-06	6.74733E-05	0.0003536	0.00212	0.000137981	0.0087	3.53578E-09
	May	0.39188	0.03325	0.26702	0.05353	3.8719E-05	0.001747813	277.143	0.00622	0.003620853	0.05425	1.22021	0.03403	44.3372	0.24154	0.00095866	0.04805	0.04808	3.81721	0.00243	48.0635	24.0036	0.8166	0.003816532	0.004807572	0.000111	0.00967	0.156504008	0.13576	2.00276E-05
	June	0.39533	0.03399	0.27145	0.05461	3.92994E-05	0.001785359	283.384	0.00635	0.003701522	0.05529	1.24065	0.03479	45.3288	0.24659	0.000980243	0.04914	0.04915	3.90269	0.00247	49.1387	24.5255	0.83465	0.00390244	0.004914477	0.0001056	0.00984	0.160033977	0.13862	2.04798E-05
	July	0.39363	0.03363	0.26928	0.05408	3.90146E-05	0.001766923	280.322	0.00629	0.003662027	0.05478	1.23066	0.03441	44.8427	0.24411	0.000969652	0.0486	0.04862	3.86088	0.00245	48.6109	24.2703	0.82579	0.003860275	0.004861999	0.0001082	0.00976	0.158301127	0.13721	2.02579E-05
	August	0.38708	0.03221	0.26082	0.05202	3.79079E-05	0.001695091	268.414	0.00603	0.003508253	0.05279	1.19168	0.03296	42.9469	0.23447	0.000928471	0.04654	0.04658	3.69765	0.00236	46.5622	23.2725	0.79138	0.003696354	0.004657929	0.0001187	0.00944	0.151569669	0.13175	1.9396E-05
	September	0.39382	0.03367	0.26953	0.05414	3.90471E-05	0.001769059	280.666	0.0063	0.003666509	0.05484	1.23177	0.03446	44.8962	0.24439	0.000970856	0.04866	0.04868	3.86553	0.00245	48.6696	24.2979	0.8268	0.003865013	0.004867965	0.0001079	0.00977	0.158498691	0.13738	2.02828E-05
	October	0.39358	0.03362	0.26921	0.05407	3.90065E-05	0.001766361	280.233	0.00629	0.003660907	0.05477	1.23032	0.0344	44.8281	0.24404	0.000969351	0.04859	0.04861	3.85964	0.00245	48.5953	24.2611	0.82555	0.003859091	0.004860537	0.0001083	0.00976	0.158253521	0.13717	2.02519E-05
Lake A	November	0.20656	0.01015	0.12108	0.01897	2.0464E-05	0.000555528	83.6308	0.00214	0.001117235	0.02228	0.4983	0.01093	13.3933	0.08378	0.000284717	0.01454	0.01585	1.13544	0.00089	14.7135	7.56662	0.25863	0.001273151	0.001518104	0.0002414	0.00703	0.046482286	0.05269	5.92149E-06
	December	0.2073	0.01032	0.12274	0.01937	2.24349E-05	0.000568005	85.1658	0.00217	0.001142052	0.02284	0.50687	0.01133	13.6334	0.08516	0.000288609	0.01478	0.0162	1.15033	0.00091	15.0079	7.71353	0.26619	0.001302682	0.001551588	0.0002438	0.00823	0.047198753	0.05452	6.00352E-06
	January	0.21005	0.01074	0.12559	0.02019	2.51115E-05	0.000595176	88.889	0.00224	0.001196615	0.02373	0.52421	0.01205	14.2255	0.08818	0.000299802	0.01539	0.0169	1.19438	0.00094	15.6886	8.05171	0.28094	0.001358665	0.001623061	0.0002426	0.00974	0.049131547	0.05732	6.23928E-06
	February	0.21583	0.01157	0.13087	0.02165	2.87732E-05	0.000644661	96.0269	0.00238	0.001297227	0.02523	0.55519	0.01325	15.3637	0.09393	0.000322408	0.01659	0.01818	1.28368	0.00099	16.9691	8.68599	0.30669	0.001460365	0.00175444	0.0002386	0.01169	0.052959052	0.06186	6.71436E-06
	March	0.21969	0.01213	0.13451	0.02264	3.12245E-05	0.00067789	100.832	0.00248	0.001364871	0.02626	0.57604	0.01406	16.1293	0.09783	0.000337613	0.0174	0.01905	1.34377	0.00103	17.8304	9.11291	0.32399	0.001529534	0.001843081	0.0002363	0.01301	0.055534525	0.06495	7.03404E-06
	April	0.22879	0.01332	0.14297	0.0244	3.16246E-05	0.000737042	110.711	0.00271	0.001491084	0.02802	0.61201	0.01519	17.7033	0.10622	0.000372275	0.01912	0.02075	1.48135	0.00111	19.5226	9.94491	0.35154	0.001667004	0.00201184	0.0002347	0.0129	0.061161528	0.06946	7.75794E-06
	May	0.20822	0.01016	0.11847	0.01889	1.98493E-05	0.000557798	83.8752	0.0021	0.001119	0.02173	0.49818	0.01086	13.4494	0.08307	0.000286483	0.01457	0.01565	1.14364	0.0009	14.7487	7.58639	0.25826	0.001249937	0.001512868	0.0002264	0.00641	0.046758399	0.05102	5.96043E-06
	June	0.21333	0.01086	0.12131	0.01982	1.95339E-05	0.000592759	89.7186	0.0022	0.001192358	0.02235	0.5171	0.01145	14.3905	0.08736	0.000307605	0.01559	0.01651	1.22826	0.00094	15.7418	8.07309	0.27367	0.001313973	0.001606136	0.000214	0.00589	0.050178875	0.05246	6.40369E-06
	July	0.21138	0.01058	0.12013	0.01938	1.87769E-05	0.000576976	87.358	0.0016	0.001160314	0.022	0.50793	0.01111	14.0116	0.08563	0.000299742	0.01519	0.01613	1.19692	0.00093	15.3261	7.86779	0.26593	0.001285785	0.00156559	0.0002184	0.00555	0.048867335	0.05144	6.23809E-06
	August	0.20272	0.00949	0.11378	0.01775	1.78892E-05	0.000519802	78.1281	0.00198	0.0010474	0.02057	0.47395	0.01	12.5326	0.0783	0.000267547	0.0136	0.01463	1.06863	0.00085	13.7345	7.08361	0.23926	0.001168687	0.001409859	0.0002278	0.00545	0.043604516	0.04773	5.56358E-06
	September	0.20265	0.00947	0.11386	0.01773	1.77774E-05	0.000518791	78.0078	0.00198	0.001038891	0.02057	0.47344	0.00998	12.5127	0.07826	0.000267186	0.01358	0.01462	1.06714	0.00085	13.7118	7.07234	0.23874	0.001168213	0.001407789	0.0002288	0.0054	0.043540248	0.04771	5.55563E-06
	October	0.20742	0.01013	0.119	0.01878	1.88922E-05	0.000553009	83.4865	0.00211	0.001111325	0.02172	0.49498	0.01071	13.3828	0.08304	0.00028568	0.01452	0.01563	1.14024	0.00089	14.665	7.54202	0.25555	0.001250332	0.001505441	0.0002305	0.00592	0.046579877	0.05086	5.94215E-06
Junction 26	May	0.18997	0.00797	0.10815	0.0156	1.6951E-05	0.000438448	65.2109	0.00177	0.000873968	0.01919	0.4279	0.00853	10.4468	0.06908	0.000221853	0.01137	0.01278	0.88538	0.00075	11.509	5.98631	0.20242	0.001032402	0.001200785	0.000258	0.00572	0.036128028	0.04427	4.60334E-06
	June	0.19516	0.00862	0.1104	0.01645	1.6486E-05	0.000471262	70.6896	0.00186	0.000942312	0.01967	0.44553	0.00905	11.332	0.07297	0.000241851	0.01233	0.01354	0.96576	0.00079	12.4376	6.44196	0.21656	0.001087911	0.001286394	0.0002441	0.00508	0.039365221	0.0453	5.02333E-06
	July	0.19356	0.0084	0.10943	0.01609	1.58813E-05	0.000458458	68.7738	0.00183	0.000916319	0.01938	0.43809	0.00878	11.024	0.07156	0.000235453	0.012	0.01323	0.94024	0.00078	12.1001	6.27529	0.2103	0.001065012	0.001253519	0.0002477	0.00481	0.038296471	0.04447	4.88872E-06
	August	0.18771	0.00765	0.105	0.01499	1.53441E-05	0.000419866	62.5097	0.0017	0.00083537	0.0184	0.41511	0.00804	10.0212	0.06655	0.000213568	0.01092	0.01221	0.85311	0.00073	11.0214	5.74399	0.19232	0.000984631	0.00114771	0.0002534	0.00477	0.034726038	0.04192	4.43049E-06
	September	0.18729	0.0076	0.10486	0.01491	1.51936E-05	0.000416662	62.0367	0.00169	0.000828984	0.01835	0.4133	0.00797	9.94512	0.06623	0.000211984	0.01084	0.01214	0.84676	0.00072	10.9381	5.70307	0.19078	0.000979815	0.001139832	0.0002548	0.00471	0.034459445	0.04177	4.39702E-06
	October	0.19274	0.00832	0.10995	0.01605	1.63643E-05	0.000454917	68.1246	0.00183	0.000909317	0.01951	0.43695	0.00877	10.9149	0.07135	0.000232664	0.01189	0.01321	0.92872	0.00077	11.9965	6.22494	0.20934	0.001065881	0.001246579	0.0002536	0.00521	0.037860878	0.04494	4.82972E-06
Junction 27	May	0.19032	0.00804	0.10892	0.01574	1.73512E-05	0.000442686	65.8321	0.00179	0.000882903	0.01939	0.43073	0.00864	10.5438	0.06968	0.000223698	0.01148	0.01291	0.89257	0.00075	11.6212	6.04171	0.20479	0.001044167	0.001213265	0.0002593	0.00596	0.036446987	0.04487	4.64215E-06
	June	0.19327	0.00839	0.10927	0.0161	1.61688E-05	0.000458627	68.7097	0.00182	0.000916319	0.01939	0.43809	0.00881	11.0141	0.07147	0.000235031	0.01199	0.01323	0.93847	0.00078	12.0943	6.27253	0.21063	0.001064381	0.001253154	0.0002472	0.00499	0.038241725	0.04456	4.87981E-06
	July	0.19171	0.00817	0.10832	0.01575	1.55803E-05	0.000446137	66.8421	0.00179	0.000890942	0.01911	0.43083	0.00854	10.7136	0.0701	0.000228773	0.01167	0.01293	0.91357	0.00076	11.7651	6.10999	0.20451	0.001042035	0.001221009	0.0002507	0.00473	0.037199158	0.04375	4.7484E-06
	August	0.18615	0.00746	0.10408	0.0147	1.50792E-05	0.000409457	60.8825	0.00167	0.000813999	0.01817	0.40899	0.00783	9.75967	0.06532	0.000207952	0.01064	0.01196	0.83065	0.00071	10.7387	5.60468	0.18743	0.000965523	0.001120423	0.0002561	0.0047	0.033800105	0.04132	4.3125E-06
	September	0.1857	0.0074	0.10392	0.01461	1.49251E-05	0.000406028	60.3775	0.00166	0.000807136	0.01812	0.40704	0.00776	9.67801	0.06498	0.000206247	0.01056	0.01188	0.82384	0.00071	10.6496	5.56054	0.18578	0.000960233	0.001111949	0.0002575	0.00464	0.033516851	0.04115	4.27653E-06
	October	0.1912	0.00813	0.10901	0.01576	1.61003E-05	0.000444676	66.5215	0.0018	0.000888225	0.01928	0.43089	0.00857	10.6573	0.07013	0.000227128	0.01161	0.01296	0.90663	0.00076	11.7182	6.08723	0.20452	0.001046615	0.001219548	0.000256	0.00513	0.036949228	0.04432	4.7135E-06
Junction 28	May	0.14291	0.00219	0.07937	0.00681	8.11736E-06	0.000122936	16.0472	0.00089	0.000225352	0.01207	0.24082	0.00223	2.54741	0.03173	5.27271E-05	0.00295	0.00504	0.21049	0.00036	2.95614	1.76237	0.05325	0.000442018	0.000370345	0.0003324	0.003	0.008273171	0.02507	1.05298E-06
	June	0.14196	0.00206	0.07845	0.00659	7.56212E-06	0.000115607	14.9888	0.00087	0.000210411	0.01182	0.23603	0.00205	2.37917	0.03084	4.93933E-05	0.00277	0.00484	0.19735	0.00035	2.76613	1.66795	0.04942	0.000426068	0.000350559	0.0003322	0.0027	0.007709042	0.02434	9.83038E-07
	July	0.14271	0.00215	0.0789	0.00671	7.61728E-06	0.000120193	15.7254	0.00088	0.000219915	0.01192	0.23875	0.00214	2.49758	0.0314	5.19849E-05	0.0029	0.00495	0.20771	0.00035	2.89296	1.73058	0.05152	0.000434793	0.000362772	0.0003312	0.00269	0.008132258	0.0246	1.03738E-06
	August	0.1416	0.00201	0.07804	0.0065	7.52562E-06	0.000112897	14.5355	0.00086	0.000204577	0.01173	0.2344	0.002	2.30725	0.03044	4.78247E-05	0.0027	0.00476	0.19114	0.00034	2.68828	1.62981	0.04813	0.000419396	0.000342681	0.0003322	0.00269	0.007453637	0.02411	9.50285E-07
	September	0.14133	0.00197	0.0779	0.00645	7.46353E-06	0.000111019	14.2489	0.00085	0.000200762	0.0117	0.23331	0.00196	2.26105	0.03024	4.68438E-05	0.00265	0.00471	0.18722	0.00034	2.6382	1.60505	0.04724	0.000416174	0.000337872	0.0003328	0.00267	0.007291064	0.024	9.2963E-07
	October	0.14368	0.00227	0.07971	0.00692	7.91657E-06	0.000127095	16.7863	0.0009	0.000234192	0.01212	0.24304	0.00229	2.66699	0.03227	5.55293E-05	0.00308	0.00514	0.22177	0.00036	3.07919	1.82263	0.05492	0.000449377	0.000381511	0.0003307	0.00283	0.008719713	0.02516	1.11167E-06

Notes: [a] Regulation criteria applies to total concentrations.

CCME criteria for:

Aluminium depends on pH conditions. Values are provided for reference given [b] pH<6.5 and [c] pH>=6.5

Cadmium depends on hardness concentrations. Values are provided for reference given a hardness of [d] 0--17, [e] >=280 and [f] 40 mg/L.

Copper depends on hardness concentrations. Values are provided for reference given a hardness of [g] 0--82 and [h] >=180 mg/L.

Manganese depends on hardness concentrations and pH conditions. Values are provided for reference given a hardness of [i] 10-24 and [j] >=670 mg/L and pH of [i] 6.7-6.9 and [j] 6.5-6.7.

Nickel depends on hardness concentrations. Values are provided for reference given a hardness of [k] <=60 and [l] >=180 mg/L.

Lead depends on hardness concentrations. Values are provided for reference given a hardness of [m] <=60 and [n] >=180 mg/L.

Zinc depends on hardness and DOC concentrations, and pH conditions. Values are provided for reference given a pH of [o,p,q] 6.5-6.7, [o,p,q] DOC 8 mg/L and hardness [o] 8, [p] 399, and [q] 38 mg/L.

Table K: General Chemistry. Climate Change Conditions. Mineral precipitation was allowed. Effluent pH of 8

Regulation		Hardness mg/L	pH n/a	Alk mg/L	DOC mg/L	F mg/L	Si mg/L	Sulphate mg/L	Cl mg/L	Nitrate as N mg/L	Nitrite as N mg/L	Total Ammonia as N mg/L
MDMER												0.5[a]
CCME (long-term)			6.5-9							2.935483871	0.05995652	0.019[a]
CCME (long-term)												
CCME (long-term)												
Station	**Time**	**Effluent**										
Effluent (pH 8)	n/a	910.825656	8	126.122	4.465648	1.0015388	34.733625	795.6938	40.05141	5.776351443	0.03982558	0.11905348
	n/a	804.339649	7.6838	18.35424	4.465648	0.1860438	24.858573	795.5881	40.05141	5.776351443	0.03982558	0.11905348
	n/a	865.069869	6.97754	80.01994	4.465648	0.1860799	34.733625	795.5689	40.05141	5.770607733	0.03978598	0.118935099
Year 21 Historical Conditions												
Junction 2	November	25.7352176	6.93998	6.607201	8.958468	0.010276	2.2919614	21.2331	1.055417	0.184134949	0.00126954	0.003795113
	December	190.885805	7.11303	21.04738	8.158513	0.0437058	8.6883633	173.5996	8.728854	1.288790541	0.00888568	0.026562615
	January	184.377766	7.11032	20.48496	8.208068	0.0423474	8.4390085	167.5959	8.426465	1.245572623	0.00858771	0.025671872
	February	4.56815636	6.90502	4.960145	9.198706	0.0059106	1.4918629	1.670003	0.069996	0.003227965	2.2255E-05	6.653E-05
	March	316.876368	7.1432	32.07114	7.480771	0.0702086	13.557692	289.8322	14.58236	0.316408395	0.00218151	0.006521335
	April	4.56814635	7.57243	5.013108	9.198825	0.0059108	1.491923	1.670003	0.069996	0.199755039	0.00137723	0.004117051
	May	121.468583	7.61763	6.09634	6.939488	0.0301182	4.6776562	118.2403	5.942838	0.883438689	0.00609095	0.018208111
	June	163.967323	7.48917	7.106549	7.251785	0.0399612	6.0023612	160.2473	8.057785	1.188471736	0.00819403	0.024494994
	July	103.5768	7.36241	6.134979	7.680072	0.0263166	4.2484054	100.277	5.037445	0.756670799	0.00521694	0.015595362
	August	86.3145018	7.38203	5.894739	7.872549	0.0224523	3.7573867	83.11784	4.173174	0.633363144	0.00436678	0.01305393
	September	157.141065	7.5782	7.100644	7.496093	0.0384794	5.8329802	153.4078	7.712857	1.140042452	0.00786013	0.023496843
	October	147.278467	7.70464	7.008552	7.691683	0.0362888	5.5651791	143.5809	7.217975	1.069787068	0.00737574	0.022048844
Junction 3	November	125.659293	7.10776	16.04678	8.187839	0.034332	6.157562	113.1971	5.552534	0.861850744	0.00594211	0.017763173
	December	416.182255	7.18796	43.38769	6.475531	0.106032	17.447027	380.5033	18.70307	2.809935179	0.01937335	0.057914163
	January	634.040952	7.19484	63.567	5.109395	0.1583916	25.889039	581.0958	28.61666	4.268277248	0.02942802	0.08797132
	February	649.813165	7.19441	64.9649	5.020457	0.1618265	26.498907	595.6392	29.34657	4.37320503	0.03015146	0.090133933
	March	653.445979	7.19296	65.12706	5.026323	0.1617011	26.635902	599.0398	29.54368	2.097014642	0.01445806	0.043220516
	April	183.512369	7.56427	8.160252	8.065865	0.0470647	6.737988	179.4209	8.948289	1.271643464	0.00876746	0.026209205
	May	223.121883	7.59461	7.509052	5.69389	0.0539878	7.5329191	219.4106	11.00368	1.612301524	0.01111616	0.033230337
	June	211.647038	7.5064	7.739932	6.25648	0.0530587	7.2991865	207.8834	10.37941	1.534411208	0.01057914	0.031624979
	July	176.106661	7.42848	7.211955	6.64347	0.0447108	6.2855442	172.543	8.608678	1.279796731	0.00882367	0.026377248
	August	237.756152	7.47156	8.430572	6.565066	0.0592256	8.1313707	233.666	11.67475	1.722272564	0.01187436	0.035496895
	September	250.503973	7.57863	8.58898	6.405386	0.0619899	8.4900812	246.3459	12.31639	1.813051206	0.01250025	0.037367888
	October	228.162766	7.65578	8.279421	6.690153	0.0565506	7.8681962	224.0984	11.20752	1.652507497	0.01139336	0.034059002
Junction 4	November	125.383079	7.10708	16.00754	8.170243	0.0340204	6.1443432	112.957	5.540481	0.860001549	0.00592936	0.01772506
	December	416.094187	7.18764	43.37408	6.474214	0.1057679	17.443422	380.436	18.69952	2.809374817	0.01936949	0.057902614
	January	634.030944	7.19461	63.5615	5.109395	0.1581484	25.889039	581.0862	28.6163	4.268137157	0.02942706	0.087968432
	February	649.803157	7.19419	64.9604	5.020457	0.1615833	26.498907	595.6392	29.34657	4.37320503	0.03015146	0.090133933
	March	653.435972	7.19274	65.12206	5.026323	0.1614579	26.635902	599.0398	29.54368	4.396039781	0.0303089	0.090604569
	April	183.502362	7.56085	8.155347	8.065865	0.0468235	6.737988	179.4209	8.948289	1.335720857	0.00920925	0.027529872
	May	217.524571	7.59055	7.316209	5.551447	0.0523957	7.3448515	213.9256	10.72823	1.571955461	0.01083799	0.032398785
	June	207.993224	7.50262	7.601644	6.14863	0.0519036	7.173007	204.3004	10.20038	1.507934105	0.01039659	0.031079273
	July	173.180407	7.4251	7.08748	6.533346	0.0437305	6.1809954	169.6804	8.466169	1.258573021	0.00867735	0.025939817
	August	234.610729	7.46847	8.314106	6.478164	0.0582016	8.0238177	230.5824	11.52019	1.699437813	0.01171693	0.03502626
	September	247.080336	7.57077	8.466908	6.318005	0.0609032	8.3741161	242.9838	12.14836	1.788395279	0.01233025	0.036859717
	October	225.745904	7.65203	8.186879	6.61941	0.0557109	7.7846774	221.7257	11.08911	1.634996185	0.01127263	0.033698086
Junction 5	November	125.301016	7.10637	15.99293	8.165336	0.0337602	6.1407381	112.8801	5.53729	0.859483214	0.00592579	0.017714377
	December	416.047151	7.18731	43.36527	6.473615	0.1055171	17.44222	380.3976	18.69775	2.809234727	0.01936852	0.057899727
	January	634.020937	7.19437	63.55599	5.109395	0.1579052	25.888439	581.0765	28.6163	4.268137157	0.02942706	0.087968432
	February	649.803157	7.19396	64.95539	5.020457	0.161342	26.498907	595.6392	29.34657	4.37320503	0.03015146	0.090133933
	March	653.435972	7.19251	65.11705	5.026323	0.1612166	26.635902	599.0398	29.54368	4.396039781	0.0303089	0.090604569
	April	183.492354	7.55745	8.150442	8.065865	0.0465822	6.737988	179.4209	8.948289	1.335720857	0.00920925	0.027529872
	May	215.45998	7.5866	7.241985	5.498898	0.0516586	7.2751523	211.8988	10.62685	1.557105869	0.01073561	0.032092727
	June	206.622167	7.49922	7.54704	6.10853	0.0513242	7.1261403	202.9652	10.13374	1.49812777	0.01032898	0.030877159
	July	172.077557	7.42154	7.037931	6.492169	0.0432138	6.1425407	168.6141	8.41264	1.250643899	0.00862268	0.025776394
	August	233.422814	7.46535	8.267359	6.445606	0.0576678	7.9835604	229.4201	11.4624	1.690892293	0.01165801	0.034850132
	September	245.794345	7.57182	8.41816	6.285327	0.0603465	8.3308546	241.7254	12.08526	1.779009215	0.01226554	0.036666266
	October	224.825195	7.64818	8.148991	6.592717	0.0552455	7.7534329	220.8323	11.04409	1.628411932	0.01122723	0.033562381
Junction 6	November	125.295011	7.10564	15.98802	8.165336	0.0335189	6.1407381	112.8801	5.53729	0.859483214	0.00592579	0.017714377
	December	416.037143	7.18698	43.36032	6.473615	0.1052759	17.44222	380.3976	18.69775	2.809234727	0.01936852	0.057899727
	January	634.010929	7.19414	63.55099	5.109395	0.1576639	25.888439	581.0765	28.6163	4.268137157	0.02942706	0.087968432
	February	649.79315	7.19373	64.95039	5.020457	0.1611008	26.498907	595.6392	29.34657	4.37320503	0.03015146	0.090133933
	March	653.425964	7.19228	65.11205	5.026323	0.1609754	26.635902	599.0398	29.54368	4.396039781	0.0303089	0.090604569
	April	183.492354	7.55407	8.145487	8.065865	0.0463409	6.737988	179.4209	8.948289	1.335720857	0.00920925	0.027529872
	May	215.449973	7.58274	7.23708	5.498898	0.0514173	7.2751523	211.8988	10.62685	1.557105869	0.01073561	0.032092727
	June	206.61216	7.49608	7.542135	6.10853	0.0510829	7.1261403	202.9652	10.13374	1.49812777	0.01032898	0.030877159
	July	172.06755	7.4179	7.032976	6.492169	0.0429725	6.1425407	168.6141	8.41264	1.250643899	0.00862268	0.025776394
	August	233.412807	7.46224	8.262454	6.445606	0.0574265	7.9835604	229.4201	11.4624	1.690892293	0.01165801	0.034850132
	September	245.794345	7.56866	8.413205	6.285327	0.0601052	8.3308546	241.7254	12.08526	1.779009215	0.01226554	0.036666266
	October	224.825195	7.6443	8.144036	6.592717	0.0550042	7.7534329	220.8323	11.04409	1.628411932	0.01122723	0.033562381
OutletSP04	November	863.248459	7.16116	79.85177	4.475344	0.1855403	34.663926	793.9071	39.96988	5.75855995	0.03970291	0.118686788
	December	2.75933731	6.49727	3.062134	9.088103	0.0443328	1.491923	2.519462	0.479958	0.050906085	0.00035098	0.0010492
	January	2.75933731	6.49727	3.062134	9.088103	0.0443328	1.491923	2.519462	0.479958	0.050906085	0.00035098	0.0010492
	February	2.75933731	6.49727	3.062134	9.088103	0.0443328	1.491923	2.519462	0.479958	0.050906085	0.00035098	0.0010492
	March	2.75933731	6.49727	3.062134	9.088103	0.0443328	1.491923	2.519462	0.479958	0.050906085	0.00035098	0.0010492
	April	2.75933731	7.04478	2.184437	9.088103	0.0443328	1.491923	2.519558	0.479958	0.064734418	0.00044632	0.001334209
	May	778.649851	7.81989	17.7153	4.612999	0.1811688	24.04141	770.2859	38.78939	5.588490087	0.03853035	0.115181564
	June	773.415818	7.73995	17.58477	4.643043	0.1802246	23.874973	765.1371	38.53415	5.551366106	0.0382744	0.11441642
	July	771.003959	7.70736	17.52446	4.656929	0.1797876	23.798064	762.7548	38.41362	5.534275065	0.03815656	0.114064165
	August	761.586701	7.7022	17.29072	4.711033	0.1780891	23.498237	753.4754	37.94923	5.467591989	0.03769681	0.112689794
	September	686.488828	7.59827	15.43057	5.142312	0.1645357	21.11104	679.4804	34.25888	4.935248102	0.03402652	0.101717921
	October	772.535139	7.85408	17.56355	4.64819	0.180065	23.846733	764.263	38.48807	5.545202124	0.0382319	0.114289377
Lake A	November	249.058306	7.25486	15.87751	6.742342	0.0635497	9.5025218	237.6044	11.93566	1.751551478	0.01207623	0.036100348
	December	280.093426	7.23117	20.67515	6.681056	0.0708127	10.945175	264.4052	13.21931	1.949079078	0.0134381	0.04017149
	January	332.938411	7.22167	26.96199	6.449915	0.0832624	13.168338	311.7819	15.53242	2.295382785	0.01582572	0.047308982
	February	376.929527	7.21565	32.1345	6.255283	0.0935728	15.011761	351.253	17.46196	2.583689027	0.01781348	0.053251117
	March	421.082768	7.21021	37.2836	6.063164	0.1038054	16.85939	390.9066	19.40568	2.873115993	0.01980896	0.059216351
	April	321.675579	7.70327	24.51789	6.915069	0.0794057	12.553063	302.9732	15.06341	2.233462786	0.01539881	0.04603278
	May	245.550378	7.60409	11.17581	6.182026	0.0666236	8.7616676	238.6226	12.02251	1.757155098	0.01211487	0.036215842
	June	256.164454	7.49789	9.537978	6.126605	0.0689072	8.8391779	250.9279	12.64998	1.84513193	0.01272143	0.038029088
	July	222.064136	7.43541	8.054947	6.306514	0.0613401	7.7275962	217.9697	10.99765	1.607258267	0.01108139	0.033126393
	August	231.634482	7.44614	7.888631	6.362893	0.063183	7.9679382	227.8351	11.48545	1.67884451	0.01157495	0.034601821
	September	216.751006	7.52509	7.422715	6.40778	0.0599989	7.5028764	213.282	10.75163	1.573916728	0.01085151	0.032439208
	October	220.344769	7.6299	7.502996	6.47984	0.0599913	7.6128329	216.8458	10.92604	1.59969338	0.01102923	0.032970477
Junction 26	May	193.986669	7.39292	11.07767	6.972525	0.0521848	7.3706883	186.7791	9.391414	1.384556404	0.00954595	0.028536397
	June	200.814791	7.31314	8.529871	6.802192	0.0543525	7.2234788	196.1161	9.883815	1.45035691	0.00999962	0.029892578
	July	174.731661	7.26117	7.380773	6.935657	0.048596	6.3714664	170.9196	8.620377	1.26846341	0.00874554	0.026143663
	August	183.409325	7.25507	7.265859	6.964984	0.0503496	6.5931819	179.8243	9.061729	1.33303112	0.0091907	0.027474435
	September	171.412074	7.31117	6.895338	7.004006	0.0477753	6.2188493	168.0762	8.469714	1.248402451	0.00860722	0.025730196
	October	180.936407	7.41925	7.036329	6.976236	0.049506	6.4952426	177.5573	8.944035	1.316696568	0.00907808	0.027137772
Junction 27	May	199.790189	7.43443	12.18142	7.012146	0.0528593	7.6729184	191.5725	9.62113	1.419817182	0.00978906	0.029263139
	June	195.070364	7.30624	8.420712	6.872336	0.0526313	7.0558403	190.4293	9.59667	1.409450485	0.00971758	0.029049476
	July	169.81287	7.25669	7.306199	7.001014	0.0470628	6.2302655	166.0301	8.373645	1.233272677	0.00850291	0.025418364
	August	178.387456	7.2433	7.196639	7.027587	0.0488069	6.4501784	174.8292	8.80968	1.297069889	0.00894277	0.026733256
	September	166.685433	7.28906	6.836179	7.066011	0.0462972	6.0854594	163.3788	8.232554	1.214556587	0.00837387	0.025032616
	October	176.806226	7.39762	6.983226	7.028186	0.0482027	6.3786767	173.4459	8.737007	1.287137473	0.00887429	0.026528544
Junction 28	May	42.5375335	7.16165	6.481575	8.784304	0.014423	2.7057702	38.54023	1.923092	0.316016142	0.0021788	0.00651325
	June	40.4438795	7.13244	5.641286	8.760484	0.0140235	2.5402347	37.23574	1.865025	0.306111744	0.00211052	0.006309115
	July	38.7844952	7.13023	5.473818	8.743487	0.0137334	2.4735999	35.72087	1.790296	0.29511464	0.00203469	0.00608246
	August	39.8248924	7.12205	5.442837	8.75821	0.0139469	2.4980547	36.80827	1.843577	0.303029753	0.00208927	0.006245594
	September	36.8827237	7.09017	5.376671	8.773651	0.0138609	2.4075058	33.90342	1.697098	0.282114242	0.00194506	0.005814515
	October	43.1515525	7.05456	5.457902	8.712604	0.0153838	2.5865606	40.14828	2.011433	0.3270973	0.0022552	0.006741638

Notes: [a] Regulatory criteria is for un-ionized ammonia

Table L: Dissolved Metals Climate Change Conditions. Mineral precipitation was allowed. Effluent pH of 8

Regulation[a]		Al	As	B	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Li	Mg	Mn	Hg	Mo	Ni	P	Pb	K	Na	Sr	Se	Sb	Tl	Ti	U	Zn	Sn
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MDMER			0.1								0.1							0.25		0.08									0.4	
Directive 019 (2025)			0.1								0.1	3						0.25		0.08									0.4	
CVAC (hardness 10mg/L)			0.15		0.038	0.000138	0.00005			0.1	0.0013	0.65	0.44		0.26	0.00091	3.2	0.007		0.00017			21	0.005	0.24	0.0072		0.014	0.017	
CVAA (hardness 10mg/L)			0.34		0.11	0.00124	0.0002			0.37	0.0016	3.4	0.91		0.6	0.0016	29	0.07		0.004			40	0.062	1.1	0.047		0.32	0.017	
CVAC (hardness 40mg/L)					0.165	0.001425046	0.00014				0.0043				0.86			0.024		0.00099									0.055	
CVAA (hardness 40mg/L)					0.47	0.012825099	0.0008				0.0059				1.9			0.22		0.025									0.055	
CVAC (hardness 400mg/L)					1.911	0.068822	0.0076				0.0305				6.52			0.169		0.01858									0.388	
CVAA (hardness 400mg/L)					5.45	0.61939	0.0087				0.0517				14.1			1.52		0.477									0.388	
CCME (long-term)		0.005[b]	0.005	1.5			0.00004[d]				0.002[g]	0.3			0.23[i]	0.000026	0.073	0.025[k]		0.001[m]				0.001		0.0008		0.015	0.02[o]	
CCME (long-term)		0.1[c]					0.00037[e]				0.004[h]				1.2[j]			0.15[l]		0.007[n]									0.312[p]	
CCME (long-term)							0.00007[f]																						0.037[q]	
Station	**Time**	**Effluent**																												
Effluent (pH 8)	n/a	0.398706202	0.03473	0.27582	0.05568	3.98717E-05	0.001822568	288.397	0.00649	0.00378107	0.05632	1.26081	0.03554	46.3083	0.25157	0.001001526	0.0502	0.0502	3.987252382	0.002515822	50.1944	25.0428	0.85245	0.003987164	0.005019921	0.00010015	0.01001	0.16351396	0.14145	2.0925E-05
	n/a	5.81587E-11	0.03473	0.27582	0.00733	3.98708E-05	0.001789743	265.32	0.00649	0.00377995	0.00615	0.01844	0.03554	34.4426	0.25069	0.001001526	0.0502	0.04839	1.05825E-05	4.69867E-05	50.1944	25.0405	0.85243	0.003987085	0.005019921	0.00010015	0.01001	0.163511579	0.12745	2.0925E-05
	n/a	0.154261553	0.03473	0.27582	0.00763	3.98717E-05	0.001813912	274.935	0.00649	0.003773507	0.01768	0.02192	0.03554	43.3601	0.25136	0.001001526	0.0502	0.04979	6.96476E-05	9.94166E-05	50.1944	25.0428	0.85244	0.003987164	0.005019921	0.00010015	0.01001	0.163511579	0.1377	2.0925E-05
Year 21 Historical Conditions																														
Junction 2	November	0.088542618	0.00131	0.07481	0.00422	6.17668E-06	7.33164E-05	8.21118	0.00076	0.000124871	0.00694	0.02174	0.00122	1.2705	0.02604	2.73364E-05	0.00168	0.00385	0.007959328	0.000168992	1.64365	1.10889	0.02959	0.000353867	0.000242802	0.00034261	0.00229	0.0040672	0.02197	5.19617E-07
	December	0.10227892	0.00789	0.11501	0.00493	1.28559E-05	0.000416089	60.6901	0.00189	0.000843073	0.00915	0.02047	0.00797	9.55381	0.07056	0.000219044	0.01123	0.01292	0.000811327	0.00017628	11.2001	5.82239	0.19157	0.001071171	0.00118386	0.00029813	0.00383	0.035440124	0.04492	4.53448E-06
	January	0.101909273	0.00763	0.11356	0.00491	1.26026E-05	0.000402622	58.6221	0.00185	0.000814783	0.00907	0.02049	0.00771	9.22739	0.06885	0.000211482	0.01085	0.01257	0.000859243	0.000175534	10.824	5.63755	0.1852	0.001043377	0.001146979	0.00030059	0.00377	0.034202374	0.04406	4.37613E-06
	February	0.088092027	0.00047	0.0707	0.0042	5.39875E-06	2.96908E-05	1.48521	0.00063	3.3035E-05	0.00675	0.02201	0.00035	0.20874	0.02063	2.73344E-06	0.00046	0.00273	0.008217649	0.000167235	0.42136	0.51056	0.0089	0.000265621	0.000123672	0.0003536	0.00212	3.46165E-05	0.01931	3.53566E-09
	March	0.112110993	0.01291	0.14516	0.00501	1.79117E-05	0.000677373	100.728	0.00275	0.001390725	0.01082	0.02033	0.01312	15.8714	0.10438	0.000365274	0.01851	0.01981	0.000372367	0.000188446	18.488	9.41454	0.31508	0.001616469	0.001900917	0.00026161	0.00498	0.059371551	0.0623	7.59732E-06
	April	0.129058097	0.00047	0.0707	0.0042	5.39875E-06	2.96357E-05	1.48521	0.00063	3.30294E-05	0.00391	0.01847	0.00035	0.20874	0.02062	2.73344E-06	0.00046	0.00272	0.009107835	0.000149008	0.42136	0.51056	0.0089	0.000265629	0.000123672	0.0003536	0.00212	3.46165E-05	0.01911	3.53566E-09
	May	0.088137895	0.00543	0.08888	0.00394	9.55562E-06	0.00028371	40.0507	0.00138	0.000578911	0.00379	0.01647	0.00547	5.21172	0.05098	0.000149271	0.0077	0.00898	0.000257974	0.000168151	7.67539	4.03424	0.13154	0.000768233	0.000823292	0.00025624	0.00292	0.024068526	0.03183	3.08219E-06
	June	0.089211761	0.00727	0.10403	0.00437	1.1705E-05	0.00037843	54.0692	0.00173	0.000778706	0.00414	0.01761	0.00735	7.03168	0.06439	0.000202175	0.01035	0.01156	0.000184443	0.000170801	10.329	5.36052	0.17662	0.00098092	0.001089326	0.00026447	0.00347	0.032721834	0.03872	4.18678E-06
	July	0.099955809	0.00469	0.08908	0.00416	9.14196E-06	0.00024567	34.1469	0.00129	0.000495889	0.00397	0.0179	0.0047	4.44684	0.04716	0.000126727	0.0066	0.00813	0.000451938	0.000168938	6.57164	3.51123	0.11295	0.000701812	0.000720369	0.00028634	0.00289	0.02037099	0.03067	2.60616E-06
	August	0.104011135	0.00395	0.08533	0.00414	8.44901E-06	0.000207865	28.4518	0.00117	0.000415136	0.00395	0.01813	0.00394	3.70821	0.04239	0.000105141	0.00553	0.00717	0.000589586	0.000168561	5.49878	2.98522	0.09479	0.000623879	0.000615619	0.00029527	0.00274	0.016833643	0.02851	2.15352E-06
	September	0.093183443	0.00699	0.10381	0.00443	1.15257E-05	0.000363839	51.8168	0.00169	0.000746999	0.0042	0.01807	0.00705	6.73978	0.06285	0.000193577	0.00993	0.01122	0.000178567	0.000171019	9.90712	5.15936	0.16951	0.000954547	0.001049669	0.00027449	0.00345	0.031305562	0.0382	4.00575E-06
	October	0.096704534	0.00657	0.10232	0.00446	1.11787E-05	0.000342436	48.5625	0.00163	0.000700978	0.00422	0.01833	0.00662	6.31808	0.0603	0.000181221	0.00932	0.0107	0.000186518	0.000170304	9.29562	4.86257	0.15917	0.000912304	0.000990737	0.00028289	0.00338	0.029277556	0.03714	3.74613E-06
Junction 3	November	0.095452591	0.00521	0.0971	0.00403	1.77216E-05	0.000294468	39.9726	0.00139	0.000579527	0.00879	0.02046	0.00618	6.27677	0.05223	0.000137537	0.00734	0.00947	0.001433806	0.000320725	7.54206	4.02298	0.14048	0.000797101	0.000833557	0.0003089	0.00785	0.022463978	0.03874	2.8342E-06
	December	0.119768353	0.0166	0.16577	0.00423	4.70328E-05	0.000929461	132.322	0.00329	0.001889471	0.01314	0.02008	0.02008	20.8294	0.12954	0.000461156	0.02387	0.02579	0.000217953	0.00035916	24.6222	12.4706	0.4553	0.00208944	0.002541618	0.0002287	0.02136	0.076247801	0.08634	9.62513E-06
	January	0.136777516	0.02517	0.21661	0.00346	6.63945E-05	0.001400678	201.568	0.00471	0.002864863	0.01627	0.0201	0.03021	31.7448	0.1874	0.000705816	0.0363	0.03794	0.000129687	0.00038736	37.3889	18.7774	0.68698	0.003050699	0.003813523	0.000164	0.0299	0.116791265	0.12074	1.4758E-05
	February	0.137997081	0.0258	0.22035	0.00331	6.71957E-05	0.001433728	206.582	0.00482	0.002933767	0.01649	0.0201	0.03088	32.5347	0.19162	0.00072401	0.03721	0.03881	0.000126348	0.000388728	38.3038	19.2286	0.70273	0.003119236	0.003903747	0.00015936	0.03015	0.119773767	0.12298	1.51391E-05
	March	0.138264198	0.02596	0.22139	0.00341	6.58664E-05	0.001438562	207.732	0.00485	0.002945532	0.0165	0.02011	0.03085	32.7194	0.19267	0.000729345	0.03744	0.03897	0.000126354	0.000388811	38.4907	19.3188	0.70377	0.003132343	0.003919941	0.00015847	0.02927	0.120580685	0.12288	1.52495E-05
	April	0.099008757	0.00811	0.11619	0.0039	1.72565E-05	0.000431737	60.5498	0.00192	0.000883716	0.00507	0.01846	0.00871	7.84833	0.07195	0.000223357	0.01154	0.01305	0.000201943	0.000309391	11.6392	6.0447	0.20497	0.001106782	0.001233307	0.00029634	0.00643	0.036339874	0.04506	4.62815E-06
	May	0.06122381	0.00976	0.11018	0.00343	1.55902E-05	0.000510258	73.6193	0.00208	0.001060431	0.00435	0.0149	0.01017	9.54214	0.07889	0.000275069	0.01399	0.01468	0.000120739	0.000308438	14.0336	7.15051	0.24204	0.001229328	0.001446265	0.00020033	0.00501	0.044801801	0.04524	5.72242E-06
	June	0.070454195	0.00926	0.11104	0.00404	1.78306E-05	0.0004908	69.8479	0.00202	0.001014382	0.00458	0.0161	0.00996	9.04243	0.07661	0.000258861	0.01326	0.01422	0.000123319	0.000310614	13.3724	6.84566	0.23444	0.001194981	0.001389647	0.00022435	0.00651	0.04223585	0.04571	5.38136E-06
	July	0.078796886	0.00775	0.10323	0.00401	1.58461E-05	0.000411874	58.1171	0.00177	0.00084649	0.00452	0.01655	0.00833	7.52507	0.06676	0.000214792	0.01106	0.01223	0.000173915	0.000311919	11.1528	5.75641	0.19607	0.001032955	0.001171977	0.00024211	0.00587	0.03499263	0.04102	4.45709E-06
	August	0.072758418	0.01039	0.12123	0.00411	1.9351E-05	0.000549525	78.4607	0.00224	0.001137738	0.00487	0.01706	0.01113	10.1602	0.08509	0.000291237	0.01489	0.01584	0.00011001	0.000318839	15.0075	7.66686	0.26242	0.00132913	0.001554875	0.00023396	0.00696	0.047520092	0.05024	6.05682E-06
	September	0.069509841	0.01094	0.12386	0.00407	1.96835E-05	0.000577066	82.6649	0.00233	0.001196839	0.00487	0.01685	0.01167	10.7066	0.08858	0.000307284	0.01568	0.01654	9.57864E-05	0.000317306	15.7961	8.0524	0.27554	0.001385827	0.00163134	0.0002266	0.00696	0.05014555	0.05173	6.39372E-06
	October	0.075823521	0.00999	0.11926	0.00395	1.81271E-05	0.000526862	75.2825	0.00217	0.001090317	0.00483	0.01715	0.01061	9.75773	0.08247	0.000279803	0.0143	0.01529	0.000118016	0.000315545	14.394	7.36523	0.25084	0.001284126	0.001493752	0.00023917	0.00636	0.045606339	0.04871	5.81643E-06
Junction 4	November	0.095247531	0.0052	0.09689	0.00402	1.76837E-05	0.000293996	39.8844	0.00139	0.000578322	0.00923	0.02042	0.00616	6.26316	0.05213	0.000137242	0.00732	0.00945	0.001445453	0.000467422	7.52603	4.01447	0.14017	0.000795443	0.000831767	0.00030823	0.00783	0.022415897	0.03871	2.82815E-06
	December	0.11974407	0.0166	0.16574	0.00423	4.70238E-05	0.000929439	132.293	0.00329	0.001889106	0.01359	0.02008	0.02008	20.825	0.12952	0.000461056	0.02386	0.02579	0.000218402	0.00090648	24.6175	12.4683	0.45521	0.002089045	0.002541131	0.00022866	0.02136	0.076231139	0.08639	9.62323E-06
	January	0.136774817	0.02517	0.2166	0.00346	6.63936E-05	0.001400903	201.564	0.00471	0.002864863	0.01673	0.0201	0.03021	31.7448	0.1874	0.000705816	0.0363	0.03794	0.000129848	0.000534721	37.3885	18.7771	0.68697	0.00305062	0.003813401	0.000164	0.0299	0.116788885	0.1208	1.4758E-05
	February	0.137997081	0.0258	0.22035	0.00331	6.71957E-05	0.001433841	206.578	0.00482	0.002933767	0.01694	0.0201	0.03088	32.5347	0.19162	0.00072401	0.03721	0.03881	0.000126503	0.00053613	38.3038	19.2286	0.70273	0.003119236	0.003903747	0.00015936	0.03015	0.119773767	0.12305	1.51391E-05
	March	0.138264198	0.02596	0.22139	0.00341	6.58664E-05	0.001438674	207.728	0.00485	0.002945812	0.01696	0.02011	0.03085	32.7194	0.19268	0.000729345	0.03744	0.03898	0.000126509	0.000536192	38.4907	19.3188	0.70377	0.003132343	0.003919941	0.00015847	0.02927	0.120580685	0.12293	1.52495E-05
	April	0.099008757	0.00811	0.11619	0.0039	1.72565E-05	0.000431906	60.5458	0.00192	0.000883744	0.00552	0.01846	0.00871	7.84833	0.07195	0.000223357	0.01154	0.01305	0.000204235	0.000456793	11.6392	6.0447	0.20497	0.001106782	0.001233307	0.00029634	0.00643	0.036339874	0.04512	4.62815E-06
	May	0.059691259	0.00951	0.10742	0.00334	1.51999E-05	0.000497646	71.7717	0.00203	0.001033933	0.0047	0.01453	0.00991	9.30322	0.07691	0.000268189	0.01364	0.01431	0.000126351	0.000448111	13.6821	6.97142	0.23599	0.001198613	0.001410103	0.00019532	0.00489	0.043680685	0.04417	5.57913E-06
	June	0.069240025	0.0091	0.10913	0.00397	1.75233E-05	0.000482503	68.6416	0.00198	0.0009696	0.00496	0.01582	0.00979	8.88664	0.07529	0.000254388	0.01303	0.01398	0.000127714	0.000452649	13.1421	6.72773	0.23041	0.001174451	0.001365782	0.00022049	0.0064	0.041507481	0.04499	5.28865E-06
	July	0.07749098	0.00762	0.10152	0.00394	1.55839E-05	0.000405208	57.1512	0.00174	0.000832485	0.00491	0.01627	0.0082	7.40014	0.06565	0.000211241	0.01087	0.01202	0.000180038	0.00045412	10.9679	5.661	0.19282	0.00101582	0.001152544	0.00023809	0.00577	0.03441184	0.0404	4.38313E-06
	August	0.071795177	0.01026	0.11962	0.00406	1.9095E-05	0.00054242	77.4227	0.00221	0.001122697	0.00526	0.01684	0.01098	10.0258	0.08397	0.000287385	0.01469	0.01563	0.0001306	0.000461994	14.8089	7.56547	0.25895	0.001311526	0.001534298	0.00023087	0.00687	0.046891695	0.04964	5.97669E-06
	September	0.068562789	0.01079	0.12217	0.00401	1.94149E-05	0.000569366	81.5347	0.00229	0.001180565	0.00525	0.01662	0.01151	10.5605	0.08738	0.000303091	0.01547	0.01632	9.88032E-05	0.000460378	15.5807	7.94274	0.27178	0.001366877	0.00160918	0.00022349	0.00687	0.049460027	0.05108	6.30647E-06
	October	0.075022169	0.00988	0.11799	0.00391	1.79351E-05	0.000521455	74.485	0.00215	0.001078805	0.00523	0.01697	0.0105	9.65443	0.0816	0.000276834	0.01415	0.01513	0.000121014	0.00045959	14.2419	7.2873	0.24818	0.001270545	0.001477923	0.00023663	0.00629	0.045125521	0.04826	5.75494E-06
Junction 5	November	0.09519087	0.0052	0.09683	0.00402	1.76729E-05	0.000293985	39.8576	0.00139	0.000578014	0.00968	0.02041	0.00616	6.25951	0.0521	0.000137159	0.00732	0.00944	0.001454001	0.000614514	7.52134	4.01194	0.14009	0.00079489	0.000831256	0.00030805	0.00783	0.022402329	0.03875	2.82649E-06
	December	0.119733277	0.0166	0.16572	0.00423	4.70193E-05	0.000929518	132.277	0.00329	0.001888994	0.01404	0.02007	0.02007	20.8233	0.12952	0.000461016	0.02386	0.02579	0.000218823	0.00065382	24.6151	12.4671	0.45517	0.002088808	0.002540888	0.00022864	0.02136	0.07622398	0.08644	9.62228E-06
	January	0.136774817	0.02517	0.2166	0.00346	6.63927E-05	0.001401016	201.56	0.00471	0.002864863	0.01718	0.0201	0.03021	31.7448	0.1874	0.000705816	0.0363	0.03794	0.000130009	0.000682102	37.3881	18.7769	0.68696	0.00305062	0.003813401	0.000164	0.0299	0.116788885	0.12086	1.4758E-05
	February	0.137997081	0.0258	0.22035	0.00331	6.71957E-05	0.001434065	206.578	0.00482	0.002933767	0.0174	0.0201	0.03088	32.5347	0.19162	0.00072401	0.03721	0.03881	0.000126655	0.000683511	38.3038	19.2286	0.70273	0.003119236	0.003903747	0.00015936	0.03015	0.119773767	0.1231	1.51391E-05
	March	0.138264198	0.02596	0.22139	0.00341	6.58664E-05	0.001438899	207.728	0.00485	0.002945812	0.01741	0.02011	0.03085	32.7194	0.19268	0.000729345	0.03744	0.03898	0.000126661	0.000683574	38.4907	19.3188	0.70377	0.003132343	0.003919941	0.00015847	0.02927	0.120580685	0.123	1.52495E-05
	April	0.099008757	0.00811	0.11619	0.0039	1.72565E-05	0.000432063	60.5418	0.00192	0.000883772	0.00598	0.01846	0.00871	7.84833	0.07195	0.000223357	0.01154	0.01305	0.000206545	0.000604174	11.6392	6.0447	0.20497	0.001106782	0.001233307	0.00029634	0.00643	0.036339874	0.04518	4.62815E-06
	May	0.059127345	0.00942	0.1064	0.00331	1.50567E-05	0.000493104	71.0904	0.00201	0.001024186	0.00511	0.01439	0.00982	9.215	0.07619	0.000265661	0.01351	0.01418	0.000129511	0.000591245	13.5526	6.90544	0.23375	0.001187243	0.001396709	0.00019347	0.00484	0.043266515	0.04381	5.52631E-06
	June	0.068789434	0.00904	0.10841	0.00395	1.74088E-05	0.000479513	68.1887	0.00197	0.000990462	0.00538	0.01572	0.00972	8.82831	0.0748	0.000252723	0.01294	0.01389	0.000130266	0.000597068	13.0561	6.68359	0.2289	0.001166713	0.001356772	0.00021904	0.00636	0.041236128	0.04476	5.25399E-06
	July	0.077002614	0.00757	0.10088	0.00392	1.54856E-05	0.000402824	56.7865	0.00173	0.000827275	0.00533	0.01617	0.00814	7.35348	0.06524	0.000209897	0.01081	0.01195	0.000183845	0.000598642	10.8987	5.62514	0.1916	0.001009425	0.001145287	0.00023659	0.00573	0.034195233	0.04021	4.35559E-06
	August	0.071436323	0.0102	0.11903	0.00404	1.89986E-05	0.000539857	77.0299	0.0022	0.001117095	0.00569	0.01675	0.01093	9.9755	0.08355	0.000285941	0.01462	0.01556	0.000114972	0.000607055	14.7342	7.52731	0.25766	0.001304972	0.001526505	0.00022971	0.00683	0.046656047	0.04945	5.94666E-06
	September	0.068206632	0.01073	0.12154	0.00399	1.93149E-05	0.000566578	81.1099	0.00228	0.001174459	0.00568	0.01653	0.01145	10.5058	0.08693	0.000301527	0.01539	0.01624	0.000100209	0.000605376	15.5001	7.90158	0.27037	0.001359849	0.001600779	0.00022235	0.00683	0.049205336	0.05088	6.27382E-06
	October	0.074719976	0.00984	0.11752	0.00389	1.7863E-05	0.00051951	74.1804	0.00214	0.001074492	0.00567	0.0169	0.01046	9.61554	0.08128	0.000275731	0.0141	0.01507	0.000123074	0.000605107	14.1845	7.25787	0.24718	0.001265413	0.001471957	0.00023569	0.00627	0.044942238	0.04813	5.73167E-06

Notes: [a] Regulation criteria applies to total concentrations.

CCME criteria for:

Aluminium depends on pH conditions. Values are provided for reference given [b] pH<6.5 and [c] pH>=6.5

Cadmium depends on hardness concentrations. Values are provided for reference given a hardness of [d] 0--17, [e] >=280 and [f] 40 mg/L.

Copper depends on hardness concentrations. Values are provided for reference given a hardness of [g] 0--82 and [h] >=180 mg/L.

Manganese depends on hardness concentrations and pH conditions. Values are provided for reference given a hardness of [i] 10-24 and [j] >=670 mg/L and pH of [i] 6.7-6.9 and [j] 6.5-6.7.

Nickel depends on hardness concentrations. Values are provided for reference given a hardness of [k] <=60 and [l] >=180 mg/L.

Lead depends on hardness concentrations. Values are provided for reference given a hardness of [m] <=60 and [n] >=180 mg/L.

Zinc depends on hardness and DOC concentrations, and pH conditions. Values are provided for reference given a pH of [o,p,q] 6.5-6.7, [o,p,q] DOC 8 mg/L and hardness [o] 8, [p] 399, and [q] 38 mg/L.

Table L: Dissolved Metals Climate Change Conditions. Mineral precipitation was allowed. Effluent pH of 8

Regulation[a]		Al mg/L	As mg/L	B mg/L	Ba mg/L	Be mg/L	Cd mg/L	Ca mg/L	Cr mg/L	Co mg/L	Cu mg/L	Fe mg/L	Li mg/L	Mg mg/L	Mn mg/L	Hg mg/L	Mo mg/L	Ni mg/L	P mg/L	Pb mg/L	K mg/L	Na mg/L	Sr mg/L	Se mg/L	Sb mg/L	Tl mg/L	Ti mg/L	U mg/L	Zn mg/L	Sn mg/L
MDMER			0.1								0.1							0.25		0.08									0.4	
Directive 019 (2025)			0.1								0.1	3						0.25		0.08									0.4	
CVAC (hardness 10mg/L)			0.15		0.038	0.000138	0.00005			0.1	0.0013	0.65	0.44		0.26	0.00091	3.2	0.007		0.00017			21	0.005	0.24	0.0072		0.014	0.017	
CVAA (hardness 10mg/L)			0.34		0.11	0.00124	0.0002			0.37	0.0016	3.4	0.91		0.6	0.0016	29	0.07		0.004			40	0.062	1.1	0.047		0.32	0.017	
CVAC (hardness 40mg/L)					0.165	0.001425046	0.00014				0.0043				0.86			0.024		0.00099									0.055	
CVAA (hardness 40mg/L)					0.47	0.012825099	0.0008				0.0059				1.9			0.22		0.025									0.055	
CVAC (hardness 400mg/L)					1.911	0.068822	0.0076				0.0305				6.52			0.169		0.01858									0.388	
CVAA (hardness 400mg/L)					5.45	0.61939	0.0087				0.0517				14.1			1.52		0.477									0.388	
CCME (long-term)		0.005[b]	0.005	1.5			0.00004[d]				0.002[g]	0.3			0.23[i]	0.000026	0.073	0.025[k]		0.001[m]				0.001		0.0008		0.015	0.02[o]	
CCME (long-term)		0.1[c]					0.00037[e]				0.004[h]				1.2[j]			0.15[l]		0.007[n]									0.312[p]	
CCME (long-term)							0.00007[f]																						0.037[q]	
Station	**Time**	**Effluent**																												
Junction 6	November	0.09519087	0.0052	0.09683	0.00402	1.76729E-05	0.000294154	39.8552	0.00139	0.000578042	0.01013	0.02041	0.00616	6.25951	0.0521	0.000137159	0.00732	0.00944	0.001461373	0.000761895	7.52134	4.01194	0.14009	0.00079489	0.000831256	0.00030805	0.00783	0.022402329	0.03881	2.82649E-06
	December	0.119733277	0.0166	0.16572	0.00423	4.70193E-05	0.000929686	132.273	0.00329	0.001889022	0.0145	0.02007	0.02007	20.8233	0.12952	0.000461016	0.02386	0.02579	0.000219223	0.000801201	24.6151	12.4671	0.45517	0.002088808	0.002540888	0.00022864	0.02136	0.076223998	0.0865	9.62228E-06
	January	0.136774817	0.02517	0.2166	0.00346	6.63927E-05	0.001401128	201.556	0.00471	0.002864863	0.01764	0.0201	0.03021	31.7448	0.1874	0.000705816	0.0363	0.03795	0.00013017	0.000829484	37.3881	18.7769	0.68696	0.00305062	0.003813401	0.000164	0.0299	0.116788885	0.12092	1.4758E-05
	February	0.137997081	0.0258	0.22035	0.00331	6.71957E-05	0.001434178	206.574	0.00482	0.002934048	0.01785	0.0201	0.03088	32.5347	0.19163	0.00072401	0.03721	0.03881	0.000126807	0.000830893	38.3038	19.2286	0.70273	0.003119236	0.003903747	0.00015936	0.03015	0.119773767	0.12317	1.51391E-05
	March	0.138264198	0.02596	0.22139	0.00341	6.58664E-05	0.001439012	207.724	0.00485	0.002945812	0.01787	0.02011	0.03085	32.7194	0.19268	0.000729345	0.03744	0.03898	0.000126813	0.000830955	38.4907	19.3188	0.70377	0.003132343	0.003919941	0.00015847	0.02927	0.120580685	0.12306	1.52495E-05
	April	0.099008757	0.00811	0.11619	0.0039	1.72565E-05	0.000432232	60.5418	0.00192	0.000883828	0.00643	0.01846	0.00871	7.84833	0.07196	0.000223357	0.01154	0.01305	0.000208875	0.000751556	11.6392	6.0447	0.20497	0.001106782	0.001233307	0.00029634	0.00643	0.036339874	0.04524	4.62815E-06
	May	0.059127345	0.00942	0.1064	0.00331	1.50567E-05	0.000493273	71.0863	0.00201	0.001024214	0.00557	0.01439	0.00982	9.215	0.07619	0.000265661	0.01351	0.01418	0.000131084	0.000738627	13.5526	6.90544	0.23375	0.001187243	0.001396709	0.00019347	0.00484	0.043266515	0.04388	5.52631E-06
	June	0.068789434	0.00904	0.10841	0.00395	1.74088E-05	0.000479682	68.1847	0.00197	0.00099049	0.00584	0.01572	0.00972	8.82831	0.07481	0.000252723	0.01294	0.01389	0.000131632	0.000744449	13.0561	6.68359	0.2289	0.001166713	0.001356772	0.00021904	0.00636	0.041236128	0.04482	5.25399E-06
	July	0.077002614	0.00757	0.10088	0.00392	1.54856E-05	0.000402982	56.7825	0.00173	0.000827331	0.00579	0.01617	0.00814	7.35348	0.06524	0.000209897	0.01081	0.01195	0.000186159	0.000746024	10.8987	5.62514	0.1916	0.001009425	0.001145287	0.00023659	0.00573	0.034195233	0.04027	4.35559E-06
	August	0.071436323	0.0102	0.11903	0.00404	1.89986E-05	0.000540014	77.0259	0.0022	0.001117123	0.00614	0.01675	0.01093	9.9755	0.08356	0.000285941	0.01462	0.01556	0.000116149	0.000754436	14.7342	7.52731	0.25766	0.001304972	0.001526505	0.00022971	0.00683	0.046656047	0.04951	5.94666E-06
	September	0.068206632	0.01073	0.12154	0.00399	1.93149E-05	0.000566746	81.1099	0.00228	0.001174515	0.00614	0.01653	0.01145	10.5058	0.08693	0.000301527	0.01539	0.01624	0.00010121	0.000752758	15.5001	7.90158	0.27037	0.001359849	0.001600779	0.00022235	0.00683	0.049205336	0.05094	6.27382E-06
	October	0.074719976	0.00984	0.11752	0.00389	1.7863E-05	0.000519679	74.1804	0.00214	0.001074548	0.00612	0.0169	0.01046	9.61554	0.08128	0.000275731	0.0141	0.01507	0.000124536	0.000752488	14.1845	7.25787	0.24718	0.001265413	0.001471957	0.00023569	0.00627	0.044942238	0.04819	5.73167E-06
OutletSP04	November	0.154436933	0.03465	0.27538	0.00298	3.98149E-05	0.001810427	274.354	0.00648	0.003765664	0.01806	0.02036	0.03546	43.2702	0.25088	0.00099942	0.0501	0.04969	0.000106327	0.000239793	50.0927	24.9899	0.85069	0.003978794	0.005009572	0.00010069	0.01	0.163168818	0.13749	2.08811E-05
	December	0.237747831	0.00022	0.0707	0.00567	1.30091E-05	7.96419E-05	0.57179	0.00013	4.82332E-05	0.00612	0.02927	0.00035	0.32335	0.01763	2.18001E-06	0.00017	0.00077	0.017277164	0.000149681	0.51668	0.8317	0.017	8.91222E-06	6.74733E-05	0.00035356	0.00212	0.000137981	0.00879	3.53578E-09
	January	0.237747831	0.00022	0.0707	0.00567	1.30091E-05	7.96419E-05	0.57179	0.00013	4.82332E-05	0.00612	0.02927	0.00035	0.32335	0.01763	2.18001E-06	0.00017	0.00077	0.017277164	0.000149681	0.51668	0.8317	0.017	8.91222E-06	6.74733E-05	0.00035356	0.00212	0.000137981	0.00879	3.53578E-09
	February	0.237747831	0.00022	0.0707	0.00567	1.30091E-05	7.96419E-05	0.57179	0.00013	4.82332E-05	0.00612	0.02927	0.00035	0.32335	0.01763	2.18001E-06	0.00017	0.00077	0.017277164	0.000149681	0.51668	0.8317	0.017	8.91222E-06	6.74733E-05	0.00035356	0.00212	0.000137981	0.00879	3.53578E-09
	March	0.237747831	0.00022	0.0707	0.00567	1.30091E-05	7.96419E-05	0.57179	0.00013	4.82332E-05	0.00612	0.02927	0.00035	0.32335	0.01763	2.18001E-06	0.00017	0.00077	0.017277164	0.000149681	0.51668	0.8317	0.017	8.91222E-06	6.74733E-05	0.00035356	0.00212	0.000137981	0.00879	3.53578E-09
	April	0.091070789	0.00022	0.0707	0.00567	1.30091E-05	7.95082E-05	0.57179	0.00013	4.82136E-05	0.00343	0.02073	0.00035	0.32335	0.01762	2.18001E-06	0.00017	0.00077	0.018627001	0.000130318	0.51668	0.8317	0.017	8.91222E-06	6.74733E-05	0.00035356	0.00212	0.000137981	0.00872	3.53578E-09
	May	5.6073E-09	0.03363	0.26927	0.00359	3.90137E-05	0.001735335	256.868	0.00629	0.003660907	0.00649	0.01829	0.03441	33.3294	0.24326	0.000969632	0.0486	0.04687	1.6728E-05	0.000191268	48.6109	24.268	0.82577	0.003860196	0.004861877	0.00010824	0.00976	0.158298746	0.12371	2.02579E-05
	June	5.11786E-09	0.0334	0.26794	0.00477	3.88398E-05	0.001724206	255.145	0.00625	0.003636538	0.00647	0.01836	0.03418	33.1034	0.24174	0.000963153	0.04828	0.04656	1.54906E-05	0.000191206	48.2864	24.1117	0.82035	0.003834377	0.004829732	0.00010988	0.00971	0.157237137	0.12294	2.01213E-05
	July	4.75091E-09	0.0333	0.26732	0.00534	3.87587E-05	0.001719035	254.351	0.00623	0.003625334	0.00647	0.0184	0.03408	32.9989	0.24105	0.000960144	0.04813	0.04642	1.49662E-05	0.000191235	48.1378	24.0381	0.81784	0.003822454	0.004814877	0.00011064	0.00969	0.156746798	0.12259	2.00584E-05
	August	1.51261E-08	0.03289	0.26492	0.00509	3.84451E-05	0.001699025	251.253	0.00615	0.003581919	0.00643	0.01841	0.03367	32.5906	0.23832	0.00094845	0.04754	0.04586	1.61937E-05	0.000190454	47.5553	23.7553	0.80807	0.003775867	0.00475692	0.00011361	0.00959	0.154835426	0.12119	1.98139E-05
	September	0.000132606	0.02967	0.24579	0.0043	3.59388E-05	0.00153951	226.541	0.00556	0.003233755	0.00613	0.01858	0.03038	29.3386	0.21657	0.000855215	0.04288	0.04142	2.84872E-05	0.000184804	42.9221	21.497	0.73012	0.003404676	0.00429484	0.00013725	0.00886	0.139592054	0.11011	1.78623E-05
	October	1.56463E-08	0.03336	0.26771	0.00299	3.88101E-05	0.001722295	254.856	0.00624	0.003632617	0.00647	0.01826	0.03415	33.0645	0.24149	0.00096205	0.04822	0.04651	1.8517E-05	0.000190678	48.2317	24.0841	0.81943	0.003829955	0.004824253	0.00011016	0.0097	0.157056235	0.12281	2.00988E-05
Lake A	November	0.083391843	0.01054	0.12383	0.00411	1.97646E-05	0.000567072	80.8333	0.00222	0.001155244	0.00864	0.01864	0.01121	11.4661	0.08638	0.000296612	0.01511	0.01603	0.000336034	0.000684288	15.2515	7.82802	0.26622	0.001317842	0.001570948	0.00024052	0.00652	0.048376996	0.05108	6.16924E-06
	December	0.089721712	0.01168	0.13159	0.00416	2.41454E-05	0.000633869	90.428	0.00242	0.001290869	0.01007	0.0189	0.01278	13.1847	0.09445	0.000328005	0.01676	0.01782	0.000312216	0.001011177	16.9949	8.69105	0.30039	0.001459497	0.001750056	0.00023747	0.00884	0.053656477	0.05735	6.82808E-06
	January	0.096623589	0.0137	0.14432	0.0041	2.99295E-05	0.000747778	107.028	0.00277	0.001524836	0.01161	0.01909	0.01533	15.9516	0.10837	0.000384892	0.01969	0.02082	0.000259071	0.001125428	20.0359	10.1944	0.35727	0.00169614	0.0020577	0.00022633	0.01166	0.063139549	0.06666	8.02207E-06
	February	0.102262731	0.01539	0.15492	0.00403	3.46302E-05	0.000842464	120.855	0.00305	0.001719422	0.01289	0.01924	0.01743	18.2501	0.11996	0.000432412	0.02213	0.02331	0.000226663	0.001227163	22.5671	11.4457	0.40447	0.001892829	0.002311979	0.00021691	0.01393	0.071049249	0.07436	9.01864E-06
	March	0.107885684	0.01709	0.16557	0.00399	3.90714E-05	0.000937027	134.734	0.00334	0.001914119	0.0141	0.01939	0.01952	20.5564	0.13162	0.000480335	0.02459	0.0258	0.000201661	0.001306541	25.1054	12.6998	0.45139	0.002089755	0.002567431	0.00020743	0.01604	0.079016077	0.08195	1.00239E-05
	April	0.103118046	0.01336	0.14518	0.00398	2.96483E-05	0.000726329	103.786	0.00275	0.001484866	0.01114	0.01836	0.01498	15.1826	0.10685	0.000373739	0.01917	0.02048	7.1729E-05	0.001191566	19.5007	9.92951	0.34832	0.001681216	0.00201184	0.00024493	0.01183	0.061297205	0.06653	7.78548E-06
	May	0.06718673	0.01054	0.1199	0.00389	1.99241E-05	0.00056968	80.3604	0.00215	0.001159306	0.0067	0.01707	0.01121	10.901	0.08516	0.000297856	0.01513	0.01566	0.000101269	0.000753048	15.2964	7.85514	0.26712	0.001284679	0.001564494	0.00021912	0.00627	0.048612644	0.04834	6.19951E-06
	June	0.061609646	0.01108	0.1232	0.00423	1.98484E-05	0.000594872	84.1678	0.00225	0.001215886	0.0063	0.01712	0.01169	11.1698	0.08877	0.000313763	0.01591	0.01632	9.68147E-05	0.000735187	16.0577	8.22804	0.27916	0.001343031	0.001639011	0.00021554	0.00605	0.051188117	0.04954	6.53202E-06
	July	0.064588408	0.00966	0.11455	0.00427	1.81406E-05	0.000521095	73.0622	0.002	0.001059562	0.00604	0.01721	0.01019	9.62308	0.07916	0.000272502	0.01384	0.01439	0.000121938	0.000748738	13.9851	7.20706	0.24364	0.001185979	0.001434089	0.00022527	0.00553	0.044423335	0.04467	5.66781E-06
	August	0.064129722	0.01009	0.11798	0.00434	1.87021E-05	0.000542746	76.3005	0.00209	0.001106815	0.00608	0.0174	0.01065	9.98352	0.08231	0.000284818	0.01447	0.01501	0.000118744	0.000764071	14.6103	7.5149	0.2544	0.001239751	0.001497892	0.0002266	0.00576	0.04643706	0.04642	5.92505E-06
	September	0.065298023	0.00946	0.1139	0.00426	1.81929E-05	0.000510708	71.423	0.00198	0.001038415	0.00606	0.01737	0.01002	9.3268	0.07798	0.000266404	0.01355	0.01415	0.000128653	0.000788769	13.6985	7.06545	0.23914	0.001169713	0.001407789	0.00022971	0.00568	0.043433135	0.04433	5.53972E-06
	October	0.06676312	0.00962	0.11552	0.00416	1.80947E-05	0.000517599	72.6253	0.00202	0.001054829	0.00617	0.01745	0.01016	9.47044	0.07929	0.000271037	0.01379	0.01442	0.000128179	0.000814482	13.9213	7.17258	0.24258	0.001193796	0.001431654	0.000232	0.00564	0.044175785	0.04515	5.63588E-06
Junction 26	May	0.085364193	0.00834	0.11014	0.00399	1.7143E-05	0.000452242	63.3072	0.00183	0.000914246	0.00672	0.01905	0.00889	8.7199	0.0714	0.000232985	0.01192	0.01294	0.000249466	0.000356052	12.0536	6.25368	0.2114	0.001071645	0.001253641	0.00025374	0.00568	0.037946569	0.04283	4.83684E-06
	June	0.076441398	0.00875	0.11166	0.00422	1.66707E-05	0.000470554	65.9764	0.00189	0.000955785	0.00607	0.01937	0.00919	8.75952	0.07379	0.000245382	0.01251	0.01333	0.000225374	0.000343662	12.6194	6.53116	0.21973	0.001106151	0.001305754	0.00024591	0.00518	0.039938871	0.04287	5.09646E-06
	July	0.078613412	0.00766	0.10502	0.00425	1.53694E-05	0.000414189	57.4839	0.0017	0.000836267	0.00593	0.01959	0.00805	7.57514	0.06643	0.000213829	0.01093	0.01185	0.000280672	0.000355307	11.0347	5.75043	0.19257	0.000985737	0.001149073	0.00025319	0.00479	0.034766503	0.03914	4.43572E-06
	August	0.07791459	0.00805	0.10794	0.00431	1.58777E-05	0.000433817	60.4096	0.00178	0.000878842	0.00598	0.01963	0.00847	7.90836	0.06922	0.000224942	0.01149	0.0124	0.000283794	0.000372338	11.5977	6.02792	0.20229	0.001032955	0.001206167	0.00025356	0.00499	0.036587424	0.04065	4.66791E-06
	September	0.078918303	0.00754	0.10468	0.00425	1.54604E-05	0.000407939	56.4779	0.00169	0.000823634	0.00588	0.01936	0.00795	7.379	0.06573	0.000210078	0.01076	0.01171	0.000326092	0.000373209	10.8623	5.66514	0.18996	0.000976577	0.0011335	0.00025617	0.00492	0.034161909	0.03897	4.35713E-06
	October	0.078138537	0.00795	0.10734	0.00417	1.57767E-05	0.0004285	59.6321	0.00176	0.000868282	0.00595	0.01896	0.00837	7.7793	0.06857	0.000222053	0.01135	0.01228	0.000298271	0.000433587	11.4566	5.95619	0.19992	0.001024348	0.001192797	0.00025419	0.005	0.036116127	0.0404	4.60749E-06
Junction 27	May	0.087684605	0.00855	0.11191	0.00401	1.77396E-05	0.000463955	65.0706	0.00188	0.000938139	0.00757	0.01892	0.00916	9.05993	0.07298	0.000238742	0.01223	0.01329	0.000214524	0.000536772	12.3644	6.40679	0.21722	0.001099992	0.001286273	0.00025503	0.00601	0.038903445	0.04417	4.95709E-06
	June	0.077982044	0.0085	0.11046	0.00422	1.63409E-05	0.000457795	64.0887	0.00185	0.000928812	0.00643	0.01939	0.00894	8.50918	0.07223	0.000238261	0.01216	0.01302	0.000239647	0.000422833	12.2624	6.35483	0.21356	0.001081515	0.001271174	0.00024906	0.00509	0.038772529	0.04223	4.94748E-06
	July	0.080070415	0.00745	0.10403	0.00425	1.5081E-05	0.000403229	55.8647	0.00167	0.000813074	0.0063	0.01961	0.00783	7.36247	0.06511	0.000207731	0.01063	0.01158	0.000296561	0.000434395	10.7282	5.59916	0.18727	0.00096497	0.001119461	0.00025609	0.00471	0.033764401	0.03862	4.30775E-06
	August	0.07934731	0.00784	0.1069	0.00431	1.55839E-05	0.000422632	58.7543	0.00175	0.000855173	0.00635	0.01968	0.00824	7.69253	0.06785	0.000218703	0.01119	0.01213	0.000306228	0.000452773	11.2846	5.87343	0.19686	0.001011399	0.001175824	0.00025638	0.00491	0.035561519	0.0401	4.5371E-06
	September	0.080334834	0.00734	0.10372	0.00425	1.51756E-05	0.000397395	54.9189	0.00166	0.000801338	0.00625	0.01946	0.00774	7.17654	0.06446	0.000204221	0.01047	0.01146	0.000363167	0.000452131	10.5675	5.51961	0.18484	0.000956442	0.001104972	0.00025893	0.00484	0.033197892	0.03847	4.23415E-06
	October	0.079325725	0.00778	0.10648	0.00417	1.55343E-05	0.000419338	58.2694	0.00174	0.000848815	0.00631	0.01903	0.00818	7.6026	0.06746	0.000216938	0.0111	0.01206	0.000328415	0.000517503	11.1989	5.82906	0.19546	0.001006582	0.001167849	0.00025652	0.00493	0.035275884	0.03996	4.50006E-06
Junction 28	May	0.121384548	0.00204	0.07878	0.00416	7.83195E-06	0.000113797	13.8393	0.00087	0.00020882	0.00462	0.02003	0.00207	1.93801	0.03081	4.85287E-05	0.00274	0.00478	0.004975625	0.000037555	2.74126	1.65584	0.04942	0.000428405	0.000349768	0.00033488	0.0029	0.007577888	0.02401	9.64673E-07
	June	0.119433782	0.00199	0.07819	0.0042	7.46055E-06	0.000110093	13.2734	0.00086	0.000201745	0.00449	0.02021	0.00197	1.77273	0.03034	4.71146E-05	0.00266	0.00466	0.004382168	3.45216E-05	2.65247	1.61177	0.04746	0.000419357	0.000339893	0.00033392	0.00268	0.007333433	0.02345	9.35079E-07
	July	0.118910341	0.00192	0.07761	0.00421	7.40477E-06	0.000106833	12.744	0.00084	0.000194574	0.00449	0.02022	0.0019	1.6908	0.02983	4.5203E-05	0.00257	0.00455	0.004153581	3.59596E-05	2.55668	1.56478	0.04585	0.000410513	0.000329982	0.00033341	0.00266	0.007022567	0.02314	8.95251E-07
	August	0.1189697	0.00197	0.07805	0.00422	7.4656E-06	0.000109183	13.1003	0.00085	0.000199798	0.00452	0.02028	0.00195	1.7274	0.0302	4.6561E-05	0.00263	0.00463	0.004343451	3.64278E-05	2.62588	1.59882	0.04704	0.000416972	0.00033719	0.00033388	0.00269	0.007244172	0.02336	9.2354E-07
	September	0.119347441	0.00184	0.07728	0.00421	7.34772E-06	0.000102755	12.136	0.00083	0.000186115	0.00453	0.02049	0.00183	1.59764	0.02936	4.29002E-05	0.00245	0.00446	0.006809891	3.66392E-05	2.44384	1.50907	0.04397	0.000403336	0.000319279	0.00033474	0.00266	0.006645529	0.02297	8.46865E-07
	October	0.11791742	0.00211	0.07872	0.00419	7.66919E-06	0.000116753	14.2056	0.00087	0.000215697	0.00484	0.02077	0.00211	1.865	0.03111	5.07152E-05	0.00284	0.00481	0.007239497	4.28987E-05	2.8356	1.70193	0.05069	0.000431611	0.000357573	0.00033186	0.00275	0.007928505	0.0238	1.01079E-06

Notes: [a] Regulation criteria applies to total concentrations.

CCME criteria for:

Aluminium depends on pH conditions. Values are provided for reference given [b] pH<6.5 and [c] pH>=6.5

Cadmium depends on hardness concentrations. Values are provided for reference given a hardness of [d] 0–17, [e] >=280 and [f] 40 mg/L.

Copper depends on hardness concentrations. Values are provided for reference given a hardness of [g] 0–82 and [h] >=180 mg/L.

Manganese depends on hardness concentrations and pH conditions. Values are provided for reference given a hardness of [i] 10-24 and [j] >=670 mg/L and pH of [i] 6.7-6.9 and [j] 6.5-6.7.

Nickel depends on hardness concentrations. Values are provided for reference given a hardness of [k] <=60 and [l] >=180 mg/L.

Lead depends on hardness concentrations. Values are provided for reference given a hardness of [m] <=60 and [n] >=180 mg/L.

Zinc depends on hardness and DOC concentrations, and pH conditions. Values are provided for reference given a pH of [o,p,q] 6.5-6.7, [o,p,q] DOC 8 mg/L and hardness [o] 8, [p] 399, and [q] 38 mg/L.

Table M: General Chemistry. Climate Change Conditions. No precipitation. Effluent pH of 8

Regulation		Hardness mg/L	Ph n/a	Alk mg/L	DOC mg/L	F mg/L	Si mg/L	Sulphate mg/L	Cl mg/L	Nitrate as N mg/L	Nitrite as N mg/L	Total Ammonia as N mg/L
MDMER												0.5[a]
CCME (long-term)			6.5-9							2.935483871	0.05995652	0.019[a]
CCME (long-term)												
CCME (long-term)												
Station	**Time**	**Effluent**										
Effluent (pH 8)	n/a	910.825656	8	126.122	4.465648	1.0015388	34.733625	795.6938	40.05141	5.776351443	0.03982558	0.11905348
	n/a	910.815649	8.39328	125.7696	4.465648	1.0015388	34.733625	795.6938	40.05141	5.776351443	0.03982558	0.11905348
	n/a	910.825656	7.99731	126.0674	4.465648	1.0015388	34.733625	795.6938	40.05141	5.770607733	0.03978598	0.118935099
Year 21 Historical Conditions												
Junction 2	November	26.8643006	7.12905	8.113405	8.958468	0.0303917	2.2919614	21.23598	1.055417	0.182748053	0.00125997	0.003766528
	December	200.830582	7.92646	31.35042	8.158513	0.2215214	8.6883633	173.6285	8.728854	1.28880455	0.00888578	0.026562904
	January	193.971268	7.90798	30.44286	8.208068	0.213998	8.4390085	167.6247	8.426465	1.245572623	0.00858771	0.025671872
	February	4.56804628	6.92864	5.344439	9.198706	0.0059098	1.4918629	1.669811	0.069996	0.001829022	1.261E-05	3.7697E-05
	March	333.513379	8.14677	49.06051	7.480771	0.3672961	13.557692	289.8803	14.58236	0.316408395	0.00218151	0.006521335
	April	4.56805629	7.02357	5.172517	9.198825	0.00591	1.491923	1.669907	0.069996	0.199755039	0.00137723	0.004117051
	May	137.175267	7.6585	22.08982	6.939488	0.151442	6.1311244	118.2499	5.942838	0.883438689	0.00609095	0.018208111
	June	185.297549	7.79773	28.78831	7.251785	0.2043658	7.976951	160.2665	8.057785	1.188485745	0.00819412	0.024495283
	July	116.862529	7.65913	19.69342	7.680072	0.1291872	5.4770337	100.2962	5.037445	0.756670799	0.00521694	0.015595362
	August	97.2963694	7.59412	17.12771	7.872549	0.1077	4.7722908	83.12744	4.173174	0.633363144	0.00436678	0.01305393
	September	177.548545	7.76683	27.85603	7.496093	0.1958735	7.7221885	153.427	7.712857	1.140042452	0.00786013	0.023496843
	October	166.368884	7.70708	26.43261	7.691683	0.1836025	7.3316327	143.6001	7.217975	1.069787068	0.00737574	0.022048844
Junction 3	November	131.943209	7.72388	22.70208	8.187839	0.1456114	6.157562	113.2163	5.552534	0.861850744	0.00594211	0.017763173
	December	437.444893	8.21319	65.03797	6.475531	0.4807546	17.447027	380.5705	18.70342	2.81007527	0.01937432	0.057917051
	January	666.606434	8.27868	96.51592	5.109514	0.7322175	25.889039	581.1822	28.61701	4.268277248	0.02942802	0.08797132
	February	683.219305	8.28109	98.74665	5.020457	0.7504559	26.498907	595.7353	29.34657	4.37334512	0.03015242	0.090136821
	March	687.072291	8.28215	99.13704	5.026323	0.7547306	26.635902	599.1358	29.54403	2.097014642	0.01445806	0.043220516
	April	207.539779	7.79039	32.60137	8.065865	0.2287788	8.9503361	179.4401	8.948289	1.271643464	0.00876746	0.026209205
	May	252.528638	7.86907	37.34661	5.694009	0.2780606	10.28123	219.4395	11.00368	1.612301524	0.01111616	0.033230337
	June	239.563592	7.88962	36.08645	6.25648	0.2637928	9.8906742	207.9123	10.37941	1.534411208	0.01057914	0.031624979
	July	199.256363	7.8419	30.74551	6.64347	0.2195455	8.4342016	172.5622	8.609033	1.279796731	0.00882367	0.026377248
	August	269.130498	7.94083	40.27138	6.565066	0.2963181	11.042513	233.6948	11.67475	1.722272564	0.01187436	0.035496895
	September	283.57569	7.93153	42.14295	6.405506	0.3121818	11.559248	246.3747	12.31639	1.813051206	0.01250025	0.037367888
	October	258.207035	7.86121	38.77243	6.690153	0.2843491	10.64655	224.1272	11.20752	1.652507497	0.01139336	0.034059002
Junction 4	November	131.664993	7.72395	22.65348	8.170363	0.1452998	6.1443432	112.9666	5.540481	0.860001549	0.00592936	0.01772506
	December	437.355824	8.2132	65.02496	6.474214	0.4806596	17.443422	380.4937	18.69952	2.809374817	0.01936949	0.057902614
	January	666.606434	8.27868	96.51492	5.109395	0.7322175	25.889039	581.1822	28.61666	4.268137157	0.02942706	0.087968432
	February	683.219305	8.28109	98.74665	5.020457	0.7504559	26.498907	595.7353	29.34657	4.37334512	0.03015242	0.090136821
	March	687.072291	8.28215	99.13704	5.026323	0.7547306	26.635902	599.1358	29.54403	4.396039781	0.0303089	0.090604569
	April	207.539779	7.79039	32.60137	8.065865	0.2287788	8.9503361	179.4401	8.948289	1.335720857	0.00920925	0.027529872
	May	246.202737	7.85904	36.41188	5.551447	0.2710882	10.024064	213.9448	10.72823	1.571955461	0.01083799	0.032398785
	June	235.438396	7.88278	35.46478	6.14875	0.2592522	9.7200313	204.3292	10.20038	1.507934105	0.01039659	0.031079273
	July	195.953805	7.83527	30.23581	6.533346	0.2158979	8.2948033	169.6996	8.466169	1.258573021	0.00867735	0.025939817
	August	265.573743	7.93563	39.7387	6.478164	0.2924044	10.896505	230.6112	11.52054	1.699577904	0.01171789	0.035029147
	September	279.70369	7.92718	41.56808	6.318125	0.3079261	11.401224	243.0126	12.14836	1.788395279	0.01233025	0.036859717
	October	255.473918	7.85699	38.36222	6.61941	0.2813474	10.53419	221.7545	11.08911	1.634996185	0.01127263	0.033698086
Junction 5	November	131.577926	7.72397	22.63967	8.165336	0.1452105	6.1407381	112.8993	5.53729	0.859483214	0.00592579	0.017714377
	December	437.317794	8.21321	65.01895	6.473615	0.4806216	17.44222	380.4552	18.69775	2.809234727	0.01936852	0.057899727
	January	666.596426	8.27868	96.51392	5.109395	0.7321985	25.888439	581.1726	28.6163	4.268137157	0.02942706	0.087968432
	February	683.219305	8.28109	98.74665	5.020457	0.7504559	26.498907	595.7353	29.34657	4.37334512	0.03015242	0.090136821
	March	687.072291	8.28215	99.13704	5.026323	0.7547306	26.635902	599.1358	29.54403	4.396039781	0.0303089	0.090604569
	April	207.539779	7.79039	32.60137	8.065865	0.2287788	8.9503361	179.4401	8.948289	1.335720857	0.00920925	0.027529872
	May	243.873933	7.85527	36.06703	5.498898	0.2685234	9.9291289	211.918	10.62685	1.557105869	0.01073561	0.032092727
	June	233.8952	7.88019	35.23285	6.10853	0.2575614	9.6563407	202.994	10.13374	1.49812777	0.01032898	0.030877159
	July	194.714845	7.83276	30.04532	6.492169	0.214549	8.2425289	168.6333	8.41264	1.250643899	0.00862268	0.025776394
	August	264.233705	7.93366	39.53885	6.445606	0.2909225	10.841227	229.4489	11.4624	1.690892293	0.01165801	0.034850132
	September	278.260572	7.92413	41.35286	6.285327	0.3063303	11.34234	241.7542	12.08526	1.779149306	0.01226651	0.036669153
	October	254.448123	7.85538	38.20762	6.592717	0.2802074	10.491529	220.8612	11.04445	1.628411932	0.01122723	0.033562381
Junction 6	November	131.577926	7.72397	22.63967	8.165336	0.1452105	6.1407381	112.8993	5.53729	0.859483214	0.00592579	0.017714377
	December	437.317794	8.21321	65.01895	6.473615	0.4806216	17.44222	380.4552	18.69775	2.809234727	0.01936852	0.057899727
	January	666.596426	8.27868	96.51392	5.109395	0.7321985	25.888439	581.1726	28.6163	4.268137157	0.02942706	0.087968432
	February	683.219305	8.28109	98.74665	5.020457	0.7504559	26.498907	595.7353	29.34657	4.37334512	0.03015242	0.090136821
	March	687.072291	8.28215	99.13704	5.026323	0.7547306	26.635902	599.1358	29.54403	4.396039781	0.0303089	0.090604569
	April	207.539779	7.79039	32.60137	8.065865	0.2287788	8.9503361	179.4401	8.948289	1.335720857	0.00920925	0.027529872
	May	243.873933	7.85527	36.06703	5.498898	0.2685234	9.9291289	211.918	10.62685	1.557105869	0.01073561	0.032092727
	June	233.8952	7.88019	35.23285	6.10853	0.2575614	9.6563407	202.994	10.13374	1.49812777	0.01032898	0.030877159
	July	194.714845	7.83276	30.04532	6.492169	0.214549	8.2425289	168.6333	8.41264	1.250643899	0.00862268	0.025776394
	August	264.233705	7.93366	39.53885	6.445606	0.2909225	10.841227	229.4489	11.4624	1.690892293	0.01165801	0.034850132
	September	278.260572	7.92413	41.35286	6.285327	0.3063303	11.34234	241.7542	12.08526	1.779149306	0.01226651	0.036669153
	October	254.448123	7.85538	38.20762	6.592717	0.2802074	10.491529	220.8612	11.04445	1.628411932	0.01122723	0.033562381
OutletSP04	November	908.924184	8.30925	125.8257	4.475344	0.999525	34.663926	794.032	39.96988	5.75855995	0.03970291	0.118686788
	December	2.75923723	6.5344	3.334902	9.088103	0.0443347	1.491923	2.519366	0.479958	0.049507981	0.00034134	0.001020384
	January	2.75923723	6.5344	3.334902	9.088103	0.0443347	1.491923	2.519366	0.479958	0.049507981	0.00034134	0.001020384
	February	2.75923723	6.5344	3.334902	9.088103	0.0443347	1.491923	2.519366	0.479958	0.049507981	0.00034134	0.001020384
	March	2.75923723	6.5344	3.334902	9.088103	0.0443347	1.491923	2.519366	0.479958	0.049507981	0.00034134	0.001020384
	April	2.75923723	7.15521	3.280497	9.088103	0.0443347	1.491923	2.519366	0.479958	0.064734418	0.00044632	0.001334209
	May	881.863221	8.31231	122.1475	4.613118	0.9709894	33.673116	770.3916	38.78939	5.588630178	0.03853132	0.115184451
	June	875.958647	8.33703	121.3052	4.643163	0.9647769	33.457409	765.2332	38.53415	5.551506196	0.03827536	0.114419307
	July	873.226531	8.34752	120.9023	4.657048	0.9619082	33.357667	762.8605	38.41362	5.534415156	0.03815753	0.114067052
	August	862.608306	8.33797	119.4864	4.711153	0.9506991	32.968313	753.5811	37.95277	5.467591989	0.03769681	0.112689794
	September	777.882674	8.28025	108.0825	5.142432	0.8614066	29.8673	679.5765	34.25923	4.935248102	0.03402652	0.101717921
	October	874.957872	8.29095	121.2261	4.64819	0.963732	33.420757	764.3686	38.48807	5.545202124	0.0382319	0.114289377
Lake A	November	273.318758	7.95775	40.64621	6.742342	0.3061783	11.230581	237.6428	11.93566	1.751551478	0.01207623	0.036100348
	December	304.07158	8.02448	45.13574	6.681056	0.3390645	12.38963	264.4436	13.21931	1.949079078	0.0134381	0.04017149
	January	358.287581	8.10198	52.77022	6.449915	0.3979026	14.406099	311.8204	15.53242	2.295382785	0.01582572	0.047308982
	February	403.457574	8.14959	59.11806	6.255283	0.4469564	16.084888	351.301	17.46196	2.583689027	0.01781348	0.053251117
	March	448.831726	8.18632	65.4699	6.063164	0.4962383	17.770887	390.9642	19.40568	2.873115993	0.01980896	0.059216351
	April	348.512001	7.97359	51.78423	6.915069	0.3849836	14.103869	303.0213	15.06341	2.233462786	0.01539881	0.04603278
	May	274.077356	7.89704	40.31738	6.182026	0.3104149	11.184315	238.6611	12.02251	1.757155098	0.01211487	0.036215842
	June	288.136247	7.94682	42.15616	6.126725	0.3256326	11.698647	250.9664	12.64998	1.84513193	0.01272143	0.038029088
	July	250.483076	7.91181	37.08755	6.306514	0.2844821	10.314277	217.9986	10.99765	1.607258267	0.01108139	0.033126393
	August	261.819858	7.92133	38.69841	6.362893	0.2963371	10.746292	227.8639	11.48545	1.67884451	0.01157495	0.034601821
	September	245.187972	7.87175	36.46498	6.40778	0.2781936	10.131016	213.3012	10.75163	1.573916728	0.01085151	0.032439208
	October	249.33118	7.84084	37.0826	6.47984	0.2819553	10.293848	216.8651	10.9264	1.59969338	0.01102923	0.032970477
Junction 26	May	215.20974	7.81593	32.78175	6.972525	0.2430846	9.087331	186.8079	9.391414	1.384570413	0.00954605	0.028536686
	June	225.776929	7.86237	34.02454	6.802192	0.2553195	9.4544534	196.1449	9.883815	1.45035691	0.00999962	0.029892578
	July	196.993629	7.82955	30.14587	6.935657	0.2238962	8.3951461	170.9388	8.620377	1.26846341	0.00874554	0.026143663
	August	207.209543	7.84079	31.58155	6.964984	0.2346873	8.7814958	179.8435	9.062084	1.33303112	0.0091907	0.027474435
	September	193.78214	7.79173	29.7805	7.004006	0.2200395	8.2857905	168.0954	8.469714	1.248402451	0.00860722	0.025730196
	October	204.644555	7.77287	31.25653	6.976355	0.2315525	8.6865607	177.5765	8.944035	1.316696568	0.00907808	0.027137772
Junction 27	May	220.752032	7.82622	33.61248	7.012146	0.2487081	9.3018363	191.6013	9.62113	1.419817182	0.00978906	0.029263139
	June	219.302912	7.85239	33.1801	6.872336	0.2480242	9.2213217	190.4582	9.59667	1.409450485	0.00971758	0.029049476
	July	191.43232	7.81985	29.42475	7.001014	0.2175887	8.1956622	166.0493	8.373645	1.233272677	0.00850291	0.025418364
	August	201.522136	7.83131	30.84141	7.027587	0.2282658	8.5772051	174.8484	8.810034	1.297069889	0.00894277	0.026733256
	September	188.435998	7.78234	29.08561	7.066011	0.213979	8.0935169	163.3981	8.232554	1.214570596	0.00837397	0.025032905
	October	199.969933	7.76501	30.64772	7.028186	0.22629	8.5189222	173.4748	8.737007	1.287137473	0.00887429	0.026528544
Junction 28	May	46.5484537	7.36026	10.7068	8.784304	0.0529979	3.0100432	38.546	1.923092	0.316016142	0.0021788	0.00651325
	June	45.0294776	7.38357	10.44999	8.760484	0.0515294	2.9482753	37.2415	1.865025	0.306111744	0.00211052	0.006309115
	July	43.2819241	7.38352	10.19724	8.743487	0.0497644	2.8807392	35.72567	1.790296	0.29511464	0.00203469	0.00608246
	August	44.5369962	7.38657	10.38177	8.75821	0.0510335	2.9297089	36.81307	1.843577	0.303029753	0.00208927	0.006245594
	September	41.2203265	7.34427	9.939379	8.773651	0.0473877	2.8078555	33.90822	1.697098	0.282114242	0.00194506	0.005814515
	October	48.3394424	7.34176	10.87912	8.712604	0.0552759	3.0659828	40.15404	2.011433	0.3270973	0.0022552	0.006741638

Notes: [a] Regulatory criteria is for un-ionized ammonia

Table N: Dissolved Metals. Climate Change Conditions. No precipitation. Effluent pH of 8

Regulation[a]		Al mg/L	As mg/L	B mg/L	Ba mg/L	Be mg/L	Cd mg/L	Ca mg/L	Cr mg/L	Co mg/L	Cu mg/L	Fe mg/L	Li mg/L	Mg mg/L	Mn mg/L	Hg mg/L	Mo mg/L	Ni mg/L	P mg/L	Pb mg/L	K mg/L	Na mg/L	Sr mg/L	Se mg/L	Sb mg/L	Tl mg/L	Ti mg/L	U mg/L	Zn mg/L	Sn mg/L
MDMER			0.1								0.1							0.25		0.08									0.4	
Directive 019 (2025)			0.1								0.1	3						0.25		0.08									0.4	
CVAC (hardness 10mg/L)			0.15		0.038	0.000138	0.00005			0.1	0.0013	0.65	0.44		0.26	0.00091	3.2	0.007		0.00017			21	0.005	0.24	0.0072		0.014	0.017	
CVAA (hardness 10mg/L)			0.34		0.11	0.00124	0.0002			0.37	0.0016	3.4	0.91		0.6	0.0016	29	0.07		0.004			40	0.062	1.1	0.047		0.32	0.017	
CVAC (hardness 40mg/L)					0.165	0.001425046	0.00014				0.0043				0.86			0.024		0.00099									0.055	
CVAA (hardness 40mg/L)					0.47	0.012825099	0.0008				0.0059				1.9			0.22		0.025									0.055	
CVAC (hardness 400mg/L)					1.911	0.068822	0.0076				0.0305				6.52			0.169		0.01858									0.388	
CVAA (hardness 400mg/L)					5.45	0.61939	0.0087				0.0517				14.1			1.52		0.477									0.388	
CCME (long-term)		0.005[b]	0.005	1.5			0.00004[d]				0.002[g]	0.3			0.23[i]	0.000026	0.073	0.025[k]		0.001[m]				0.001		0.0008		0.015	0.02[o]	
CCME (long-term)		0.1[c]					0.00037[e]				0.004[h]				1.2[j]			0.15[l]		0.007[n]									0.312[p]	
CCME (long-term)							0.00007[f]																						0.037[q]	
Station	**Time**															**Effluent**														
Effluent (pH 8)	n/a	0.39871	0.03473	0.27582	0.05568	3.98717E-05	0.001822568	288.397	0.00649	0.00378107	0.05632	1.26081	0.03554	46.3083	0.25157	0.001001526	0.0502	0.0502	3.98725	0.00252	50.1944	25.0428	0.85245	0.003987164	0.005019921	0.00010015	0.01001	0.16351396	0.14145	2.0925E-05
	n/a	0.39871	0.03473	0.27582	0.05568	3.98717E-05	0.001822568	288.393	0.00649	0.00378107	0.05632	1.26081	0.03554	46.3083	0.25157	0.001001526	0.0502	0.0502	3.98725	0.00252	50.1944	25.0428	0.85244	0.003987164	0.005019921	0.00010015	0.01001	0.163511579	0.14145	2.0925E-05
	n/a	0.39871	0.03473	0.27582	0.05568	3.98717E-05	0.001822568	288.397	0.00649	0.00378107	0.05632	1.26081	0.03554	46.3083	0.25157	0.001001526	0.0502	0.0502	3.98725	0.00252	50.1944	25.0428	0.85245	0.003987164	0.005019921	0.00010015	0.01001	0.16351396	0.14145	2.0925E-05
																Year 21 Historical Conditions														
Junction 2	November	0.13398	0.00131	0.07481	0.00541	6.17668E-06	7.32287E-05	8.54343	0.00076	0.000124997	0.01093	0.20929	0.00122	1.34322	0.02604	2.73364E-05	0.00168	0.00386	0.109	0.00029	1.64365	1.10889	0.02959	0.000353867	0.000242802	0.00034261	0.00229	0.0040672	0.02201	5.19617E-07
	December	0.18725	0.00789	0.11501	0.01534	1.28559E-05	0.000417685	63.6198	0.00189	0.000844642	0.01995	0.41787	0.00797	10.1923	0.07061	0.000219044	0.01123	0.01301	0.87216	0.00073	11.2005	5.82239	0.19157	0.001071171	0.00118386	0.00029813	0.00383	0.035440124	0.04569	4.53448E-06
	January	0.1854	0.00763	0.11356	0.01496	1.26026E-05	0.000404151	61.4476	0.00185	0.000816323	0.01962	0.41001	0.00771	9.84377	0.06889	0.000211482	0.01085	0.01265	0.84208	0.00072	10.824	5.63755	0.1852	0.001043377	0.001146979	0.00030059	0.00377	0.034202374	0.04479	4.37613E-06
	February	0.12906	0.00047	0.0707	0.0042	5.39875E-06	2.93861E-05	1.48517	0.00063	3.29734E-05	0.00992	0.18524	0.00035	0.20874	0.02062	2.73344E-06	0.00046	0.00273	0.01106	0.00024	0.42136	0.51056	0.0089	0.000265621	0.000123672	0.0003536	0.00212	3.46165E-05	0.01926	3.53566E-09
	March	0.22694	0.01291	0.14516	0.02288	1.79117E-05	0.000680251	105.626	0.00275	0.001393441	0.02676	0.57565	0.01312	16.9418	0.10445	0.000365274	0.01851	0.01996	1.45428	0.00107	18.488	9.41454	0.31508	0.001616469	0.001900917	0.00026161	0.00498	0.059371551	0.06361	7.59744E-06
	April	0.12906	0.00047	0.0707	0.0042	5.39875E-06	2.93873E-05	1.48517	0.00063	3.29734E-05	0.00992	0.18524	0.00035	0.20874	0.02062	2.73344E-06	0.00046	0.00273	0.01106	0.00024	0.42136	0.51056	0.0089	0.000265629	0.000123672	0.0003536	0.00212	3.46165E-05	0.01926	3.53566E-09
	May	0.14682	0.00543	0.08888	0.01106	9.55562E-06	0.000288308	43.4606	0.00138	0.000579023	0.01506	0.31208	0.00547	6.95828	0.05111	0.000149273	0.0077	0.00925	0.59439	0.00053	7.67539	4.03424	0.13154	0.000768241	0.000823305	0.00025624	0.00292	0.024088526	0.03397	3.08219E-06
	June	0.16894	0.00727	0.10403	0.01404	1.1705E-05	0.000384771	58.6982	0.00173	0.000778902	0.01812	0.38018	0.00735	9.40458	0.06456	0.000202175	0.01035	0.01193	0.80495	0.00067	10.329	5.36052	0.17662	0.00098092	0.001089338	0.00026447	0.00347	0.032721834	0.0416	4.18678E-06
	July	0.14956	0.00469	0.08908	0.01018	9.14196E-06	0.000249525	37.0325	0.00129	0.000495973	0.01469	0.30034	0.0047	5.92337	0.04727	0.000126727	0.0066	0.00836	0.50466	0.0005	6.57164	3.51123	0.11295	0.000701812	0.000720369	0.00028634	0.00289	0.02037099	0.03251	2.60628E-06
	August	0.14499	0.00395	0.08533	0.0091	8.44901E-06	0.000211001	30.8384	0.00117	0.000415192	0.01378	0.27888	0.00394	4.92784	0.04248	0.000105141	0.00553	0.00736	0.4187	0.00045	5.49878	2.98522	0.09479	0.000623879	0.000615631	0.00029527	0.00274	0.016833881	0.03006	2.15352E-06
	September	0.16946	0.00699	0.10382	0.01368	1.15257E-05	0.000369887	56.2455	0.00169	0.000747167	0.01794	0.37495	0.00705	9.01011	0.06302	0.000193577	0.00993	0.01157	0.77078	0.00065	9.90712	5.15936	0.16951	0.000954547	0.001049669	0.00027449	0.00345	0.031305562	0.04097	4.00575E-06
	October	0.16804	0.00657	0.10232	0.01311	1.11787E-05	0.000348067	52.7066	0.00163	0.000701146	0.01751	0.36437	0.00662	8.44113	0.06046	0.000181221	0.00932	0.01103	0.7216	0.00063	9.29562	4.86257	0.15917	0.000912304	0.000990737	0.00028289	0.00338	0.029277556	0.03974	3.74613E-06
Junction 3	November	0.16194	0.00521	0.0971	0.01181	1.77216E-05	0.00029548	41.8174	0.00139	0.000580479	0.01694	0.3437	0.00618	6.68412	0.05226	0.000137537	0.00734	0.00953	0.54641	0.00056	7.54206	4.02298	0.14048	0.000797101	0.000833557	0.0003089	0.00785	0.022463978	0.03941	2.8342E-06
	December	0.25068	0.0166	0.16577	0.03032	4.70328E-05	0.000934003	138.554	0.00329	0.001892944	0.03444	0.73643	0.02008	22.2138	0.12964	0.000461156	0.02387	0.02601	1.8317	0.00133	24.6225	12.4708	0.4553	0.00208944	0.002541618	0.0002287	0.02136	0.076247801	0.08886	9.62513E-06
	January	0.3162	0.02517	0.21661	0.044	6.63945E-05	0.001407761	211.115	0.00471	0.002870185	0.04719	1.02476	0.03021	33.8642	0.18755	0.000705816	0.0363	0.03828	2.8039	0.00191	37.3889	18.7774	0.68698	0.003050699	0.003813523	0.000164	0.0299	0.116791265	0.12456	1.4758E-05
	February	0.32111	0.0258	0.22035	0.04495	6.71966E-05	0.001441035	216.373	0.00482	0.002939369	0.04806	1.04469	0.03088	34.71	0.19178	0.00072401	0.03721	0.03915	2.87622	0.00195	38.3042	19.2286	0.70273	0.003119236	0.003903747	0.00015936	0.03015	0.119773767	0.12688	1.51391E-05
	March	0.32265	0.02596	0.22139	0.04508	6.58673E-05	0.001445756	217.591	0.00485	0.002951134	0.04812	1.04709	0.03085	34.9068	0.19283	0.000729345	0.03744	0.03932	2.89775	0.00196	38.4907	19.3188	0.70377	0.003132343	0.003919941	0.00015847	0.02927	0.120580685	0.12674	1.52495E-05
	April	0.18832	0.00811	0.11619	0.01598	1.72565E-05	0.000438909	65.748	0.00192	0.000883884	0.0207	0.43235	0.00871	10.5311	0.07214	0.000223357	0.01154	0.01346	0.88867	0.00075	11.6392	6.0447	0.20497	0.001106782	0.001233307	0.00029634	0.00643	0.036339874	0.04848	4.62815E-06
	May	0.17218	0.00976	0.11018	0.01748	1.55902E-05	0.000519015	79.9797	0.00208	0.001060683	0.02052	0.44011	0.01017	12.8265	0.07913	0.000275069	0.01399	0.01518	1.09486	0.00081	14.0336	7.15051	0.24204	0.001229328	0.001446265	0.00020033	0.00501	0.044801801	0.04919	5.72242E-06
	June	0.1751	0.00926	0.11104	0.01712	1.78306E-05	0.000499197	75.8797	0.00202	0.001014606	0.02065	0.43886	0.00996	12.1642	0.07684	0.000258861	0.01326	0.0147	1.02988	0.00079	13.3728	6.84566	0.23444	0.001194981	0.001389647	0.00022435	0.00651	0.04223585	0.04961	5.38136E-06
	July	0.16557	0.00775	0.10324	0.01487	1.58461E-05	0.000418776	63.1188	0.00177	0.000846658	0.01871	0.39346	0.00833	10.1138	0.06694	0.000214792	0.01106	0.01262	0.85457	0.00069	11.1528	5.75641	0.19607	0.001032955	0.001171977	0.00024211	0.00587	0.03499263	0.04427	4.45709E-06
	August	0.1903	0.01039	0.12123	0.019	1.9351E-05	0.000558979	85.2419	0.00224	0.00113799	0.02266	0.48322	0.01113	13.6672	0.08535	0.000291237	0.01489	0.01638	1.15873	0.00088	15.0075	7.66686	0.26243	0.001329134	0.001554875	0.00023396	0.00696	0.047520092	0.0546	6.05682E-06
	September	0.19344	0.01094	0.12386	0.01978	1.96835E-05	0.000587048	89.8148	0.00233	0.001197119	0.0233	0.49842	0.01167	14.4022	0.08885	0.000307304	0.01568	0.01711	1.22272	0.00091	15.7961	8.0524	0.27554	0.001385827	0.001631462	0.00022266	0.00696	0.05014555	0.0563	6.39372E-06
	October	0.18802	0.00999	0.11926	0.01835	1.81271E-05	0.000535878	81.7832	0.00217	0.001090569	0.02208	0.47004	0.01061	13.1118	0.08271	0.000279803	0.0143	0.0158	1.11338	0.00085	14.394	7.36523	0.25084	0.001284126	0.001493752	0.00023917	0.00636	0.045606339	0.05286	5.81643E-06
Junction 4	November	0.16159	0.0052	0.09689	0.01178	1.76837E-05	0.000294851	41.7292	0.00139	0.000579247	0.0169	0.34296	0.00616	6.67002	0.05215	0.000137242	0.00732	0.00951	0.54523	0.00056	7.52603	4.01447	0.14017	0.000795443	0.000831767	0.00030823	0.00783	0.022415897	0.03932	2.82815E-06
	December	0.25063	0.0166	0.16574	0.03032	4.70238E-05	0.000933812	138.526	0.00329	0.00189258	0.03443	0.73632	0.02008	22.2092	0.12962	0.000461056	0.02386	0.026	1.83132	0.00133	24.6175	12.4683	0.45521	0.002089045	0.002541131	0.00022866	0.02136	0.076231139	0.08884	9.62323E-06
	January	0.3162	0.02517	0.21661	0.044	6.63945E-05	0.001407761	211.115	0.00471	0.002870185	0.04719	1.0247	0.03021	33.8642	0.18755	0.000705816	0.0363	0.03828	2.80387	0.00191	37.3885	18.7771	0.68698	0.003050699	0.003813401	0.000164	0.0299	0.116788885	0.12456	1.4758E-05
	February	0.32111	0.0258	0.22035	0.04495	6.71966E-05	0.001441035	216.373	0.00482	0.002939369	0.04806	1.04469	0.03088	34.71	0.19178	0.00072401	0.03721	0.03915	2.87622	0.00195	38.3042	19.2286	0.70273	0.003119236	0.003903747	0.00015936	0.03015	0.119773767	0.12688	1.51391E-05
	March	0.32265	0.02596	0.22139	0.04508	6.58673E-05	0.001445756	217.591	0.00485	0.002951134	0.04812	1.04709	0.03085	34.9068	0.19283	0.000729345	0.03744	0.03932	2.89775	0.00196	38.4907	19.3188	0.70377	0.003132343	0.003919941	0.00015847	0.02927	0.120580685	0.12674	1.52495E-05
	April	0.18832	0.00811	0.11619	0.01598	1.72565E-05	0.000438909	65.748	0.00192	0.000883884	0.0207	0.43235	0.00871	10.5311	0.07214	0.000223357	0.01154	0.01346	0.88867	0.00075	11.6392	6.0447	0.20497	0.001106782	0.001233307	0.00029634	0.00643	0.036339874	0.04848	4.62815E-06
	May	0.16787	0.00951	0.10742	0.01704	1.51999E-05	0.00050602	77.9758	0.00203	0.001034129	0.02001	0.4291	0.00991	12.5054	0.07714	0.000268189	0.01364	0.0148	1.06745	0.00079	13.6821	6.97142	0.23599	0.001198613	0.001410103	0.00019532	0.00489	0.043680685	0.04796	5.57913E-06
	June	0.17208	0.0091	0.10913	0.01682	1.75233E-05	0.000490597	74.5731	0.00198	0.000997128	0.02029	0.4313	0.00979	11.9547	0.07551	0.000254388	0.01303	0.01445	1.01213	0.00078	13.1421	6.72773	0.23041	0.001174451	0.001365782	0.00022049	0.0064	0.041507481	0.04876	5.28865E-06
	July	0.16282	0.00762	0.10152	0.01462	1.55839E-05	0.000411829	62.0728	0.00174	0.000832625	0.0184	0.38693	0.0082	9.94609	0.06583	0.000211241	0.01087	0.01242	0.84041	0.00068	10.9679	5.661	0.19282	0.00101582	0.001152556	0.00023809	0.00577	0.03441184	0.04354	4.38325E-06
	August	0.18779	0.01026	0.11962	0.01875	1.9095E-05	0.000551593	84.1157	0.00221	0.001122921	0.02236	0.47683	0.01098	13.4864	0.08421	0.000287385	0.01469	0.01616	1.1434	0.00086	14.8089	7.56547	0.25895	0.001311526	0.001534298	0.00023087	0.00687	0.046891695	0.05388	5.97669E-06
	September	0.1908	0.01079	0.12217	0.01951	1.94149E-05	0.000579045	88.5884	0.00229	0.00118079	0.02298	0.49161	0.01151	14.2055	0.08764	0.000303112	0.01547	0.01688	1.20603	0.0009	15.5807	7.94274	0.27178	0.001366877	0.00160918	0.00022351	0.00687	0.049462407	0.05553	6.30647E-06
	October	0.18603	0.00988	0.11799	0.01816	1.79351E-05	0.000530212	80.9175	0.00215	0.001079029	0.02185	0.46507	0.0105	12.973	0.08184	0.000276834	0.01415	0.01564	1.10158	0.00084	14.2419	7.2873	0.24818	0.001270545	0.001477923	0.00023663	0.00629	0.045125521	0.0523	5.75494E-06
Junction 5	November	0.16149	0.0052	0.09683	0.01178	1.76729E-05	0.000294671	41.7012	0.00139	0.000578883	0.01689	0.34275	0.00616	6.66589	0.05211	0.000137159	0.00732	0.0095	0.54489	0.00055	7.52134	4.01194	0.1401	0.00079489	0.000831256	0.00030805	0.00783	0.022402329	0.0393	2.82649E-06
	December	0.25061	0.0166	0.16573	0.03031	4.70193E-05	0.000933733	138.514	0.00329	0.001892412	0.03443	0.7362	0.02007	22.2072	0.1296	0.000461016	0.02386	0.026	1.83117	0.00133	24.6151	12.4671	0.45517	0.002088808	0.002540888	0.00022864	0.02136	0.076223998	0.08884	9.6224E-06
	January	0.3162	0.02517	0.2166	0.044	6.63927E-05	0.001407761	211.111	0.00471	0.002870185	0.04719	1.0247	0.03021	33.8642	0.18755	0.000705816	0.0363	0.03828	2.80384	0.00191	37.3881	18.7769	0.68697	0.00305062	0.003813401	0.000164	0.0299	0.116788885	0.12456	1.4758E-05
	February	0.32111	0.0258	0.22035	0.04495	6.71966E-05	0.001441035	216.373	0.00482	0.002939369	0.04806	1.04469	0.03088	34.71	0.19178	0.00072401	0.03721	0.03915	2.87622	0.00195	38.3042	19.2286	0.70273	0.003119236	0.003903747	0.00015936	0.03015	0.119773767	0.12688	1.51391E-05
	March	0.32265	0.02596	0.22139	0.04508	6.58673E-05	0.001445756	217.591	0.00485	0.002951134	0.04812	1.04709	0.03085	34.9068	0.19283	0.000729345	0.03744	0.03932	2.89775	0.00196	38.4907	19.3188	0.70377	0.003132343	0.003919941	0.00015847	0.02927	0.120580685	0.12674	1.52495E-05
	April	0.18832	0.00811	0.11619	0.01598	1.72565E-05	0.000438909	65.748	0.00192	0.000883884	0.0207	0.43235	0.00871	10.5311	0.07214	0.000223357	0.01154	0.01346	0.88867	0.00075	11.6392	6.0447	0.20497	0.001106782	0.001233307	0.00029634	0.00643	0.036339874	0.04848	4.62815E-06
	May	0.16628	0.00942	0.1064	0.01688	1.50567E-05	0.000501232	77.2383	0.00201	0.001024326	0.01982	0.42504	0.00982	12.387	0.07641	0.000265661	0.01351	0.01466	1.05735	0.00078	13.5526	6.90544	0.23375	0.001187243	0.001396709	0.00019347	0.00484	0.043266515	0.0475	5.52631E-06
	June	0.17096	0.00904	0.10841	0.01671	1.74088E-05	0.000487393	74.0842	0.00197	0.000990602	0.02016	0.42848	0.00972	11.8764	0.07502	0.000252723	0.01294	0.01436	1.0055	0.00077	13.0561	6.68382	0.2289	0.001166713	0.001356772	0.00021904	0.00636	0.041236128	0.04844	5.2541E-06
	July	0.1618	0.00757	0.10088	0.01453	1.54856E-05	0.000409232	61.68	0.00173	0.000827387	0.01828	0.3845	0.00814	9.88339	0.06542	0.000209897	0.01081	0.01234	0.83511	0.00068	10.8987	5.62537	0.19161	0.001009425	0.001145287	0.00023659	0.00573	0.034195233	0.04326	4.35559E-06
	August	0.18684	0.0102	0.11903	0.01866	1.89986E-05	0.000548816	83.6909	0.0022	0.001117263	0.02225	0.47443	0.01093	13.4185	0.08379	0.000285941	0.01462	0.01608	1.13767	0.00086	14.7346	7.52731	0.25766	0.001304972	0.001526505	0.00022971	0.00683	0.046656047	0.05361	5.94666E-06
	September	0.18982	0.01073	0.12154	0.01941	1.93149E-05	0.000576043	88.1315	0.00228	0.001174683	0.02286	0.48907	0.01145	14.1321	0.08719	0.000301527	0.01539	0.01679	1.1998	0.00089	15.5001	7.90158	0.27037	0.001359849	0.001600779	0.00022235	0.00683	0.049205336	0.05524	6.27382E-06
	October	0.18528	0.00984	0.11752	0.01809	1.7863E-05	0.000528076	80.5929	0.00214	0.00107466	0.02176	0.46319	0.01046	12.9208	0.08151	0.000275731	0.0141	0.01557	1.09715	0.00084	14.1845	7.25787	0.24718	0.001265413	0.001471957	0.00023569	0.00627	0.044942238	0.05209	5.73167E-06

Notes: [a] Regulation criteria applies to total concentrations.

CCME criteria for:

Aluminium depends on pH conditions. Values are provided for reference given [b] pH<6.5 and [c] pH>=6.5

Cadmium depends on hardness concentrations. Values are provided for reference given a hardness of [d] 0--17, [e] >=280 and [f] 40 mg/L.

Copper depends on hardness concentrations. Values are provided for reference given a hardness of [g] 0–82 and [h] >=180 mg/L.

Manganese depends on hardness concentrations and pH conditions. Values are provided for reference given a hardness of [i] 10-24 and [j] >=670 mg/L and pH of [i] 6.7-6.9 and [j] 6.5-6.7.

Nickel depends on hardness concentrations. Values are provided for reference given a hardness of [k] <=60 and [l] >=180 mg/L.

Lead depends on hardness concentrations. Values are provided for reference given a hardness of [m] <=60 and [n] >=180 mg/L.

Zinc depends on hardness and DOC concentrations, and pH conditions. Values are provided for reference given a pH of [o,p,q] 6.5-6.7, [o,p,q] DOC 8 mg/L and hardness [o] 8, [p] 399, and [q] 38 mg/L.

Table N: Dissolved Metals. Climate Change Conditions. No precipitation. Effluent pH of 8

Regulation[a]		Al mg/L	As mg/L	B mg/L	Ba mg/L	Be mg/L	Cd mg/L	Ca mg/L	Cr mg/L	Co mg/L	Cu mg/L	Fe mg/L	Li mg/L	Mg mg/L	Mn mg/L	Hg mg/L	Mo mg/L	Ni mg/L	P mg/L	Pb mg/L	K mg/L	Na mg/L	Sr mg/L	Se mg/L	Sb mg/L	Tl mg/L	Ti mg/L	U mg/L	Zn mg/L	Sn mg/L
MDMER			0.1								0.1							0.25		0.08									0.4	
Directive 019 (2025)			0.1								0.1	3						0.25		0.08									0.4	
CVAC (hardness 10mg/L)			0.15		0.038	0.000138	0.00005			0.1	0.0013	0.65	0.44		0.26	0.00091	3.2	0.007		0.00017			21	0.005	0.24	0.0072		0.014	0.017	
CVAA (hardness 10mg/L)			0.34		0.11	0.00124	0.0002			0.37	0.0016	3.4	0.91		0.6	0.0016	29	0.07		0.004			40	0.062	1.1	0.047		0.32	0.017	
CVAC (hardness 40mg/L)					0.165	0.001425046	0.00014				0.0043				0.86			0.024		0.00099									0.055	
CVAA (hardness 40mg/L)					0.47	0.012825099	0.0008				0.0059				1.9			0.22		0.025									0.055	
CVAC (hardness 400mg/L)					1.911	0.068822	0.0076				0.0305				6.52			0.169		0.01858									0.388	
CVAA (hardness 400mg/L)					5.45	0.61939	0.0087				0.0517				14.1			1.52		0.477									0.388	
CCME (long-term)		0.005[b]	0.005	1.5			0.00004[d]				0.002[g]	0.3			0.23[i]	0.000026	0.073	0.025[k]		0.001[m]				0.001		0.0008		0.015	0.02[o]	
CCME (long-term)		0.1[c]					0.00037[e]				0.004[h]				1.2[j]			0.15[l]		0.007[n]									0.312[p]	
CCME (long-term)							0.00007[f]																						0.037[q]	
Station	**Time**	**Effluent**																												
Junction 6	November	0.16149	0.0052	0.09683	0.01178	1.76729E-05	0.000294671	41.7012	0.00139	0.000578883	0.01689	0.34275	0.00616	6.66589	0.05211	0.000137159	0.00732	0.0095	0.54489	0.00055	7.52134	4.01194	0.1401	0.00079489	0.000831256	0.00030805	0.00783	0.022402329	0.0393	2.82649E-06
	December	0.25061	0.0166	0.16573	0.03031	4.70193E-05	0.000933733	138.514	0.00329	0.001892412	0.03443	0.7362	0.02007	22.2072	0.1296	0.000461016	0.02386	0.026	1.83117	0.00133	24.6151	12.4671	0.45517	0.002088808	0.002540888	0.00022864	0.02136	0.076223998	0.08884	9.6224E-06
	January	0.3162	0.02517	0.2166	0.044	6.63927E-05	0.001407761	211.111	0.00471	0.002870185	0.04719	1.0247	0.03021	33.8642	0.18755	0.000705816	0.0363	0.03828	2.80384	0.00191	37.3881	18.7769	0.68697	0.00305062	0.003813401	0.000164	0.0299	0.116788885	0.12456	1.4758E-05
	February	0.32111	0.0258	0.22035	0.04495	6.71966E-05	0.001441035	216.373	0.00482	0.002939369	0.04806	1.04469	0.03088	34.71	0.19178	0.00072401	0.03721	0.03915	2.87622	0.00195	38.3042	19.2286	0.70273	0.003119236	0.003903747	0.00015936	0.03015	0.119773767	0.12688	1.51391E-05
	March	0.32265	0.02596	0.22139	0.04508	6.58673E-05	0.001445756	217.591	0.00485	0.002951134	0.04812	1.04709	0.03085	34.9068	0.19283	0.000729345	0.03744	0.03932	2.89775	0.00196	38.4907	19.3188	0.70377	0.003132343	0.003919941	0.00015847	0.02927	0.120580685	0.12674	1.52495E-05
	April	0.18832	0.00811	0.11619	0.01598	1.72565E-05	0.000438909	65.748	0.00192	0.000883884	0.0207	0.43235	0.00871	10.5311	0.07214	0.000223357	0.01154	0.01346	0.88867	0.00075	11.6392	6.0447	0.20497	0.001106782	0.001233307	0.00029634	0.00643	0.036339874	0.04848	4.62815E-06
	May	0.16628	0.00942	0.1064	0.01688	1.50567E-05	0.000501232	77.2383	0.00201	0.001024326	0.01982	0.42504	0.00982	12.387	0.07641	0.000265661	0.01351	0.01466	1.05735	0.00078	13.5526	6.90544	0.23375	0.001187243	0.001396709	0.00019347	0.00484	0.043266515	0.0475	5.52631E-06
	June	0.17096	0.00904	0.10841	0.01671	1.74088E-05	0.000487393	74.0842	0.00197	0.000990602	0.02016	0.42848	0.00972	11.8764	0.07502	0.000252723	0.01294	0.01436	1.0055	0.00077	13.0561	6.68382	0.2289	0.001166713	0.001356772	0.00021904	0.00636	0.041236128	0.04844	5.2541E-06
	July	0.1618	0.00757	0.10088	0.01453	1.54856E-05	0.000409232	61.68	0.00173	0.000827387	0.01828	0.3845	0.00814	9.88339	0.06542	0.000209897	0.01081	0.01234	0.83511	0.00068	10.8987	5.62537	0.19161	0.001009425	0.001145287	0.00023659	0.00573	0.034195233	0.04326	4.35559E-06
	August	0.18684	0.0102	0.11903	0.01866	1.89986E-05	0.000548816	83.6909	0.0022	0.001117263	0.02225	0.47443	0.01093	13.4185	0.08379	0.000285941	0.01462	0.01608	1.13767	0.00086	14.7346	7.52731	0.25766	0.001304972	0.001526505	0.00022971	0.00683	0.046656047	0.05361	5.94666E-06
	September	0.18982	0.01073	0.12154	0.01941	1.93149E-05	0.000576043	88.1315	0.00228	0.001174683	0.02286	0.48907	0.01145	14.1321	0.08719	0.000301527	0.01539	0.01679	1.1998	0.00089	15.5001	7.90158	0.27037	0.001359849	0.001600779	0.00022235	0.00683	0.049205336	0.05524	6.27382E-06
	October	0.18528	0.00984	0.11752	0.01809	1.7863E-05	0.000528076	80.5929	0.00214	0.00107466	0.02176	0.46319	0.01046	12.9208	0.08151	0.000275731	0.0141	0.01557	1.09715	0.00084	14.1845	7.25787	0.24718	0.001265413	0.001471957	0.00023569	0.00627	0.044942238	0.05209	5.73167E-06
OutletSP04	November	0.39838	0.03465	0.27538	0.05557	3.98149E-05	0.001818859	287.792	0.00648	0.003773227	0.05622	1.2588	0.03546	46.2135	0.25108	0.00099944	0.0501	0.05009	3.97889	0.00251	50.0927	24.9899	0.85069	0.003978794	0.005009572	0.00010069	0.01	0.163168818	0.14117	2.08811E-05
	December	0.23934	0.00022	0.0707	0.00567	1.30091E-05	7.93946E-05	0.57175	0.00013	4.81744E-05	0.00808	0.31471	0.00035	0.32335	0.01762	2.18001E-06	0.00017	0.00077	0.02712	0.00044	0.51668	0.8317	0.017	8.91222E-06	6.74733E-05	0.00035356	0.00212	0.000137981	0.0087	3.53578E-09
	January	0.23934	0.00022	0.0707	0.00567	1.30091E-05	7.93946E-05	0.57175	0.00013	4.81744E-05	0.00808	0.31471	0.00035	0.32335	0.01762	2.18001E-06	0.00017	0.00077	0.02712	0.00044	0.51668	0.8317	0.017	8.91222E-06	6.74733E-05	0.00035356	0.00212	0.000137981	0.0087	3.53578E-09
	February	0.23934	0.00022	0.0707	0.00567	1.30091E-05	7.93946E-05	0.57175	0.00013	4.81744E-05	0.00808	0.31471	0.00035	0.32335	0.01762	2.18001E-06	0.00017	0.00077	0.02712	0.00044	0.51668	0.8317	0.017	8.91222E-06	6.74733E-05	0.00035356	0.00212	0.000137981	0.0087	3.53578E-09
	March	0.23934	0.00022	0.0707	0.00567	1.30091E-05	7.93946E-05	0.57175	0.00013	4.81744E-05	0.00808	0.31471	0.00035	0.32335	0.01762	2.18001E-06	0.00017	0.00077	0.02712	0.00044	0.51668	0.8317	0.017	8.91222E-06	6.74733E-05	0.00035356	0.00212	0.000137981	0.0087	3.53578E-09
	April	0.23934	0.00022	0.0707	0.00567	1.30091E-05	7.93946E-05	0.57175	0.00013	4.81744E-05	0.00808	0.31471	0.00035	0.32335	0.01762	2.18001E-06	0.00017	0.00077	0.02712	0.00044	0.51668	0.8317	0.017	8.91222E-06	6.74733E-05	0.00035356	0.00212	0.000137981	0.0087	3.53578E-09
	May	0.39363	0.03363	0.26928	0.05408	3.90146E-05	0.001766923	279.215	0.00629	0.003662027	0.05478	1.23066	0.03441	44.8427	0.24411	0.000969652	0.0486	0.04862	3.86088	0.00245	48.6109	24.2703	0.82579	0.003860275	0.004861999	0.00010824	0.00976	0.158301127	0.13721	2.02579E-05
	June	0.39261	0.0334	0.26795	0.05376	3.88398E-05	0.001755569	277.344	0.00625	0.003637659	0.05447	1.22446	0.03418	44.5438	0.24259	0.000963153	0.04828	0.0483	3.83517	0.00244	48.2864	24.1117	0.82036	0.003834377	0.004829732	0.00010988	0.00971	0.157239518	0.13635	2.01213E-05
	July	0.39212	0.0333	0.26733	0.05361	3.87596E-05	0.001750398	276.478	0.00623	0.003626455	0.05432	1.22167	0.03408	44.4052	0.24189	0.000960164	0.04813	0.04815	3.82309	0.00243	48.1378	24.0404	0.81785	0.003822454	0.004814877	0.00011064	0.00969	0.156749178	0.13595	2.00584E-05
	August	0.39026	0.0329	0.26493	0.05302	3.84451E-05	0.001729939	273.112	0.00615	0.003582759	0.05376	1.21055	0.03367	43.8681	0.23915	0.00094847	0.04754	0.04757	3.77694	0.00241	47.5592	23.7553	0.80808	0.003775946	0.004757041	0.00011361	0.00959	0.154837806	0.1344	1.98139E-05
	September	0.37539	0.02968	0.24579	0.04836	3.59388E-05	0.001567388	246.259	0.00556	0.003234595	0.04926	1.12232	0.03038	39.5758	0.21732	0.000855236	0.04288	0.04296	3.40742	0.00221	42.9221	21.4975	0.73014	0.003404755	0.004294962	0.00013725	0.00886	0.139594435	0.12201	1.78623E-05
	October	0.39242	0.03336	0.26772	0.0537	3.8811E-05	0.001753658	277.027	0.00624	0.003633737	0.05442	1.22345	0.03415	44.4927	0.24233	0.00096205	0.04822	0.04825	3.83083	0.00243	48.2317	24.0864	0.81944	0.003830034	0.004824375	0.00011016	0.0097	0.157058616	0.13621	2.00988E-05
Lake A	November	0.20887	0.01054	0.12383	0.01948	1.97646E-05	0.000572997	86.5244	0.00222	0.001156169	0.02278	0.50782	0.01121	13.9066	0.08655	0.000296612	0.01511	0.01639	1.18267	0.00092	15.2515	7.82802	0.26622	0.001317842	0.001570948	0.00024052	0.00652	0.048376996	0.05385	6.16924E-06
	December	0.21698	0.01168	0.13159	0.02146	2.41454E-05	0.000639366	96.2714	0.00242	0.001292185	0.02486	0.54955	0.01278	15.4643	0.0946	0.000328005	0.01676	0.01816	1.30669	0.001	16.9952	8.69105	0.30039	0.001459497	0.001750056	0.00023747	0.00884	0.053656477	0.06	6.82808E-06
	January	0.23197	0.0137	0.14432	0.0248	2.99295E-05	0.000753275	113.445	0.00277	0.001526713	0.02815	0.61982	0.01533	18.2166	0.10851	0.000384912	0.01969	0.02116	1.5323	0.00113	20.0359	10.1944	0.35728	0.00169614	0.00205677	0.00022633	0.01166	0.063139549	0.06939	8.02207E-06
	February	0.2445	0.01539	0.15492	0.02757	3.46302E-05	0.000847984	127.753	0.00305	0.001721775	0.03086	0.67813	0.01743	20.5098	0.1201	0.000432412	0.02213	0.02364	1.72065	0.00125	22.5675	11.4457	0.40447	0.001892829	0.002311979	0.00021691	0.01393	0.071049249	0.07715	9.01864E-06
	March	0.25716	0.01709	0.16558	0.03033	3.90714E-05	0.000942591	142.125	0.00334	0.00191692	0.03356	0.73632	0.01952	22.8136	0.13175	0.000480333	0.02459	0.02613	1.91074	0.00136	25.1054	12.7	0.4514	0.002089755	0.002567431	0.00020743	0.01604	0.079016077	0.08482	1.0024E-05
	April	0.22862	0.01336	0.14518	0.02435	2.96483E-05	0.000732445	110.371	0.00275	0.001486435	0.0282	0.60944	0.01498	17.7067	0.10702	0.000373739	0.01917	0.02086	1.48683	0.00111	19.5007	9.92951	0.34833	0.001681216	0.00201184	0.00024493	0.01183	0.061297205	0.0696	7.78548E-06
	May	0.21097	0.01054	0.1199	0.01941	1.99241E-05	0.000577448	86.7328	0.00215	0.00115981	0.02208	0.50888	0.01121	13.9644	0.08537	0.000297856	0.01513	0.01612	1.18924	0.00092	15.2964	7.85514	0.26712	0.001284679	0.001564494	0.00021912	0.00627	0.048612644	0.05187	6.19951E-06
	June	0.21474	0.01108	0.1232	0.02016	1.98484E-05	0.000603866	91.1855	0.00225	0.00121625	0.02276	0.52406	0.01169	14.6785	0.08902	0.000313763	0.01591	0.01686	1.25252	0.00096	16.0577	8.22804	0.27917	0.001343031	0.001639011	0.00021554	0.00605	0.051188117	0.05359	6.53214E-06
	July	0.20392	0.00966	0.11455	0.01801	1.81415E-05	0.000529032	79.2623	0.002	0.001059786	0.02077	0.4792	0.01019	12.7647	0.07938	0.000272502	0.01384	0.01486	1.08845	0.00086	13.9855	7.20706	0.24364	0.001185979	0.001434089	0.00022529	0.00553	0.044423335	0.04828	5.66793E-06
	August	0.20719	0.01009	0.11798	0.01869	1.87021E-05	0.000551256	82.8573	0.00209	0.001107011	0.02152	0.49322	0.01065	13.3379	0.08254	0.000284818	0.01447	0.01552	1.13714	0.00089	14.6103	7.51513	0.2544	0.001239751	0.001497892	0.0002266	0.00576	0.04643944	0.05028	5.92505E-06
	September	0.20206	0.00946	0.1139	0.01774	1.81929E-05	0.000518667	77.591	0.00198	0.001038555	0.02063	0.47336	0.01002	12.4923	0.0782	0.000266404	0.01355	0.01463	1.06392	0.00085	13.6985	7.06545	0.23914	0.001169713	0.001407789	0.00022973	0.00568	0.043433135	0.04797	5.53984E-06
	October	0.20235	0.00962	0.11553	0.01797	1.80947E-05	0.000525704	78.9096	0.00202	0.001054941	0.02096	0.47715	0.01016	12.6989	0.07951	0.000271037	0.01379	0.01491	1.08201	0.00086	13.9213	7.17258	0.24258	0.001193796	0.001431654	0.000232	0.00564	0.044175785	0.04885	5.63588E-06
Junction 26	May	0.19262	0.00834	0.11014	0.01614	1.7143E-05	0.000457862	68.1206	0.00183	0.000914751	0.01964	0.43891	0.00889	10.955	0.07155	0.000232985	0.01192	0.01328	0.9298	0.00077	12.054	6.25368	0.2114	0.001071645	0.001253641	0.00025374	0.00568	0.037946569	0.04545	4.83696E-06
	June	0.1959	0.00875	0.11166	0.01665	1.66707E-05	0.000477546	71.4591	0.00189	0.000956065	0.01994	0.44956	0.00919	11.4968	0.07398	0.000245382	0.01251	0.01375	0.97955	0.0008	12.6194	6.53116	0.21973	0.001106151	0.001305754	0.00024591	0.00518	0.039938871	0.04604	5.09646E-06
	July	0.18764	0.00766	0.10502	0.015	1.53694E-05	0.000420338	62.3453	0.0017	0.000836435	0.01841	0.41526	0.00805	10.0333	0.0666	0.000213829	0.01093	0.01222	0.85407	0.00073	11.0347	5.75043	0.19257	0.000985737	0.001149073	0.00025319	0.00479	0.034766503	0.04197	4.43572E-06
	August	0.1906	0.00805	0.10794	0.01561	1.58777E-05	0.000440461	65.5836	0.00178	0.000878982	0.01906	0.42783	0.00847	10.5506	0.0694	0.000224942	0.01149	0.0128	0.89808	0.00075	11.5977	6.02792	0.20229	0.001032955	0.001206167	0.00025356	0.00499	0.036587424	0.04369	4.66791E-06
	September	0.18647	0.00754	0.10468	0.01485	1.54604E-05	0.000414144	61.3314	0.00169	0.000823746	0.01834	0.41181	0.00795	9.86832	0.0659	0.000210078	0.01076	0.01209	0.83899	0.00072	10.8623	5.66537	0.18996	0.000976577	0.0011335	0.00025617	0.00492	0.034161909	0.04184	4.35713E-06
	October	0.18897	0.00795	0.10734	0.01546	1.57767E-05	0.000435087	64.7741	0.00176	0.000868366	0.01894	0.42385	0.00837	10.4186	0.06875	0.000222053	0.01135	0.01268	0.88647	0.00075	11.4566	5.95619	0.19992	0.001024348	0.00119281	0.00025421	0.005	0.036116127	0.04345	4.60761E-06
Junction 27	May	0.19394	0.00855	0.11191	0.0165	1.77396E-05	0.000469205	69.88	0.00188	0.000938699	0.02007	0.44612	0.00916	11.234	0.07313	0.000238742	0.01223	0.01362	0.95244	0.00079	12.3644	6.40679	0.21723	0.001099992	0.001286273	0.00025503	0.00601	0.038903445	0.04665	4.95709E-06
	June	0.19395	0.0085	0.11046	0.01629	1.63409E-05	0.000464427	69.4111	0.00185	0.000929036	0.01964	0.44182	0.00894	11.1664	0.07241	0.000238281	0.01216	0.01343	0.9512	0.00078	12.2624	6.35483	0.21356	0.001081515	0.001271174	0.00024906	0.00509	0.038772529	0.04526	4.94748E-06
	July	0.18594	0.00745	0.10403	0.01469	1.5081E-05	0.000409052	60.5859	0.00167	0.000813214	0.01817	0.40861	0.00783	9.74971	0.06527	0.000207731	0.01063	0.01195	0.82973	0.00071	10.7282	5.59916	0.18727	0.00096497	0.001119461	0.00025609	0.00471	0.033764401	0.04131	4.30775E-06
	August	0.18888	0.00784	0.1069	0.01529	1.55839E-05	0.000428938	63.7841	0.00175	0.000855285	0.0188	0.42103	0.00824	10.2606	0.06803	0.000218703	0.01119	0.01252	0.87321	0.00074	11.2846	5.87343	0.19686	0.001011399	0.001175824	0.00025638	0.00491	0.035561519	0.04301	4.5371E-06
	September	0.18485	0.00734	0.10372	0.01454	1.51756E-05	0.000403285	59.6401	0.00166	0.000801394	0.0181	0.40541	0.00774	9.59561	0.06462	0.000204221	0.01047	0.01183	0.81563	0.00071	10.5675	5.51961	0.18484	0.000956442	0.001104984	0.00025893	0.00484	0.033197892	0.0412	4.23415E-06
	October	0.18757	0.00778	0.10648	0.01519	1.55343E-05	0.000425611	63.2952	0.00174	0.000848871	0.01873	0.41828	0.00818	10.1801	0.06763	0.000216938	0.0111	0.01245	0.86603	0.00073	11.1989	5.82906	0.19546	0.001006582	0.001167849	0.00025652	0.00493	0.035275884	0.04288	4.50006E-06
Junction 28	May	0.14162	0.00204	0.07878	0.00659	7.83195E-06	0.00011482	14.7671	0.00087	0.000208957	0.01191	0.23597	0.00207	2.34942	0.03084	4.85287E-05	0.00274	0.00485	0.19369	0.00035	2.74126	1.65584	0.04942	0.000428405	0.000349768	0.00033488	0.0029	0.007577888	0.02464	9.64685E-07
	June	0.14129	0.00199	0.07819	0.00648	7.46055E-06	0.000111357	14.2842	0.00086	0.000201812	0.01175	0.23359	0.00197	2.27339	0.03038	4.71146E-05	0.00266	0.00475	0.1882	0.00034	2.65247	1.61177	0.04746	0.000419357	0.000339893	0.00033392	0.00268	0.007333671	0.02416	9.35079E-07
	July	0.14084	0.00192	0.07761	0.00637	7.40477E-06	0.000108043	13.7295	0.00084	0.000194622	0.01163	0.23152	0.0019	2.18536	0.02987	4.5203E-05	0.00257	0.00464	0.18067	0.00034	2.55668	1.56478	0.04585	0.000410513	0.000329982	0.00033341	0.00266	0.007022567	0.02383	8.95251E-07
	August	0.1412	0.00197	0.07805	0.00645	7.46569E-06	0.000110468	14.1279	0.00085	0.000199843	0.01172	0.23309	0.00195	2.24858	0.03024	4.6561E-05	0.00263	0.00472	0.18602	0.00034	2.62588	1.59885	0.04704	0.000416972	0.00033719	0.00033388	0.00269	0.007244172	0.02408	9.2354E-07
	September	0.14018	0.00184	0.07728	0.00626	7.34772E-06	0.000103918	13.0779	0.00083	0.000186152	0.01155	0.22913	0.00183	2.07988	0.02939	4.29002E-05	0.00245	0.00454	0.17144	0.00033	2.44384	1.50907	0.04397	0.000403343	0.000319291	0.00033474	0.00266	0.006645529	0.02363	8.46865E-07
	October	0.14217	0.00211	0.07872	0.00666	7.66919E-06	0.000118147	15.331	0.00087	0.000215736	0.01189	0.23745	0.00211	2.44241	0.03115	5.07152E-05	0.00284	0.00491	0.20258	0.00035	2.8356	1.70196	0.05069	0.000431611	0.000357573	0.00033186	0.00275	0.007928505	0.02455	1.01079E-06

Notes: [a] Regulation criteria applies to total concentrations.

CCME criteria for:

Aluminium depends on pH conditions. Values are provided for reference given [b] pH<6.5 and [c] pH>=6.5

Cadmium depends on hardness concentrations. Values are provided for reference given a hardness of [d] 0–17, [e] >=280 and [f] 40 mg/L.

Copper depends on hardness concentrations. Values are provided for reference given a hardness of [g] 0–82 and [h] >=180 mg/L.

Manganese depends on hardness concentrations and pH conditions. Values are provided for reference given a hardness of [i] 10-24 and [j] >=670 mg/L and pH of [i] 6.7-6.9 and [j] 6.5-6.7.

Nickel depends on hardness concentrations. Values are provided for reference given a hardness of [k] <=60 and [l] >=180 mg/L.

Lead depends on hardness concentrations. Values are provided for reference given a hardness of [m] <=60 and [n] >=180 mg/L.

Zinc depends on hardness and DOC concentrations, and pH conditions. Values are provided for reference given a pH of [o,p,q] 6.5-6.7, [o,p,q] DOC 8 mg/L and hardness [o] 8, [p] 399, and [q] 38 mg/L.

Table O: General Chemistry. Historical Conditions. Mineral precipitation was allowed. Effluent pH of 6.5

Regulation		Hardness mg/L	pH n/a	Alk mg/L	DOC mg/L	F mg/L	Si mg/L	Sulphate mg/L	Cl mg/L	Nitrate as N mg/L	Nitrite as N mg/L	Total Ammonia as N mg/L
MDMER												0.5[a]
CCME (long-term)			6.5-9							2.935483871	0.059956522	0.019[a]
CCME (long-term)												
CCME (long-term)												
Station	**Time**	**Effluent**										
Effluent (pH of 6.5)	n/a	1851.81883	6.5	37.6901525	8.912862	1.00254573	52.6246835	1589.21664	40.09395	6.575847907	0.04533778	0.1355315
	n/a	1825.69932	6.00266	6.6513447	8.9127423	0.01334163	52.6246835	1589.12058	40.09395	6.575847907	0.04533778	0.1355315
	n/a	1825.79939	5.3299	7.46470725	8.9127423	0.014374	52.6246835	1589.02452	40.09395	6.363610804	0.043874492	0.131157188
Year 21 Historical Conditions												
Junction 2	November	203.266911	6.36986	5.00635135	9.0889407	0.00223117	7.06244967	174.982896	4.4394035	0.697356483	0.004807988	0.014372864
	December	330.777341	6.19255	5.212207	9.136701	0.00267915	10.6525583	286.11471	7.241726	1.142325927	0.00787587	0.023543906
	January	406.603874	6.10656	5.32537005	9.1346661	0.00317805	12.7825893	352.194384	8.907876	1.407068947	0.009701165	0.029000392
	February	462.228812	6.04969	5.40595055	9.1268856	0.00356676	14.3448123	400.675866	10.130192	1.601374466	0.011040822	0.033005125
	March	693.285172	5.85314	5.7438381	9.0906165	0.00525705	20.831042	602.05605	15.207341	0.839870545	0.005790564	0.01731015
	April	4.56814635	7.57181	5.01215715	9.1988253	0.00591078	1.49192297	1.67009916	0.06999603	0.327727708	0.002259548	0.006754631
	May	176.235044	7.24748	4.42909467	8.0146332	0.00135628	6.14374238	151.697952	3.8488065	0.66128318	0.004559277	0.013629376
	June	453.880368	6.9429	4.66171206	7.9069032	0.00337108	13.9290206	393.711516	9.9504605	1.655869669	0.011416544	0.034128298
	July	389.272495	6.96475	4.79710732	8.2906614	0.00290581	12.170318	337.31469	8.5296245	1.425841074	0.009830591	0.029387295
	August	223.778745	7.10055	4.65191727	8.3421324	0.00170463	7.5281123	193.061388	4.892809	0.832908047	0.00574256	0.01716665
	September	232.996861	7.16869	4.64004041	8.3025117	0.00177115	7.78107225	201.10161	5.095583	0.865787287	0.005969249	0.017844307
	October	259.596394	7.22705	4.81265285	8.5781808	0.0019669	8.56939401	224.223252	5.67909	0.962127521	0.006633475	0.019829927
Junction 3	November	497.780273	6.16194	6.87952265	8.7720948	0.00374155	15.427553	431.856942	10.8955575	1.760096998	0.012135148	0.036276476
	December	485.543853	6.32918	9.0591501	8.581293	0.00370013	15.2503008	421.396008	10.603095	1.765140256	0.01216992	0.03638042
	January	676.842566	6.36846	13.0791661	8.0368974	0.00658238	20.8803121	588.473166	14.765634	2.516445589	0.017349862	0.051865197
	February	983.129	6.19603	13.5839704	7.9735761	0.00720951	29.4881608	855.471936	21.4958165	3.589258611	0.024746469	0.073976407
	March	844.962335	6.23241	12.5367743	8.1179343	0.00621286	25.5501572	734.964666	18.4690955	2.516025318	0.017346965	0.051856535
	April	842.129998	6.84592	5.76611035	8.8293114	0.00620792	24.8026935	733.302828	18.4932015	1.026975412	0.007080575	0.021166475
	May	448.360096	6.99811	4.43546103	7.4320533	0.00332776	13.6790649	389.206302	9.832412	1.640179533	0.011308367	0.033804917
	June	580.86837	6.85631	4.45948503	7.140105	0.00428889	17.3256539	505.045056	12.74782	2.122090841	0.014630948	0.043737349
	July	523.745278	6.89096	4.67654688	7.6821066	0.0038789	15.8096968	455.065038	11.4904085	1.917418626	0.013219817	0.039518953
	August	492.156887	6.94842	4.72874402	7.8065946	0.00365149	14.9252382	427.620696	10.7970065	1.808288129	0.012467407	0.037269719
	September	476.917125	6.99211	4.67115649	7.7399217	0.00353978	14.4920217	414.316386	10.462004	1.75225193	0.01208106	0.036114785
	October	566.036911	6.97987	4.99154656	8.1236799	0.00419162	17.0324367	492.076956	12.420971	2.078102425	0.014327666	0.042830726
Junction 4	November	496.979655	6.16162	6.86811125	8.7579702	0.00373452	15.4029179	431.16531	10.878187	1.75785555	0.012119695	0.036230278
	December	485.433768	6.32886	9.05659755	8.5793778	0.00369139	15.2466956	421.299948	10.600968	1.765420437	0.012171851	0.036386194
	January	676.812542	6.36806	13.0744114	8.036658	0.00641006	20.8797113	588.46356	14.7652795	2.517146041	0.017354692	0.051879633
	February	983.129	6.19583	13.58357	7.9735761	0.00720932	29.4881608	855.471936	21.4958165	3.589818973	0.024750333	0.073987957
	March	844.962335	6.2322	12.5363739	8.1179343	0.00621248	25.5501572	734.964666	18.4690955	3.087874724	0.021289632	0.063642636
	April	842.129998	6.84455	5.7663606	8.8293114	0.00620792	24.8026935	733.302828	18.4932015	3.092637801	0.021322472	0.063740805
	May	439.363151	6.99689	4.34672739	7.2829071	0.00326089	13.4044742	381.396624	9.6349555	1.607258267	0.011081388	0.033126393
	June	569.229385	6.85517	4.37044608	6.9970635	0.00420283	16.9789606	494.929938	12.49258	2.07950333	0.014337324	0.042859599
	July	515.512923	6.88946	4.60326867	7.5613293	0.00381773	15.5609428	447.908568	11.3096135	1.887159079	0.01301119	0.038895288
	August	485.196515	6.94682	4.66216751	7.6961115	0.00359982	14.7143381	421.578522	10.644217	1.782791659	0.012291619	0.036744224
	September	469.747591	6.98844	4.60128169	7.623693	0.00348659	14.2745122	408.091698	10.304606	1.725914917	0.011899477	0.035571966
	October	560.212416	6.97655	4.94042049	8.0400096	0.00414849	16.856987	487.004988	12.2929965	2.056668579	0.014179888	0.042388964
Junction 5	November	496.682426	6.16127	6.86350665	8.7527034	0.0037311	15.3939051	430.905948	10.8714515	1.757435279	0.012116797	0.036221616
	December	485.394738	6.32854	9.05519615	8.5785399	0.00368379	15.2454939	421.261524	10.5999045	1.765980799	0.012175715	0.036397744
	January	676.802534	6.36766	13.070007	8.036658	0.00624611	20.8797113	588.453954	14.7652795	2.517706403	0.017358555	0.051891183
	February	983.129	6.19563	13.5831696	7.9735761	0.00720913	29.4881608	855.471936	21.4958165	3.590519426	0.024755162	0.074002393
	March	844.962335	6.23198	12.5359735	8.1179343	0.00621229	25.5501572	734.964666	18.4690955	3.088575177	0.021294462	0.063657072
	April	842.129998	6.84318	5.7666609	8.8293114	0.00620792	24.8026935	733.302828	18.4932015	3.092637801	0.021322472	0.063740805
	May	436.012565	6.99517	4.31393463	7.227486	0.00323619	13.3023288	378.495612	9.5619285	1.595070393	0.010997358	0.032875195
	June	564.906048	6.85359	4.33756323	6.9439167	0.0041711	16.8497768	491.173992	12.397574	2.063813195	0.014229147	0.042536218
	July	512.422538	6.88784	4.57603146	7.5160827	0.00379493	15.4678103	445.228494	11.241904	1.875951839	0.01293392	0.038664302
	August	482.585499	6.94511	4.63741779	7.654815	0.00358044	14.6350252	419.311506	10.5871425	1.773125414	0.012224974	0.036544998
	September	467.073527	6.98895	4.57534077	7.5802419	0.00346683	14.192796	405.767046	10.2461135	1.716108582	0.011831866	0.035369852
	October	558.020724	6.97707	4.92134643	8.0084088	0.00413234	16.790893	485.093394	12.2447845	2.048543331	0.014123868	0.042221498
Junction 6	November	496.375189	6.16092	6.85890205	8.7473169	0.00372768	15.3842914	430.63698	10.864716	1.757015007	0.012113899	0.036212954
	December	485.346701	6.32822	9.0538448	8.5778217	0.00367714	15.2436914	421.2231	10.598841	1.766401071	0.012178612	0.036406406
	January	676.792527	6.36728	13.0658028	8.0365383	0.00609127	20.8797113	588.453954	14.764925	2.518406856	0.017363385	0.051905619
	February	983.129	6.19543	13.5827692	7.9735761	0.00720913	29.4881608	855.471936	21.4958165	3.591219878	0.024759991	0.07401683
	March	844.962335	6.23176	12.5355731	8.1179343	0.00621191	25.5501572	734.964666	18.4690955	3.089275629	0.021299291	0.063671509
	April	842.129998	6.84182	5.7669612	8.8293114	0.00620792	24.8026935	733.302828	18.4932015	3.092637801	0.021322472	0.063740805
	May	432.697005	6.99345	4.28139712	7.172424	0.00321149	13.2013852	375.613812	9.4889015	1.58288252	0.010913327	0.032623997
	June	560.622742	6.85201	4.30493063	6.8912487	0.00413937	16.7217947	487.446864	12.3036315	2.048123059	0.01412097	0.042212836
	July	509.365178	6.88621	4.54895441	7.4711952	0.00377232	15.3752786	442.567632	11.1749035	1.864744599	0.012856651	0.038433315
	August	479.997502	6.9434	4.6128082	7.6137579	0.00356125	14.5563132	417.063702	10.5304225	1.763599261	0.012159295	0.036348659
	September	464.412473	6.9872	4.54955001	7.5370302	0.00344707	14.1122814	403.452	10.187621	1.706302248	0.011764256	0.035167739
	October	555.829032	6.97552	4.90234245	7.9770474	0.004116	16.7253998	483.191406	12.196927	2.040558172	0.014068813	0.04205692
OutletSP04	November	2.75923723	6.49017	3.05215411	9.0881028	0.04433277	1.49192297	2.51946168	0.47995755	0.050969125	0.000351411	0.001050499
	December	2.75923723	6.49017	3.05215411	9.0881028	0.04433277	1.49192297	2.51946168	0.47995755	0.050969125	0.000351411	0.001050499
	January	2.75923723	6.49017	3.05215411	9.0881028	0.04433277	1.49192297	2.51946168	0.47995755	0.050969125	0.000351411	0.001050499
	February	2.75923723	6.49017	3.05215411	9.0881028	0.04433277	1.49192297	2.51946168	0.47995755	0.050969125	0.000351411	0.001050499
	March	2.75923723	6.49017	3.05215411	9.0881028	0.04433277	1.49192297	2.51946168	0.47995755	0.050969125	0.000351411	0.001050499
	April	2.75923723	7.04409	2.18341624	9.0881028	0.04433277	1.49192297	2.51955774	0.47995755	0.064734418	0.000466317	0.001334209
	May	1747.47894	6.02885	6.41395755	8.9202834	0.01277187	50.4309619	1521.1101	38.39235	6.296507457	0.043411842	0.129774154
	June	1786.88936	6.02461	6.53277625	8.9165727	0.01305874	51.5353334	1555.30746	39.25024	6.437158315	0.044381572	0.132673038
	July	1767.54443	6.03914	6.4733669	8.9183682	0.01291796	50.9933621	1538.49696	38.828385	6.3680937	0.0439054	0.131249582
	August	1692.40643	6.05261	6.2463401	8.9255502	0.01237062	48.8867645	1473.17616	37.197685	6.099820399	0.042055765	0.125720336
	September	1769.75614	6.015	6.48212565	8.9181288	0.01293392	51.0546494	1540.41816	38.878015	6.375938768	0.043959488	0.131411273
	October	1767.04404	6.04373	6.47131485	8.9184879	0.01291397	50.9777399	1538.01666	38.81775	6.366132433	0.043891878	0.13120916
Lake A	November	520.8851	6.36508	4.68172705	7.9848279	0.00385573	15.8379369	452.865264	11.4889905	1.916437992	0.013213056	0.039498741
	December	529.098444	6.3225	5.101096	8.0493462	0.00391747	16.1083217	459.944886	11.6584415	1.951600707	0.013455488	0.040223462
	January	550.855242	6.29833	5.5416361	8.0578449	0.00407611	16.7542408	478.897524	12.1285085	2.036775729	0.014042735	0.041978962
	February	593.768373	6.25563	6.1062001	8.0601192	0.00438806	18.0022167	516.264864	13.0615525	2.199560886	0.015165072	0.045334045
	March	622.640664	6.22968	6.499493	8.0729271	0.00459818	18.8440145	541.413372	13.6890175	2.309111654	0.01592038	0.047591941
	April	685.148893	6.8785	6.31075445	8.2618137	0.00505206	20.5498419	596.023482	15.057742	2.531995634	0.017457074	0.052185691
	May	523.561177	6.79066	4.21805384	7.6111245	0.00386674	15.8673788	455.401248	11.576552	1.922882155	0.013257486	0.039631559
	June	561.43341	6.68077	3.90485596	7.4349261	0.00413975	16.8870298	488.532342	12.420262	2.055127584	0.014169264	0.042357203
	July	546.822129	6.67846	3.87069183	7.5072249	0.00403469	16.4790492	475.756362	12.0966035	2.001332833	0.013798371	0.041248466
	August	488.180858	6.74812	3.81325445	7.544691	0.00360989	14.8260971	424.68126	10.807287	1.792177722	0.012356332	0.036937675
	September	487.460301	6.79314	3.81657777	7.5689901	0.00360495	14.8074706	424.047264	10.790271	1.789375912	0.012337015	0.036879929
	October	521.46054	6.84821	4.0242152	7.7271138	0.00385478	15.7736455	453.633744	11.5265675	1.913356001	0.013191807	0.03943522
Junction 26	May	405.565086	6.80037	4.49940491	8.0373762	0.00301619	12.6125473	352.232808	8.9550245	1.498548041	0.010331875	0.030885821
	June	441.301673	6.75341	4.11376966	7.8153327	0.00327285	13.566705	383.529156	9.756549	1.622668221	0.011187633	0.033444
	July	429.428506	6.76787	4.08743335	7.8732675	0.00318736	13.2350331	373.14507	9.4938645	1.578959986	0.010886283	0.032543152
	August	389.590751	6.77821	4.02977575	7.8817662	0.00289859	12.1090308	338.477016	8.6189585	1.437188404	0.009908826	0.029621169
	September	386.66249	6.77093	4.03806904	7.9090578	0.00287769	12.0285162	335.902608	8.553376	1.426401436	0.009834454	0.029398844
	October	424.59977	6.83038	4.18360443	8.0027829	0.00315506	13.098639	368.96646	9.3804245	1.564250484	0.010784867	0.032239981
Junction 27	May	409.156858	6.81255	4.59873915	8.0783136	0.00304297	12.7225038	355.335546	9.0301785	1.512557091	0.010428462	0.031174555
	June	428.82304	6.76409	4.1356315	7.8549534	0.00318261	13.2218143	372.61674	9.4796845	1.577699172	0.01087759	0.032517166
	July	417.223084	6.77854	4.11013603	7.9113321	0.0030994	12.8979534	362.48241	9.2230265	1.535111661	0.010583967	0.031639416
	August	379.331831	6.78746	4.05242838	7.916958	0.00282468	11.8260281	329.505012	8.3913695	1.400218522	0.009653934	0.028859201
	September	376.171391	6.76814	4.06137732	7.944489	0.00280207	11.739505	326.728878	8.3204695	1.388647047	0.009574153	0.028620707
	October	414.480959	6.8278	4.20051632	8.0316306	0.00308211	12.8192414	360.12894	9.1563805	1.527826955	0.010533742	0.031489274
Junction 28	May	96.0191263	6.98515	4.84011528	8.9476947	0.00174403	4.03347953	81.6913452	2.09718655	0.380962096	0.002626578	0.007851819
	June	89.6872385	7.01467	4.74773299	8.9289018	0.00157592	3.84805568	76.1794224	1.9601014	0.356838513	0.002460256	0.007354619
	July	94.3738563	7.02195	4.72116645	8.9182485	0.00126742	3.97717942	80.2850268	2.0643244	0.373551309	0.002575483	0.007699078
	August	86.8150205	7.01971	4.71824854	8.9171712	0.00167085	3.76243384	73.6981926	1.89831205	0.346639925	0.00238994	0.007144421
	September	85.0226365	6.99486	4.73190218	8.9269866	0.00203473	3.71292339	72.1208874	1.85818265	0.340097698	0.002344834	0.007009583
	October	100.919907	6.94657	4.7425328	8.9242335	0.00182263	4.15689515	86.0034786	2.20779055	0.397646874	0.002741612	0.0081957

Notes: [a] Regulatory criteria is for un-ionized ammonia

Table P: Dissolved Metals. Historical Conditions. Mineral precipitation was allowed. Effluent pH of 6.5

Regulation[a]		Al mg/L	As mg/L	B mg/L	Ba mg/L	Be mg/L	Cd mg/L	Ca mg/L	Cr mg/L	Co mg/L	Cu mg/L	Fe mg/L	Li mg/L	Mg mg/L	Mn mg/L	Hg mg/L	Mo mg/L	Ni mg/L	P mg/L	Pb mg/L	K mg/L	Na mg/L	Sr mg/L	Se mg/L	Sb mg/L	Tl mg/L	Ti mg/L	U mg/L	Zn mg/L	Sn mg/L
MDMER			0.1								0.1							0.25		0.08									0.4	
Directive 019 (2025)			0.1								0.1	3						0.25		0.08									0.4	
CVAC (hardness 10mg/L)			0.15		0.038	0.000138	0.00005			0.1	0.0013	0.65	0.44		0.26	0.00091	3.2	0.007		0.00017			21	0.005	0.24	0.0072		0.014	0.017	
CVAA (hardness 10mg/L)			0.34		0.11	0.00124	0.0002			0.37	0.0016	3.4	0.91		0.6	0.0016	29	0.07		0.004			40	0.062	1.1	0.047		0.32	0.017	
CVAC (hardness 90mg/L)					0.391	0.005583018	0.000250301				0.00853				1.75906			0.04771		0.002782244									0.10958	
CVAA (hardness 90mg/L)					1.12	0.050245928	0.001916511				0.01268				3.79535			0.42916		0.071397133									0.10958	
CVAC (hardness 400mg/L)					1.911	0.068822	0.0076				0.0305				6.52			0.169		0.01858									0.388	
CVAA (hardness 400mg/L)					5.45	0.61939	0.0087				0.0517				14.1			1.52		0.477									0.388	
CCME (long-term)		0.005	0.005	1.5			0.00004				0.002	0.3			0.23	0.000026	0.073	0.025		0.001				0.001		0.0008		0.015	0.02	
CCME (long-term)		0.1					0.00037				0.004				1.2			0.15		0.007									0.312	
CCME (long-term)							0.00007																						0.037	
Station	**Time**																													
Effluent																														
Effluent (pH of 6.5)	n/a	1.12486	0.05261	0.41789	0.05769	0.000224439	0.003397151	604.096	0.00856	0.021284239	0.18885	4.22752	0.08435	83.388	0.70974	0.001002549	0.01783	0.28257	5.63784	0.007097429	70.9751	25.068	1.38387	0.006700388	0.001500205	0.00020003	0.01002	0.025183459	0.39906	1.82434E-05
	n/a	1.12486	0.05261	0.41789	0.00313	0.000224439	0.003395128	593.635	0.00875	0.021279757	0.13225	0.06262	0.08435	83.388	0.70969	0.001002529	0.01783	0.28237	0.55558	0.000731312	70.9751	25.0657	1.38387	0.006700388	0.001500205	0.00020003	0.01002	0.025183459	0.39811	1.82434E-05
	n/a	1.12486	0.05261	0.41789	0.00314	0.000224439	0.003396814	593.675	0.00019	0.021283679	0.18226	0.24195	0.08435	83.388	0.70974	0.001002529	0.01783	0.28254	0.56032	0.002366431	70.9751	25.0657	1.38387	0.006700388	0.001500205	0.00020003	0.01002	0.025183459	0.39894	1.82434E-05
Year 21 Historical Conditions																														
Junction 2	November	0.19905	0.00616	0.10801	0.00405	2.92698E-05	0.000396968	66.0846	0.00012	0.002353092	0.02602	0.03457	0.00952	9.28937	0.09569	0.000111879	0.00235	0.03326	0.0458	0.000439098	8.1215	3.18753	0.15896	0.000965997	0.000272913	0.00033382	0.00297	0.002780178	0.06057	1.99516E-06
	December	0.27238	0.00982	0.13283	0.004	4.46427E-05	0.000632902	107.545	0.00012	0.003840731	0.03835	0.04382	0.0154	15.1133	0.14408	0.000181885	0.00357	0.05287	0.08332	0.000591328	13.0631	4.91015	0.25527	0.001418358	0.000370187	0.00032568	0.00353	0.004540878	0.08729	3.27189E-06
	January	0.31571	0.01199	0.14736	0.00396	5.37667E-05	0.000773116	132.201	0.00012	0.004725567	0.04568	0.04996	0.0189	18.5763	0.17279	0.000223517	0.00429	0.06452	0.10687	0.000683532	16.001	5.93297	0.31252	0.001686507	0.000427621	0.00031966	0.00387	0.005587729	0.10312	4.03127E-06
	February	0.34741	0.01358	0.15797	0.00393	6.04573E-05	0.000875952	150.288	0.00012	0.005374559	0.05106	0.05479	0.02147	21.1167	0.19384	0.000254047	0.00482	0.07306	0.12429	0.000751887	18.1557	6.68313	0.35452	0.001883038	0.000469665	0.00031502	0.00411	0.006355848	0.11472	4.58826E-06
	March	0.47917	0.02019	0.20202	0.00339	8.82446E-05	0.001303103	225.419	0.00015	0.008070521	0.07339	0.07774	0.03212	31.6694	0.28126	0.00038088	0.00703	0.10856	0.19717	0.001041263	27.1061	9.79824	0.52894	0.002699406	0.000644293	0.00029552	0.00511	0.009546149	0.16288	6.90216E-06
	April	0.12906	0.00047	0.0707	0.0042	5.39875E-06	2.94727E-05	1.48521	0.00099	3.3007E-05	0.00382	0.01847	0.00035	0.20874	0.02062	2.73344E-06	0.00046	0.00272	0.00915	0.000145977	0.42136	0.51056	0.0089	0.000265629	0.000123672	0.0003536	0.00212	3.46165E-05	0.01905	3.53566E-09
	May	0.20707	0.00535	0.09467	0.00357	2.54495E-05	0.000344313	57.2955	0.00164	0.00203966	0.01548	0.01965	0.00826	8.05443	0.08324	9.70113E-05	0.00204	0.02884	0.03787	0.000218182	7.04551	2.77027	0.13791	0.00084124	0.000238394	0.0002946	0.0026	0.002410281	0.05254	1.72925E-06
	June	0.35799	0.01329	0.1471	0.00338	5.88072E-05	0.000857247	147.575	0.00284	0.005278765	0.03476	0.0221	0.02106	20.7346	0.18815	0.000249414	0.00469	0.07146	0.12563	0.000315897	17.7991	6.5107	0.34747	0.001820423	0.000447383	0.00026872	0.00379	0.006244212	0.1102	4.51015E-06
	July	0.3278	0.01146	0.13763	0.00359	5.12352E-05	0.000738729	126.566	0.00259	0.004524175	0.03037	0.02184	0.01809	17.7845	0.16448	0.000213969	0.00409	0.06162	0.10434	0.00029209	15.3066	5.65801	0.29893	0.001602335	0.000403452	0.00028855	0.0036	0.005351128	0.09749	3.86152E-06
	August	0.23768	0.00672	0.10628	0.00369	3.13462E-05	0.000432963	72.7536	0.00187	0.002593698	0.01889	0.02057	0.01046	10.2266	0.10192	0.000123126	0.00251	0.03622	0.05207	0.000234447	8.89682	3.428	0.17401	0.001018347	0.000278709	0.00030347	0.00288	0.003065812	0.06309	2.20409E-06
	September	0.24219	0.00698	0.10774	0.00367	3.24339E-05	0.000449892	75.7514	0.00191	0.002701256	0.01946	0.02012	0.01088	10.6473	0.10533	0.000128183	0.0026	0.03763	0.05506	0.000234944	9.25261	3.55031	0.18094	0.001049852	0.000285174	0.00030124	0.00292	0.003193158	0.06493	2.29644E-06
	October	0.26059	0.00776	0.11493	0.00378	3.57811E-05	0.000499691	84.4003	0.00205	0.003011075	0.02127	0.01979	0.01211	11.8623	0.11596	0.000142794	0.00287	0.04177	0.06279	0.000238839	10.2907	3.92274	0.20119	0.001151395	0.000308929	0.00030976	0.00309	0.003559722	0.07102	2.56164E-06
Junction 3	November	0.36314	0.01458	0.16295	0.00366	7.42261E-05	0.000961972	161.795	0.00029	0.005765859	0.05399	0.04213	0.02424	22.7728	0.20572	0.000270315	0.00536	0.07803	0.09676	0.000886567	19.833	7.35857	0.40032	0.002029272	0.000561362	0.00030416	0.01049	0.007328434	0.12558	4.89513E-06
	December	0.35246	0.01421	0.16037	0.00376	8.63989E-05	0.00096875	157.739	0.00024	0.005588835	0.05149	0.03699	0.02529	22.2607	0.19947	0.000258982	0.00552	0.07551	0.03792	0.000844692	19.7935	7.48731	0.4182	0.002023429	0.000648153	0.00030572	0.01936	0.007842577	0.12848	4.70139E-06
	January	0.45342	0.01965	0.19502	0.00343	0.000132975	0.001372912	219.812	0.00021	0.007761291	0.06778	0.03559	0.03692	31.0764	0.26867	0.000355987	0.00784	0.10373	0.00898	0.001001667	27.9514	10.5666	0.60953	0.002759178	0.000956961	0.00028356	0.03562	0.011669129	0.17745	6.49403E-06
	February	0.62786	0.02842	0.25336	0.00289	0.000170547	0.001940828	319.398	0.00025	0.011333406	0.09716	0.04511	0.05113	45.0688	0.38447	0.000523881	0.01077	0.15077	0.09325	0.001315865	39.8412	14.7121	0.84223	0.003843299	0.00119354	0.00025756	0.03743	0.015935321	0.2416	9.55794E-06
	March	0.55099	0.02447	0.22747	0.00309	0.000148494	0.001673732	274.502	0.00016	0.009735156	0.08421	0.04264	0.04411	38.7397	0.33294	0.000449883	0.00934	0.12981	0.07279	0.001197119	34.3162	12.734	0.72711	0.003341508	0.001051312	0.00027077	0.03327	0.013754263	0.2107	8.20262E-06
	April	0.56829	0.02448	0.22981	0.00309	0.000116852	0.001602574	274.037	0.00479	0.009796498	0.06246	0.02348	0.04031	38.3338	0.33668	0.000459833	0.00868	0.13104	0.20343	0.000587536	33.2641	12.0485	0.6634	0.003257179	0.000831158	0.00027984	0.01265	0.012151614	0.19744	8.35303E-06
	May	0.34625	0.01312	0.14262	0.00311	5.94056E-05	0.000849591	145.812	0.00295	0.005214062	0.03474	0.02154	0.02099	20.4634	0.18503	0.000245984	0.00465	0.07047	0.1201	0.000451841	17.6279	6.44863	0.34613	0.00179334	0.000447821	0.00025172	0.00463	0.006246117	0.10877	4.45115E-06
	June	0.41198	0.01691	0.16605	0.00305	7.72795E-05	0.001098734	188.94	0.0035	0.006758533	0.04376	0.02149	0.02735	26.49	0.23453	0.000318196	0.00595	0.09071	0.15416	0.000496762	22.8303	8.2708	0.45027	0.002261493	0.000559317	0.00023128	0.00648	0.008182006	0.13668	5.77156E-06
	July	0.38883	0.0153	0.15914	0.00332	7.01797E-05	0.0009932	170.356	0.0033	0.006091615	0.03996	0.02179	0.02466	23.8872	0.21403	0.000286984	0.00542	0.08207	0.13695	0.000480538	20.6134	7.51467	0.40643	0.002072384	0.000519453	0.00025632	0.00603	0.007365805	0.12562	5.19914E-06
	August	0.37183	0.0144	0.15414	0.00341	6.73976E-05	0.000937342	160.104	0.00317	0.005721883	0.03789	0.02206	0.02332	22.4328	0.2023	0.000269412	0.00514	0.07722	0.12289	0.000472271	19.4279	7.11717	0.3846	0.001967367	0.000503965	0.0002641	0.00653	0.006977817	0.11968	4.87862E-06
	September	0.36301	0.01396	0.15068	0.00333	6.52131E-05	0.000908271	155.142	0.0031	0.00554458	0.03677	0.02161	0.02258	21.7406	0.1964	0.000261128	0.00499	0.07488	0.11951	0.000465123	18.8239	6.90084	0.37241	0.001910516	0.000489293	0.00026257	0.00624	0.006751452	0.11624	4.72739E-06
	October	0.41535	0.01653	0.17083	0.00328	7.74399E-05	0.001076937	184.146	0.00352	0.00658235	0.04297	0.02176	0.02685	25.7949	0.23089	0.000309731	0.00588	0.08862	0.14149	0.000491478	22.3349	8.15263	0.44259	0.002240806	0.00057114	0.00027107	0.00755	0.008046805	0.13611	5.61332E-06
Junction 4	November	0.36255	0.01455	0.16269	0.00365	7.41072E-05	0.000960521	161.534	0.00047	0.005756615	0.05429	0.04206	0.0242	22.7364	0.20539	0.000269874	0.00535	0.0779	0.0978	0.001029763	19.8013	7.34684	0.39968	0.002025956	0.000560461	0.00030367	0.01048	0.007316533	0.12541	4.88729E-06
	December	0.35238	0.01421	0.16033	0.00376	8.638E-05	0.000968615	157.703	0.00042	0.005587435	0.05187	0.03698	0.02529	22.2558	0.19944	0.000258922	0.00552	0.07549	0.03908	0.000989111	19.7892	7.4857	0.41811	0.002023034	0.000648019	0.00030563	0.01936	0.00784091	0.12848	4.70032E-06
	January	0.45342	0.01965	0.19502	0.00343	0.000132975	0.001373025	219.804	0.00039	0.007761011	0.06817	0.03559	0.03692	31.0739	0.26867	0.000355967	0.00784	0.10373	0.00934	0.00114623	27.9506	10.5663	0.60951	0.002759178	0.000956936	0.00028356	0.03562	0.011668891	0.17748	6.49391E-06
	February	0.62786	0.02842	0.25336	0.00289	0.000170547	0.00194094	319.398	0.00043	0.011333406	0.09755	0.04511	0.05113	45.0688	0.38448	0.000523881	0.01077	0.15077	0.09445	0.00146047	39.8412	14.7121	0.84223	0.003843299	0.00119354	0.00025756	0.03743	0.015935321	0.24163	9.55794E-06
	March	0.55099	0.02447	0.22747	0.00309	0.000148494	0.001673844	274.502	0.00034	0.009735156	0.08461	0.04264	0.04411	38.7397	0.33294	0.000449883	0.00934	0.12981	0.07399	0.001341724	34.3162	12.734	0.72711	0.003341508	0.001051312	0.00027077	0.03327	0.013754263	0.21073	8.20262E-06
	April	0.56829	0.02448	0.22981	0.00309	0.000116852	0.001602574	274.037	0.00497	0.009796498	0.06285	0.02348	0.04031	38.3338	0.33668	0.000459833	0.00868	0.13104	0.20464	0.000732141	33.2641	12.0485	0.6634	0.003257179	0.000831158	0.00027984	0.01265	0.012151614	0.19747	8.35303E-06
	May	0.33929	0.01286	0.13975	0.00305	5.82133E-05	0.000832617	142.886	0.00307	0.005109304	0.03444	0.0211	0.02056	20.0526	0.18132	0.000241049	0.00456	0.06906	0.11889	0.000587371	17.274	6.3192	0.33918	0.001757334	0.000438835	0.00024667	0.00454	0.006120675	0.10662	4.36188E-06
	June	0.40372	0.01657	0.16272	0.00299	7.57321E-05	0.001076802	185.156	0.00361	0.006623245	0.04328	0.02106	0.0268	25.9577	0.22983	0.000311817	0.00583	0.0889	0.15228	0.000631401	22.3732	8.10527	0.44125	0.00221617	0.000548115	0.00022664	0.00635	0.008018242	0.13397	5.65594E-06
	July	0.38271	0.01506	0.15665	0.00327	6.90757E-05	0.000977665	167.678	0.00343	0.005995821	0.03973	0.02145	0.02427	23.5114	0.21067	0.000282471	0.00533	0.08078	0.136	0.00061758	20.2889	7.3965	0.40003	0.002039774	0.000511282	0.00025229	0.00593	0.007249885	0.12369	5.11735E-06
	August	0.36657	0.0142	0.15197	0.00337	6.6445E-05	0.000924167	157.839	0.00331	0.005640934	0.03775	0.02175	0.02299	22.1156	0.19944	0.000265601	0.00507	0.07614	0.12235	0.000610183	19.1531	7.01648	0.37917	0.001939573	0.000496842	0.00026036	0.00644	0.006879035	0.11802	4.80965E-06
	September	0.35756	0.01375	0.14841	0.00328	6.42343E-05	0.000894714	152.809	0.00323	0.00546139	0.03661	0.02128	0.02224	21.4139	0.19345	0.000257196	0.00491	0.07375	0.11892	0.000602745	18.5412	6.79716	0.36681	0.001881854	0.000481938	0.00025863	0.00615	0.006650052	0.11453	4.6564E-06
	October	0.41106	0.01636	0.16908	0.00324	7.66423E-05	0.001065932	182.251	0.00367	0.006514566	0.04292	0.02154	0.02658	25.53	0.22851	0.000306542	0.00582	0.08771	0.14124	0.000631028	22.105	8.06849	0.43804	0.00221775	0.000565246	0.00026827	0.00748	0.007963971	0.13474	5.55551E-06
Junction 5	November	0.36234	0.01454	0.16259	0.00365	7.40621E-05	0.000960016	161.438	0.00065	0.005752974	0.05465	0.04204	0.02419	22.7225	0.20526	0.000269713	0.00534	0.07786	0.09894	0.001173726	19.7892	7.34247	0.39943	0.002024771	0.00056012	0.00030349	0.01047	0.007312248	0.12537	4.88432E-06
	December	0.35235	0.01421	0.16031	0.00375	8.63719E-05	0.000968615	157.691	0.0006	0.005587155	0.05226	0.03697	0.02529	22.2537	0.19942	0.000258902	0.00552	0.07549	0.04024	0.001133633	19.7873	7.48501	0.41807	0.002022797	0.000647958	0.00030561	0.01935	0.007840196	0.12851	4.69977E-06
	January	0.45342	0.01965	0.19501	0.00343	0.000132975	0.001373025	219.8	0.00057	0.007761011	0.06856	0.03559	0.03692	31.0739	0.26866	0.000355967	0.00784	0.10373	0.00975	0.001290835	27.9502	10.5661	0.60951	0.002759178	0.000956924	0.00028356	0.03562	0.011668653	0.17751	6.49379E-06
	February	0.62786	0.02842	0.25336	0.00289	0.000170547	0.001941053	319.398	0.00061	0.011333406	0.09794	0.04511	0.05113	45.0688	0.38448	0.000523881	0.01077	0.15077	0.09566	0.001605075	39.8412	14.7121	0.84223	0.003843299	0.00119354	0.00025756	0.03743	0.015935321	0.24166	9.55794E-06
	March	0.55099	0.02447	0.22747	0.00309	0.000148494	0.001673957	274.502	0.00052	0.009735156	0.085	0.04264	0.04411	38.7397	0.33295	0.000449883	0.00934	0.12981	0.07519	0.001486328	34.3162	12.734	0.72711	0.003341508	0.001051312	0.00027077	0.03327	0.013754263	0.21077	8.20262E-06
	April	0.56829	0.02448	0.22981	0.00309	0.000116852	0.001602686	274.037	0.00515	0.009796498	0.06324	0.02348	0.04031	38.3338	0.33669	0.000459833	0.00868	0.13104	0.20584	0.000876746	33.2641	12.0485	0.6634	0.003257179	0.000831158	0.00027984	0.01265	0.012151614	0.19751	8.35303E-06
	May	0.33673	0.01276	0.13868	0.00303	5.77699E-05	0.000826367	141.796	0.00322	0.00507037	0.03457	0.0211	0.02041	19.9	0.17994	0.000239224	0.00452	0.06854	0.11919	0.0007275	17.1426	6.27092	0.3366	0.00174399	0.000435499	0.00024479	0.0045	0.006074022	0.10584	4.32864E-06
	June	0.40068	0.01645	0.16149	0.00297	7.51571E-05	0.00106872	183.75	0.00376	0.006572827	0.04334	0.0209	0.0266	25.7609	0.22809	0.00030945	0.00578	0.08822	0.15232	0.000771219	22.2031	8.04366	0.43791	0.002199352	0.000543951	0.00022492	0.0063	0.007957306	0.13299	5.61308E-06
	July	0.38041	0.01497	0.15571	0.00325	6.86629E-05	0.000971898	166.672	0.00359	0.005959968	0.03989	0.02132	0.02413	23.371	0.20941	0.000280786	0.0053	0.0803	0.13639	0.000758497	20.1677	7.35236	0.39764	0.002027535	0.000508226	0.00025078	0.00589	0.007206563	0.12298	5.08672E-06
	August	0.3646	0.01412	0.15115	0.00335	6.60881E-05	0.000919288	156.99	0.00347	0.005610683	0.03794	0.02163	0.02287	21.9968	0.19837	0.000264177	0.00504	0.07573	0.1229	0.000751514	19.0503	6.97877	0.37713	0.001929151	0.000494175	0.00025897	0.0064	0.006842141	0.11742	4.78378E-06
	September	0.35551	0.01367	0.14757	0.00326	6.38675E-05	0.000889701	151.94	0.0034	0.005430299	0.0368	0.02116	0.02211	21.2919	0.19235	0.000255732	0.00488	0.07333	0.11944	0.00074391	18.4356	6.75853	0.36473	0.001871115	0.000479199	0.00025716	0.00612	0.006612205	0.11391	4.62993E-06
	October	0.40944	0.0163	0.16841	0.00323	7.63413E-05	0.001061829	181.537	0.00383	0.006489077	0.04314	0.02146	0.02647	25.4303	0.22762	0.000305338	0.0058	0.08737	0.14189	0.000773167	22.0182	8.03699	0.43632	0.002209064	0.00056303	0.00026723	0.00745	0.007932789	0.13424	5.53379E-06

Notes: [a] Regulation criteria applies to total concentrations.

CCME criteria for:

Aluminium depends on pH conditions. Values are provided for reference given [b] pH<6.5 and [c] pH>=6.5

Cadmium depends on hardness concentrations. Values are provided for reference given a hardness of [d] 0--17, [e] >=280 and [f] 40 mg/L.

Copper depends on hardness concentrations. Values are provided for reference given a hardness of [g] 0–82 and [h] >=180 mg/L.

Manganese depends on hardness concentrations and pH conditions. Values are provided for reference given a hardness of [i] 10-24 and [j] >=670 mg/L and pH of [i] 6.7–6.9 and [j] 6.5–6.7.

Nickel depends on hardness concentrations. Values are provided for reference given a hardness of [k] <=60 and [l] >=180 mg/L.

Lead depends on hardness concentrations. Values are provided for reference given a hardness of [m] <=60 and [n] >=180 mg/L.

Zinc depends on hardness and DOC concentrations, and pH conditions. Values are provided for reference given a pH of [o,p,q] 6.5-6.7, [o,p,q] DOC 8 mg/L and hardness [o] 8, [p] 399, and [q] 38 mg/L.

Table P: Dissolved Metals. Historical Conditions. Mineral precipitation was allowed. Effluent pH of 6.5

Regulation[a]		Al mg/L	As mg/L	B mg/L	Ba mg/L	Be mg/L	Cd mg/L	Ca mg/L	Cr mg/L	Co mg/L	Cu mg/L	Fe mg/L	Li mg/L	Mg mg/L	Mn mg/L	Hg mg/L	Mo mg/L	Ni mg/L	P mg/L	Pb mg/L	K mg/L	Na mg/L	Sr mg/L	Se mg/L	Sb mg/L	Tl mg/L	Ti mg/L	U mg/L	Zn mg/L	Sn mg/L
MDMER			0.1								0.1							0.25		0.08									0.4	
Directive 019 (2025)			0.1								0.1	3						0.25		0.08									0.4	
CVAC (hardness 10mg/L)			0.15		0.038	0.000138	0.00005			0.1	0.0013	0.65	0.44		0.26	0.00091	3.2	0.007		0.00017			21	0.005	0.24	0.0072		0.014	0.017	
CVAA (hardness 10mg/L)			0.34		0.11	0.00124	0.0002			0.37	0.0016	3.4	0.91		0.6	0.0016	29	0.07		0.004			40	0.062	1.1	0.047		0.32	0.017	
CVAC (hardness 90mg/L)					0.391	0.005583018	0.000250301				0.00853				1.75906			0.04771		0.002782244									0.10958	
CVAA (hardness 90mg/L)					1.12	0.050245928	0.001916511				0.01268				3.79535			0.42916		0.071397133									0.10958	
CVAC (hardness 400mg/L)					1.911	0.068822	0.0076				0.0305				6.52			0.169		0.01858									0.388	
CVAA (hardness 400mg/L)					5.45	0.61939	0.0087				0.0517				14.1			1.52		0.477									0.388	
CCME (long-term)		0.005	0.005	1.5			0.00004				0.002	0.3			0.23	0.000026	0.073	0.025		0.001				0.001		0.0008		0.015	0.02	
CCME (long-term)		0.1					0.00037				0.004				1.2			0.15		0.007									0.312	
CCME (long-term)							0.00007																						0.037	
Station	**Time**															**Effluent**														
Junction 6	November	0.36212	0.01454	0.1625	0.00365	7.40161E-05	0.00095951	161.338	0.00083	0.005749613	0.05501	0.04201	0.02417	22.7086	0.20514	0.000269553	0.00534	0.07781	0.10008	0.001317606	19.7771	7.33787	0.39919	0.002023508	0.000559779	0.0003033	0.01046	0.007307726	0.12533	4.88136E-06
	December	0.35232	0.0142	0.1603	0.00375	8.63646E-05	0.000968615	157.675	0.00078	0.005586595	0.05265	0.03697	0.02528	22.2517	0.1994	0.000258881	0.00552	0.07548	0.04141	0.001278134	19.7857	7.48432	0.41804	0.002022639	0.000647897	0.00030559	0.01935	0.007839482	0.12853	4.69949E-06
	January	0.45342	0.01965	0.19501	0.00343	0.000132966	0.001373137	219.796	0.00075	0.007761011	0.06895	0.03559	0.03692	31.0739	0.26866	0.000355967	0.00784	0.10373	0.01019	0.001435419	27.9502	10.5661	0.6095	0.002759099	0.000956912	0.00028354	0.03562	0.011668653	0.17755	6.49379E-06
	February	0.62786	0.02842	0.25336	0.00289	0.000170547	0.001941053	319.398	0.00079	0.011333406	0.09833	0.04511	0.05113	45.0688	0.38448	0.000523881	0.01077	0.15077	0.09686	0.00174968	39.8412	14.7121	0.84223	0.003843299	0.00119354	0.00025756	0.03743	0.015935321	0.2417	9.55794E-06
	March	0.55099	0.02447	0.22747	0.00309	0.000148494	0.001673957	274.502	0.0007	0.009735156	0.08539	0.04264	0.04411	38.7397	0.33295	0.000449883	0.00934	0.12981	0.07639	0.001630933	34.3162	12.734	0.72711	0.003341508	0.001051312	0.00027077	0.03327	0.013754263	0.2108	8.20262E-06
	April	0.56829	0.02448	0.22981	0.00309	0.000116852	0.001602799	274.037	0.00533	0.009796498	0.06363	0.02348	0.04031	38.3338	0.33669	0.000459833	0.00868	0.13104	0.20705	0.001021351	33.2641	12.0485	0.6634	0.003257179	0.000831158	0.00027984	0.01265	0.012151614	0.19755	8.35303E-06
	May	0.33417	0.01266	0.13763	0.003	5.73301E-05	0.000820161	140.718	0.00338	0.005031997	0.0347	0.02078	0.02025	19.7485	0.17857	0.000237398	0.00449	0.06801	0.11949	0.000866573	17.0125	6.22333	0.33404	0.001730724	0.000432187	0.00024293	0.00447	0.006027844	0.10507	4.29576E-06
	June	0.39763	0.01632	0.16026	0.00295	7.45866E-05	0.001060694	182.355	0.00391	0.006522969	0.04341	0.02074	0.02639	25.5664	0.22636	0.000307103	0.00574	0.08755	0.15237	0.00090996	22.0346	7.98251	0.43458	0.002182691	0.000539823	0.00022321	0.00625	0.007896847	0.13202	5.57047E-06
	July	0.37815	0.01488	0.15478	0.00323	6.8252E-05	0.000966165	165.678	0.00375	0.005924395	0.04004	0.0212	0.02398	23.2312	0.20816	0.000279101	0.00527	0.07982	0.13678	0.000898564	20.0469	7.30845	0.39525	0.002015454	0.000505182	0.00024929	0.00586	0.00716348	0.12228	5.05633E-06
	August	0.36266	0.01404	0.15033	0.00333	6.57331E-05	0.000914432	156.148	0.00363	0.005580712	0.03813	0.02152	0.02274	21.8786	0.1973	0.000262753	0.00501	0.07532	0.12345	0.000892079	18.9478	6.9413	0.3751	0.001918728	0.000491521	0.00025758	0.00637	0.006805485	0.11683	4.75813E-06
	September	0.35349	0.01359	0.14672	0.00324	6.35034E-05	0.000884709	151.074	0.00356	0.005399208	0.03698	0.02104	0.02199	21.1706	0.19126	0.000254268	0.00485	0.07291	0.11997	0.000884267	18.3305	6.71991	0.36264	0.001860456	0.000476471	0.00025568	0.00608	0.006574597	0.1133	4.60346E-06
	October	0.40785	0.01623	0.16775	0.00322	7.60421E-05	0.00105776	180.824	0.004	0.006463588	0.04337	0.02137	0.02637	25.3307	0.22673	0.000304135	0.00578	0.08702	0.14254	0.000914726	21.9318	8.0055	0.4346	0.002200378	0.000560827	0.00026619	0.00742	0.007901608	0.13375	5.51206E-06
OutletSP04	November	0.23934	0.00022	0.0707	0.00567	1.30091E-05	7.94981E-05	0.57175	0.00011	4.82136E-05	0.00627	0.02948	0.00035	0.32335	0.01762	2.18001E-06	0.00017	0.00077	0.01729	0.000184771	0.51668	0.8317	0.017	8.91222E-06	6.74733E-05	0.00035356	0.00212	0.000137981	0.00875	3.53578E-09
	December	0.23934	0.00022	0.0707	0.00567	1.30091E-05	7.94981E-05	0.57175	0.00011	4.82136E-05	0.00627	0.02948	0.00035	0.32335	0.01762	2.18001E-06	0.00017	0.00077	0.01729	0.000184771	0.51668	0.8317	0.017	8.91222E-06	6.74733E-05	0.00035356	0.00212	0.000137981	0.00875	3.53578E-09
	January	0.23934	0.00022	0.0707	0.00567	1.30091E-05	7.94981E-05	0.57175	0.00011	4.82136E-05	0.00627	0.02948	0.00035	0.32335	0.01762	2.18001E-06	0.00017	0.00077	0.01729	0.000184771	0.51668	0.8317	0.017	8.91222E-06	6.74733E-05	0.00035356	0.00212	0.000137981	0.00875	3.53578E-09
	February	0.23934	0.00022	0.0707	0.00567	1.30091E-05	7.94981E-05	0.57175	0.00011	4.82136E-05	0.00627	0.02948	0.00035	0.32335	0.01762	2.18001E-06	0.00017	0.00077	0.01729	0.000184771	0.51668	0.8317	0.017	8.91222E-06	6.74733E-05	0.00035356	0.00212	0.000137981	0.00875	3.53578E-09
	March	0.23934	0.00022	0.0707	0.00567	1.30091E-05	7.94981E-05	0.57175	0.00011	4.82136E-05	0.00627	0.02948	0.00035	0.32335	0.01762	2.18001E-06	0.00017	0.00077	0.01729	0.000184771	0.51668	0.8317	0.017	8.91222E-06	6.74733E-05	0.00035356	0.00212	0.000137981	0.00875	3.53578E-09
	April	0.09106	0.00022	0.0707	0.00567	1.30091E-05	7.9344E-05	0.57175	0.00049	4.81884E-05	0.00335	0.02074	0.00035	0.32335	0.01762	2.18001E-06	0.00017	0.00077	0.01867	0.000127355	0.51668	0.8317	0.017	8.91222E-06	6.74733E-05	0.00035356	0.00212	0.000137981	0.00867	3.53578E-09
	May	1.08053	0.05037	0.403	0.00283	0.000215373	0.003253036	568.186	0.00856	0.020368872	0.12708	0.0598	0.08075	79.8249	0.68002	0.000959623	0.01707	0.27029	0.52435	0.000843076	67.9528	24.0266	1.32525	0.006413368	0.001438716	0.00020661	0.00968	0.024107568	0.38143	1.74611E-05
	June	1.10284	0.0515	0.41049	0.00319	0.000219933	0.003324644	581.011	0.00875	0.020827396	0.12987	0.06031	0.08256	81.6186	0.69497	0.000981226	0.01745	0.27638	0.54062	0.000857974	69.4738	24.5508	1.35478	0.006557865	0.001469643	0.0002033	0.00985	0.024650274	0.38985	1.78552E-05
	July	1.09189	0.05094	0.40681	0.00322	0.000217698	0.003289458	574.719	0.00866	0.020602475	0.12848	0.05886	0.08167	80.7363	0.6876	0.000970635	0.01727	0.27339	0.53256	0.000848484	68.727	24.2933	1.34024	0.006486959	0.001454423	0.00020494	0.00977	0.024383682	0.38572	1.76617E-05
	August	1.04929	0.04878	0.39251	0.00332	0.000208983	0.003152875	550.271	0.00831	0.019727723	0.12316	0.05745	0.07821	77.3142	0.65909	0.000929414	0.01654	0.26179	0.5015	0.00081931	65.822	23.2955	1.28398	0.00621123	0.00139537	0.00021125	0.00945	0.023351826	0.36967	1.69102E-05
	September	1.09313	0.05101	0.40723	0.00318	0.000217951	0.003293393	575.44	0.00867	0.020627965	0.12867	0.06125	0.08177	80.836	0.68843	0.000971818	0.01729	0.27373	0.53362	0.000853643	68.813	24.3232	1.3419	0.006494934	0.001456128	0.00020475	0.00978	0.024414625	0.38619	1.7683E-05
	October	1.09159	0.05093	0.4067	0.00232	0.000217635	0.003288447	574.558	0.00865	0.020596033	0.12843	0.05838	0.08165	80.712	0.68738	0.000970334	0.01726	0.27331	0.53232	0.000847116	68.7074	24.2864	1.33989	0.006484906	0.001454058	0.00020498	0.00977	0.024376541	0.3856	1.76557E-05
Lake A	November	0.38144	0.0152	0.1612	0.00353	7.25895E-05	0.001000024	169.334	0.00318	0.006059683	0.04587	0.02991	0.02472	23.8123	0.21317	0.000285018	0.00539	0.08142	0.10823	0.001202858	20.5817	7.57375	0.40871	0.002039379	0.000524006	0.00026962	0.00704	0.007416505	0.12512	5.16412E-06
	December	0.38532	0.01544	0.16339	0.00355	7.52499E-05	0.001018426	171.995	0.0031	0.006149876	0.04813	0.03251	0.0253	24.1932	0.21626	0.00028889	0.00552	0.08264	0.10696	0.001364557	20.9536	7.72065	0.41826	0.002079096	0.000544438	0.00027242	0.00823	0.007614545	0.1279	5.23606E-06
	January	0.39687	0.01606	0.16781	0.00354	7.99642E-05	0.001062976	179.056	0.00313	0.006397764	0.05108	0.0349	0.02656	25.1946	0.22434	0.000300103	0.00577	0.0859	0.10738	0.001523604	21.8638	8.05906	0.43888	0.002165004	0.00057696	0.00027226	0.00974	0.00802086	0.13351	5.44226E-06
	February	0.42024	0.01729	0.17628	0.00349	8.77651E-05	0.001147747	192.996	0.00311	0.00689102	0.05608	0.03763	0.02885	27.1633	0.24037	0.000322729	0.00624	0.0924	0.11219	0.001692347	23.6103	8.69404	0.47654	0.002327583	0.000629475	0.00027052	0.0117	0.008746372	0.14376	5.85715E-06
	March	0.43597	0.01811	0.18206	0.00346	9.30057E-05	0.001204741	202.374	0.00311	0.007222659	0.05965	0.04016	0.0304	28.4879	0.25118	0.000337954	0.00656	0.09677	0.11598	0.001840454	24.7852	9.12142	0.50187	0.002437653	0.000664992	0.00026977	0.01301	0.009234094	0.15071	6.13636E-06
	April	0.47336	0.01992	0.19546	0.00337	9.98009E-05	0.001318167	222.77	0.00387	0.00795512	0.06041	0.02297	0.03322	31.3	0.27545	0.000372636	0.00716	0.10651	0.1421	0.001657807	27.1976	9.95411	0.54784	0.002669164	0.000711712	0.00027163	0.0129	0.010064576	0.16399	6.7673E-06
	May	0.38079	0.01525	0.15887	0.00343	7.23363E-05	0.001005273	170.171	0.00346	0.006095536	0.04294	0.02414	0.02474	23.9543	0.21335	0.000286763	0.00537	0.08168	0.1023	0.000999139	20.658	7.59352	0.40939	0.002021534	0.000511976	0.00025478	0.00642	0.007420075	0.12393	5.19784E-06
	June	0.39941	0.01633	0.16473	0.00343	7.59502E-05	0.001073677	182.491	0.00372	0.006541175	0.04454	0.02556	0.02637	25.6807	0.22739	0.000307926	0.0057	0.08747	0.11522	0.00093988	22.0933	8.08067	0.43611	0.00214329	0.000530289	0.00024452	0.00589	0.007896847	0.13084	5.58388E-06
	July	0.39301	0.01591	0.16244	0.00349	7.37404E-05	0.001045529	177.746	0.00375	0.006371435	0.0432	0.02554	0.02564	25.0098	0.22206	0.000300043	0.00555	0.08527	0.11347	0.000935384	21.5138	7.87515	0.42419	0.002093782	0.000517346	0.00024818	0.00556	0.007672386	0.1278	5.43941E-06
	August	0.36104	0.01424	0.1515	0.00356	6.68983E-05	0.0009376	158.689	0.00357	0.005687431	0.03899	0.02439	0.02297	22.3251	0.19994	0.000267808	0.005	0.07628	0.09487	0.000936171	19.2516	7.09027	0.38038	0.001889118	0.000475193	0.00025431	0.00545	0.006873561	0.11578	4.85144E-06
	September	0.36112	0.01422	0.15153	0.00356	6.67181E-05	0.000935993	158.456	0.00359	0.005679028	0.03884	0.02408	0.02292	22.2911	0.19973	0.000267447	0.00499	0.07618	0.0954	0.000929106	19.2215	7.07901	0.37965	0.001887618	0.000474487	0.00025525	0.0054	0.006859041	0.11567	4.84456E-06
	October	0.382	0.0152	0.15929	0.00349	7.12323E-05	0.000999158	169.534	0.00381	0.006073688	0.04122	0.02329	0.02456	23.8306	0.21296	0.000285961	0.00534	0.08146	0.10809	0.000969965	20.5575	7.54915	0.40626	0.002019797	0.000507325	0.00025887	0.00592	0.007351285	0.12351	5.18169E-06
Junction 26	May	0.32405	0.01189	0.13935	0.00362	5.74725E-05	0.000783975	131.821	0.00297	0.004715764	0.03387	0.02391	0.01924	18.5549	0.16967	0.000222073	0.00427	0.06374	0.07533	0.000756384	16.071	5.99182	0.31909	0.001628076	0.000428035	0.00027994	0.00572	0.005759824	0.10057	4.01453E-06
	June	0.3411	0.01291	0.14445	0.0036	6.0734E-05	0.000848501	143.439	0.00323	0.005137594	0.03519	0.02469	0.02076	20.188	0.1828	0.000242092	0.00457	0.06919	0.08641	0.000705723	17.4195	6.44817	0.34397	0.001738383	0.000442598	0.00026805	0.00508	0.006201129	0.10679	4.3804E-06
	July	0.33587	0.01257	0.14258	0.00365	5.89487E-05	0.000825647	139.584	0.00326	0.004999505	0.03406	0.02444	0.02017	19.6426	0.17846	0.000235693	0.00445	0.0674	0.08491	0.000695819	16.9487	6.28126	0.33431	0.001698114	0.000432151	0.00027099	0.00481	0.006019275	0.10432	4.26288E-06
	August	0.31377	0.01143	0.13504	0.00369	5.43651E-05	0.000752567	126.638	0.00315	0.004534819	0.03134	0.02424	0.01836	17.818	0.1634	0.000213789	0.00408	0.06129	0.07191	0.000707567	15.4141	5.74951	0.30467	0.001558276	0.000403561	0.00027455	0.00477	0.005479902	0.09612	3.86354E-06
	September	0.31272	0.01135	0.13467	0.00369	5.39217E-05	0.000746856	125.689	0.00315	0.004500647	0.03109	0.02435	0.01821	17.6829	0.16236	0.000212204	0.00405	0.06085	0.0718	0.000697228	15.298	5.70836	0.30228	0.001549116	0.000401272	0.00027577	0.00471	0.005434914	0.09556	3.83433E-06
	October	0.33463	0.01244	0.14269	0.00362	5.88991E-05	0.000817542	138.041	0.0034	0.004942084	0.03361	0.02348	0.02002	19.4056	0.17693	0.000232905	0.00443	0.06671	0.08468	0.000758663	16.7853	6.23069	0.33182	0.001691165	0.00043545	0.00027661	0.00521	0.005980714	0.10399	4.21159E-06
Junction 27	May	0.32613	0.012	0.14037	0.00363	5.82079E-05	0.00079117	132.991	0.00314	0.004756658	0.03499	0.02373	0.01945	18.7175	0.1711	0.000223919	0.00431	0.0643	0.07771	0.000940771	16.2207	6.04723	0.32243	0.001644816	0.000434111	0.00028142	0.00596	0.005825043	0.10167	4.04849E-06
	June	0.33503	0.01255	0.14235	0.00361	5.91533E-05	0.000825164	139.383	0.00334	0.004991662	0.03455	0.0245	0.02017	19.6171	0.17817	0.000235252	0.00445	0.06729	0.08446	0.000802631	16.9335	6.27851	0.33439	0.001696219	0.000433478	0.0002705	0.00499	0.006024988	0.10431	4.25528E-06
	July	0.32993	0.01222	0.14052	0.00366	5.74112E-05	0.000802861	135.616	0.00336	0.004856934	0.03344	0.02426	0.0196	19.0845	0.17393	0.000229014	0.00434	0.06554	0.08299	0.00079225	16.4745	6.11551	0.32497	0.001656976	0.000423286	0.00027336	0.00474	0.005847418	0.10191	4.1406E-06
	August	0.30883	0.01114	0.13332	0.0037	5.30601E-05	0.000733366	123.304	0.00326	0.004414936	0.03088	0.02409	0.01788	17.3487	0.1596	0.000208172	0.00398	0.05973	0.07057	0.000805055	15.0145	5.60973	0.29679	0.001523849	0.000396097	0.00027665	0.0047	0.005334704	0.0941	3.76061E-06
	September	0.30767	0.01105	0.13291	0.0037	5.25906E-05	0.00072724	122.278	0.00326	0.004377963	0.03063	0.02439	0.01772	17.2033	0.15847	0.000206447	0.00395	0.05925	0.07039	0.000795503	14.8898	5.56559	0.29423	0.0015139	0.000393662	0.0002779	0.00464	0.005286622	0.09349	3.72916E-06
	October	0.32969	0.01215	0.14096	0.00363	5.76113E-05	0.000798645	134.75	0.00351	0.004823882	0.03316	0.02351	0.01955	18.9436	0.17316	0.000227369	0.00433	0.06517	0.08328	0.00085988	16.3912	6.09298	0.32405	0.001656818	0.00042795	0.00027847	0.00513	0.005837659	0.10198	4.11033E-06
Junction 28	May	0.17367	0.00308	0.08648	0.00407	1.73602E-05	0.000201716	31.2031	0.00137	0.001101521	0.0097	0.02142	0.00468	4.39653	0.05467	5.27772E-05	0.00133	0.01665	0.00754	9.42698E-05	3.99663	1.76364	0.07987	0.0005779	0.000194073	0.00033738	0.003	0.001345506	0.03782	9.18685E-07
	June	0.17043	0.0029	0.08509	0.00408	1.61967E-05	0.00018917	29.1443	0.00135	0.001028807	0.00878	0.02115	0.00434	4.1073	0.05226	4.94394E-05	0.00126	0.01568	0.00578	7.5715E-05	3.73815	1.66915	0.07428	0.000552996	0.000185903	0.00033693	0.0027	0.001237893	0.03623	8.57585E-07
	July	0.17283	0.00303	0.08591	0.00408	1.6732E-05	0.000197849	30.6681	0.0014	0.001083819	0.00895	0.02109	0.00455	4.32143	0.05402	5.20351E-05	0.0013	0.0164	0.00557	7.95047E-05	3.91921	1.73182	0.07777	0.00056878	0.000188959	0.00033613	0.00269	0.001301137	0.03715	9.0495E-07
	August	0.16856	0.00282	0.08446	0.00409	1.58705E-05	0.000183999	28.2129	0.00139	0.000995559	0.00862	0.0211	0.0042	3.9746	0.05115	4.78708E-05	0.00123	0.01524	0.00532	7.82387E-05	3.62777	1.63094	0.07215	0.000542076	0.000183529	0.0003367	0.00269	0.001199142	0.03559	8.29035E-07
	September	0.16777	0.00277	0.08419	0.00409	1.56271E-05	0.000180582	27.6314	0.00138	0.000974524	0.00865	0.02132	0.00412	3.89196	0.05049	4.68879E-05	0.00121	0.01496	0.00672	7.82864E-05	3.55724	1.60618	0.07074	0.000536178	0.000182189	0.00033721	0.00267	0.001172935	0.03524	8.11015E-07
	October	0.17626	0.00322	0.08723	0.00406	1.76828E-05	0.000210327	32.803	0.00149	0.001159922	0.00982	0.0218	0.00487	4.61649	0.05651	5.55815E-05	0.00137	0.0174	0.0097	9.50903E-05	4.17883	1.82396	0.08305	0.000592942	0.000195267	0.00033592	0.00283	0.001399896	0.03863	9.69766E-07

Notes: [a] Regulation criteria applies to total concentrations.

CCME criteria for:

Aluminium depends on pH conditions. Values are provided for reference given [b] pH<6.5 and [c] pH>=6.5

Cadmium depends on hardness concentrations. Values are provided for reference given a hardness of [d] 0--17, [e] >=280 and [f] 40 mg/L.

Copper depends on hardness concentrations. Values are provided for reference given a hardness of [g] 0–82 and [h] >=180 mg/L.

Manganese depends on hardness concentrations and pH conditions. Values are provided for reference given a hardness of [i] 10-24 and [j] >=670 mg/L and pH of [i] 6.7–6.9 and [j] 6.5–6.7.

Nickel depends on hardness concentrations. Values are provided for reference given a hardness of [k] <=60 and [l] >=180 mg/L.

Lead depends on hardness concentrations. Values are provided for reference given a hardness of [m] <=60 and [n] >=180 mg/L.

Zinc depends on hardness and DOC concentrations, and pH conditions. Values are provided for reference given a pH of [o,p,q] 6.5-6.7, [o,p,q] DOC 8 mg/L and hardness [o] 8, [p] 399, and [q] 38 mg/L.

Table Q: General Chemistry Historical Conditions. No precipitation. Effluent pH of 6.5

Regulation		Hardness mg/L	pH n/a	Alk mg/L	DOC mg/L	F mg/L	Si mg/L	Sulphate mg/L	Cl mg/L	Nitrate as N mg/L	Nitrite as N mg/L	Total Ammonia as N mg/L
MDMER												0.5[a]
CCME (long-term)			6.5-9							2.935483871	0.05995652	0.019[a]
CCME (long-term)												
CCME (long-term)												
Station	**Time**	**Effluent**										
Effluent	n/a	1851.81883	6.5	37.69015	8.912862	1.0025457	52.624683	1589.217	40.09395	6.575847907	0.04533778	0.1355315
	n/a	1851.81883	7.22544	33.90177	8.912862	1.0025457	52.624683	1589.217	40.09395	6.575847907	0.04533778	0.1355315
	n/a	1851.81883	6.3249	34.37229	8.912862	1.0025457	52.624683	1589.217	40.09395	6.350022026	0.0437808	0.130877116
Year 21 Historical Conditions												
Junction 2	November	206.229125	6.67271	8.409952	9.088941	0.114682	7.0624497	175.0021	4.439404	0.695115035	0.00479253	0.014326667
	December	335.570922	6.60029	10.48522	9.136701	0.1844897	10.652558	286.1435	7.241726	1.139398035	0.00785568	0.023483561
	January	412.478263	6.5686	11.70214	9.134786	0.225986	12.78319	352.2328	8.907876	1.403706775	0.00967798	0.028931096
	February	468.893792	6.54899	12.59128	9.126886	0.2564214	14.344812	400.7143	10.13019	1.597732113	0.01101571	0.032930054
	March	703.232604	6.48926	16.28297	9.090617	0.3828558	20.831042	602.1137	15.20734	0.839870545	0.00579056	0.01731015
	April	4.56805629	7.02357	5.172517	9.198825	0.00591	1.491923	1.669907	0.069996	0.327727708	0.00225955	0.006754631
	May	178.817974	7.02788	7.240834	8.014633	0.0994889	6.1437424	151.7076	3.849161	0.66128318	0.00455928	0.013629376
	June	460.41525	7.10285	11.58482	7.906903	0.2513869	13.929021	393.7307	9.950461	1.655869669	0.01141654	0.034128298
	July	394.896697	7.11737	10.77301	8.290661	0.2161828	12.170318	337.3339	8.529625	1.425841074	0.00983059	0.029387295
	August	227.05119	7.08923	8.176719	8.342132	0.1256364	7.5281123	193.071	4.892809	0.832908047	0.00574256	0.01716665
	September	236.389396	7.0654	8.300893	8.302512	0.1306634	7.7810723	201.1112	5.095583	0.865787287	0.00596925	0.017844307
	October	263.37922	7.04357	8.875667	8.578181	0.1453245	8.569394	224.2329	5.67909	0.962127521	0.00663348	0.019829927
Junction 3	November	505.201827	6.61472	14.84743	8.844035	0.2798465	15.43957	431.9146	10.89591	1.755614102	0.01210424	0.036184081
	December	493.082504	6.71358	17.1217	8.581293	0.2787826	15.250301	421.444	10.6031	1.760937541	0.01214094	0.0362938
	January	687.600641	6.75233	24.43176	8.036897	0.39321	20.880312	588.5404	14.76563	2.511542422	0.01731606	0.05176414
	February	998.300373	6.65588	29.45848	7.973576	0.5611368	29.488161	855.5584	21.49582	3.582954539	0.02470301	0.073846477
	March	858.052148	6.67362	26.2723	8.118054	0.4832814	25.550157	735.0415	18.4691	2.516165408	0.01734793	0.051859422
	April	855.960468	7.22542	20.31154	8.829311	0.4694885	25.167413	733.3413	18.4932	1.027031448	0.00708096	0.02116763
	May	455.051114	7.07641	11.52141	7.432053	0.2489361	13.730138	389.2351	9.832412	1.640179533	0.01130837	0.033804917
	June	589.785076	7.14092	13.85654	7.140105	0.3223459	17.447027	505.0739	12.74782	2.122090841	0.01463095	0.043737349
	July	531.778319	7.15489	13.15394	7.682226	0.2910365	15.913044	455.0843	11.49041	1.917418626	0.01321982	0.039518953
	August	499.891717	7.16271	12.90314	7.806595	0.2742609	15.061031	427.6495	10.79701	1.808288129	0.01246741	0.037269719
	September	484.380749	7.13263	12.5646	7.740041	0.2657497	14.6176	414.3356	10.462	1.75225193	0.01208106	0.036114785
	October	574.983659	7.13355	14.43747	8.12368	0.3152975	17.201878	492.0962	12.42097	2.078102425	0.01432767	0.042830726
Junction 4	November	504.403211	6.61491	14.83212	8.844633	0.2794095	15.417338	431.2229	10.8789	1.752812292	0.01208492	0.036126334
	December	492.972419	6.71359	17.11795	8.579378	0.2787066	15.246696	421.348	10.60097	1.76051727	0.01213805	0.036285138
	January	687.580625	6.75233	24.43126	8.036658	0.39321	20.879711	588.5308	14.76528	2.511402331	0.01731509	0.051761253
	February	998.300373	6.65588	29.45848	7.973576	0.5611368	29.488161	855.5584	21.49582	3.582954539	0.02470301	0.073846477
	March	858.052148	6.67362	26.2723	8.118054	0.4832814	25.550157	735.0415	18.4691	3.081570652	0.02124617	0.063512706
	April	855.960468	7.22542	20.31154	8.829311	0.4694885	25.167413	733.3413	18.4932	3.092637801	0.02132247	0.063740805
	May	445.921069	7.06959	11.29018	7.282907	0.2439395	13.454345	381.4158	9.634956	1.607258267	0.01108139	0.033126393
	June	577.975964	7.13433	13.57902	6.997064	0.3158864	17.097329	494.9588	12.49258	2.07950333	0.01433732	0.042859599
	July	523.411863	7.14962	12.94703	7.561329	0.2864579	15.663088	447.9278	11.30961	1.887159079	0.01301119	0.038895288
	August	492.825265	7.15789	12.72066	7.696231	0.2703853	14.848329	421.5977	10.64422	1.782791659	0.01229162	0.036744224
	September	477.107136	7.1286	12.37591	7.623693	0.26176	14.397688	408.1109	10.30461	1.725914917	0.01189948	0.035571966
	October	569.069096	7.13008	14.28872	8.04001	0.3120488	17.024626	487.0338	12.293	2.056668579	0.01417989	0.042388964
Junction 5	November	504.095974	6.61494	14.82306	8.839247	0.2792385	15.407725	430.9636	10.87216	1.751831659	0.01207816	0.036106123
	December	492.924382	6.71359	17.1164	8.57854	0.2786876	15.245494	421.3096	10.5999	1.760377179	0.01213708	0.03628225
	January	687.580625	6.75233	24.43101	8.036658	0.393191	20.879711	588.5212	14.76528	2.511402331	0.01731509	0.051761253
	February	998.300373	6.65588	29.45848	7.973576	0.5611368	29.488161	855.5584	21.49582	3.582954539	0.02470301	0.073846477
	March	858.052148	6.67362	26.2723	8.118054	0.4832814	25.550157	735.0415	18.4691	3.081570652	0.02124617	0.063512706
	April	855.960468	7.22542	20.31154	8.829311	0.4694885	25.167413	733.3413	18.4932	3.092637801	0.02132247	0.063740805
	May	442.529452	7.06702	11.20424	7.227486	0.2420777	13.3522	378.5148	9.561929	1.595070393	0.01099736	0.032875195
	June	573.582575	7.13184	13.47596	6.943917	0.3134927	16.967544	491.1932	12.39757	2.063813195	0.01422915	0.042536218
	July	520.278445	7.14763	12.86961	7.516083	0.2847481	15.569355	445.2477	11.2419	1.875951839	0.01293392	0.038664302
	August	490.173219	7.15607	12.65239	7.654815	0.2689414	14.768415	419.3403	10.58714	1.773125414	0.01222497	0.036544998
	September	474.380032	7.12555	12.30534	7.580242	0.2602591	14.315971	405.7863	10.24611	1.716108582	0.01183187	0.035369852
	October	566.827366	7.12877	14.23272	8.008409	0.3108329	16.957931	485.1222	12.24478	2.048543331	0.01412387	0.042221498
Junction 6	November	503.787736	6.61497	14.81405	8.83374	0.2790675	15.398111	430.6946	10.86543	1.750710935	0.01207044	0.036083024
	December	492.876345	6.71359	17.1149	8.577822	0.2786686	15.243691	421.2711	10.59884	1.760237089	0.01213611	0.036279363
	January	687.570618	6.75233	24.43076	8.036538	0.393191	20.879711	588.5212	14.76528	2.511402331	0.01731509	0.051761253
	February	998.300373	6.65588	29.45848	7.973576	0.5611368	29.488161	855.5584	21.49582	3.582954539	0.02470301	0.073846477
	March	858.052148	6.67362	26.2723	8.118054	0.4832814	25.550157	735.0415	18.4691	3.081570652	0.02124617	0.063512706
	April	855.960468	7.22542	20.31154	8.829311	0.4694885	25.167413	733.3413	18.4932	3.092637801	0.02132247	0.063740805
	May	439.162855	7.06444	11.11901	7.172424	0.2402348	13.250655	375.633	9.488902	1.58288252	0.01091333	0.032623997
	June	569.229215	7.12936	13.37366	6.891249	0.3111179	16.838961	487.4661	12.30363	2.048123059	0.01412097	0.042212836
	July	517.170047	7.14564	12.79263	7.471195	0.2830572	15.476222	442.5868	11.1749	1.864744599	0.01285665	0.038433315
	August	487.543189	7.15425	12.58442	7.613758	0.2674975	14.689102	417.0829	10.53042	1.763599261	0.0121593	0.036348659
	September	471.676947	7.1236	12.23522	7.53703	0.2587772	14.234255	403.4712	10.18762	1.706302248	0.01176426	0.035167739
	October	564.615659	7.12745	14.17691	7.977047	0.309617	16.891236	483.2202	12.19693	2.040558172	0.01406881	0.04205692
OutletSP04	November	2.75923723	6.52632	3.313966	9.088103	0.0443347	1.491923	2.519366	0.479958	0.049648072	0.0003423	0.001023271
	December	2.75923723	6.52632	3.313966	9.088103	0.0443347	1.491923	2.519366	0.479958	0.049648072	0.0003423	0.001023271
	January	2.75923723	6.52632	3.313966	9.088103	0.0443347	1.491923	2.519366	0.479958	0.049648072	0.0003423	0.001023271
	February	2.75923723	6.52632	3.313966	9.088103	0.0443347	1.491923	2.519366	0.479958	0.049648072	0.0003423	0.001023271
	March	2.75923723	6.52632	3.313966	9.088103	0.0443347	1.491923	2.519366	0.479958	0.049648072	0.0003423	0.001023271
	April	2.75923723	7.15521	3.280497	9.088103	0.0443347	1.491923	2.519366	0.479958	0.064734418	0.00044632	0.001334209
	May	1772.49763	7.20563	32.58811	8.920283	0.9614332	50.430962	1521.11	38.39235	6.296507457	0.04341184	0.129774154
	June	1812.40843	7.23606	33.24947	8.916573	0.9821225	51.535333	1555.404	39.25024	6.437158315	0.04438157	0.132673038
	July	1792.77328	7.24272	32.92484	8.918368	0.9719773	50.993362	1538.593	38.82839	6.3680937	0.0439054	0.131249582
	August	1716.63454	7.23048	31.66328	8.92567	0.9324986	48.886765	1473.272	37.19769	6.09996049	0.04205673	0.125723223
	September	1795.08506	7.21983	32.96168	8.918249	0.9731172	51.054649	1540.514	38.87802	6.375938768	0.04395949	0.131411273
	October	1792.26288	7.18969	32.91578	8.918748	0.9716923	50.978341	1538.113	38.81775	6.366272524	0.04389284	0.131212047
Lake A	November	528.940147	6.85712	13.30744	8.006374	0.2959001	15.911842	452.8941	11.48935	1.916578083	0.01321402	0.039501629
	December	537.253564	6.81769	13.83367	8.068618	0.3005547	16.174416	459.9833	11.6588	1.951740798	0.01345645	0.04022635
	January	559.351618	6.79412	14.61	8.0758	0.3130177	16.816129	478.9359	12.12886	2.036915819	0.0140437	0.041981849
	February	602.89522	6.76037	15.82666	8.076758	0.3372407	18.058697	516.3129	13.06191	2.199700976	0.01516604	0.045336933
	March	632.207841	6.73826	16.65299	8.088368	0.3534843	18.89689	541.4614	13.68902	2.309111654	0.01592038	0.047591941
	April	695.876962	7.20999	17.6723	8.273305	0.3866175	20.677223	596.0715	15.05774	2.531995634	0.01745707	0.052185691
	May	531.599203	7.08749	12.86545	7.613997	0.2991679	15.920254	455.4301	11.57655	1.922882155	0.01325749	0.039631559
	June	570.039863	7.09993	13.14533	7.436243	0.3201611	16.946514	488.5612	12.42026	2.055127584	0.01416926	0.042357203
	July	555.208418	7.10528	12.88072	7.507823	0.3117448	16.539736	475.7852	12.0966	2.001332833	0.01379837	0.041248466
	August	495.795576	7.09761	12.02006	7.54505	0.2796565	14.901805	424.7101	10.80729	1.792317812	0.0123573	0.036940563
	September	495.066013	7.07558	12.01025	7.56911	0.2791245	14.883779	424.0665	10.79027	1.789375912	0.01233701	0.036879929
	October	529.612667	7.06281	12.77912	7.727234	0.297116	15.869782	453.6626	11.52657	1.913356001	0.01319181	0.03943522
Junction 26	May	411.812771	7.08937	11.25079	8.041566	0.2322745	12.655809	352.252	8.955379	1.498548041	0.01033188	0.030885821
	June	448.083758	7.09647	11.42581	7.81641	0.2523748	13.613572	383.5484	9.756549	1.622668221	0.01118763	0.033444
	July	436.031457	7.10286	11.21235	7.873746	0.2455544	13.283101	373.1643	9.493865	1.579100077	0.01088725	0.032546039
	August	395.68933	7.09567	10.62461	7.882006	0.2238582	12.169116	338.4962	8.618959	1.437188404	0.00990883	0.029621169
	September	392.711032	7.07294	10.58337	7.909178	0.2221103	12.089203	335.9218	8.553376	1.426401436	0.00983445	0.029398844
	October	431.258774	7.0564	11.35414	8.002903	0.2425716	13.17675	368.9857	9.380425	1.564250484	0.01078487	0.032239981
Junction 27	May	415.471594	7.09714	11.4092	8.084299	0.2341173	12.766967	355.3644	9.030179	1.512697181	0.01042943	0.031177442
	June	435.410979	7.09608	11.24714	7.855911	0.2453454	13.266878	372.636	9.479685	1.577699172	0.01087759	0.032517166
	July	423.642898	7.10259	11.03898	7.911811	0.2386769	12.944219	362.5016	9.223027	1.535111661	0.01058397	0.031639416
	August	385.266288	7.09545	10.47932	7.917197	0.2180637	11.884912	329.5242	8.39137	1.400218522	0.00965393	0.028859201
	September	382.05581	7.07265	10.43487	7.944609	0.2161828	11.798389	326.7481	8.32047	1.388647047	0.00957415	0.028620707
Junction 28	n/a	413.861352	7.0829	11.4064	8.09962	0.2331864	12.725508	353.9715	8.99402	1.507093562	0.01039079	0.031061949
	May	97.5422685	7.059	6.588632	8.949131	0.0575367	4.0436941	81.69807	2.097187	0.380976105	0.00262667	0.007852107
	June	91.1103051	7.08359	6.392736	8.929022	0.054003	3.8571286	76.18519	1.960101	0.356838513	0.00246026	0.007354619
	July	95.8789848	7.09401	6.450744	8.918368	0.0566206	3.9872137	80.28983	2.064324	0.373551309	0.00257548	0.007699078
	August	88.2140708	7.0885	6.338532	8.917171	0.052523	3.7753522	73.70396	1.898312	0.346639925	0.00238994	0.007144421
	September	86.3826575	7.06335	6.313057	8.926987	0.0514838	3.7257216	72.12569	1.858183	0.340097698	0.00234483	0.007009583
	October	102.540125	7.02919	6.591885	8.924234	0.0602477	4.1748006	86.00924	2.207791	0.397646874	0.00274161	0.0081957

Notes: [a] Regulatory criteria is for un-ionized ammonia

Table R: Dissolved Metals Historical Conditions. No precipitation. Effluent pH of 6.5

Regulation[a]		Al mg/L	As mg/L	B mg/L	Ba mg/L	Be mg/L	Cd mg/L	Ca mg/L	Cr mg/L	Co mg/L	Cu mg/L	Fe mg/L	Li mg/L	Mg mg/L	Mn mg/L	Hg mg/L	Mo mg/L	Ni mg/L	P mg/L	Pb mg/L	K mg/L	Na mg/L	Sr mg/L	Se mg/L	Sb mg/L	Tl mg/L	Ti mg/L	U mg/L	Zn mg/L	Sn mg/L
MDMER			0.1								0.1							0.25		0.08									0.4	
Directive 019 (2025)			0.1								0.1	3						0.25		0.08									0.4	
CVAC (hardness 10mg/L)			0.15		0.038	0.000138	0.00005			0.1	0.0013	0.65	0.44		0.26	0.00091	3.2	0.007		0.00017			21	0.005	0.24	0.0072		0.014	0.017	
CVAA (hardness 10mg/L)			0.34		0.11	0.00124	0.0002			0.37	0.0016	3.4	0.91		0.6	0.0016	29	0.07		0.004			40	0.062	1.1	0.047		0.32	0.017	
CVAC (hardness 90mg/L)					0.391	0.005583018	0.000250301				0.00852572				1.75906			0.04771		0.00278									0.10958	
CVAA (hardness 90mg/L)					1.12	0.050245928	0.001916511				0.01267613				3.79535			0.42916		0.0714									0.10958	
CVAC (hardness 400mg/L)					1.911	0.068822	0.0076				0.0305				6.52			0.169		0.01858									0.388	
CVAA (hardness 400mg/L)					5.45	0.61939	0.0087				0.0517				14.1			1.52		0.477									0.388	
CCME (long-term)		0.005[b]	0.005	1.5			0.00004[d]				0.002[g]	0.3			0.23[i]	0.000026	0.073	0.025[k]		0.001[m]				0.001		0.0008		0.015	0.02[o]	
CCME (long-term)		0.1[c]					0.00037[e]				0.004[h]				1.2[j]			0.15[l]		0.007[n]									0.312[p]	
CCME (long-term)							0.00007[f]																						0.037[q]	
Station	**Time**	**Effluent**																												
Effluent	n/a	1.12486	0.05261	0.41789	0.05769	0.000224439	0.003397151	604.096	0.00856	0.021284239	0.188846	4.22752	0.08435	83.388	0.70974	0.001002549	0.01783	0.28257	5.63784	0.0071	70.9751	25.068	1.38387	0.006700388	0.001500205	0.00020003	0.01002	0.025183459	0.39906	1.82434E-05
	n/a	1.12486	0.05261	0.41789	0.05769	0.000224439	0.003397151	604.096	0.00856	0.021283959	0.188846	4.22752	0.08435	83.388	0.70974	0.001002549	0.01783	0.28257	5.63784	0.0071	70.9751	25.068	1.38387	0.006700388	0.001500205	0.00020003	0.01002	0.025183459	0.39906	1.82434E-05
	n/a	1.12486	0.05261	0.41789	0.05769	0.000224439	0.003397151	604.096	0.00856	0.021284239	0.188846	4.22752	0.08435	83.388	0.70974	0.001002549	0.01783	0.28257	5.63784	0.0071	70.9751	25.068	1.38387	0.006700467	0.001500205	0.00020003	0.01002	0.025183459	0.39906	1.82434E-05
Year 21 Historical Conditions																														
Junction 2	November	0.23669	0.00616	0.10801	0.01	2.92698E-05	0.000396866	67.2709	0.00149	0.00235312	0.0293716	0.62502	0.00952	9.28937	0.09569	0.000111879	0.00235	0.03326	0.62533	0.00099	8.1215	3.18753	0.15896	0.000965997	0.000272913	0.00033382	0.00297	0.002780178	0.06056	1.99516E-06
	December	0.30735	0.00982	0.13283	0.01378	4.46427E-05	0.000632823	109.465	0.00205	0.003841011	0.04196959	0.90938	0.0154	15.1133	0.14408	0.000181885	0.00357	0.05287	1.01928	0.00147	13.0631	4.91015	0.25527	0.001418358	0.000370187	0.00032568	0.00353	0.004540878	0.0873	3.27189E-06
	January	0.34895	0.01199	0.14736	0.01601	5.37676E-05	0.000773049	134.554	0.00238	0.004725567	0.04942926	1.07786	0.0189	18.5763	0.17279	0.000223517	0.00429	0.06452	1.25354	0.00175	16.001	5.93297	0.31252	0.001686507	0.000427621	0.00031966	0.00387	0.005587729	0.10312	4.03127E-06
	February	0.37936	0.01358	0.15797	0.01764	6.04573E-05	0.000875907	152.958	0.00262	0.005374559	0.05489421	1.20134	0.02147	21.1167	0.19384	0.000254047	0.00482	0.07307	1.42538	0.00196	18.1557	6.68313	0.35452	0.001883038	0.000469665	0.00031502	0.00411	0.006355848	0.11472	4.58826E-06
	March	0.50569	0.02019	0.20202	0.02443	8.82446E-05	0.001303103	229.402	0.00363	0.008070521	0.07758967	1.71411	0.03212	31.6694	0.28126	0.00038088	0.00703	0.10857	2.13917	0.00283	27.1061	9.79824	0.52895	0.002699406	0.000644293	0.00029552	0.00511	0.009546149	0.16291	6.90216E-06
	April	0.12906	0.00047	0.0707	0.0042	5.39875E-06	2.93873E-05	1.48517	0.00063	3.29734E-05	0.00992017	0.18524	0.00035	0.20874	0.02062	2.73344E-06	0.00046	0.00273	0.01106	0.00024	0.42136	0.51056	0.0089	0.000265629	0.000123672	0.0003536	0.00212	3.46165E-05	0.01926	3.53566E-09
	May	0.20707	0.00535	0.09467	0.00873	2.54495E-05	0.000344414	58.3295	0.0013	0.002040052	0.02560523	0.54451	0.00826	8.05468	0.08325	9.70113E-05	0.00204	0.02887	0.54216	0.00086	7.04551	2.77027	0.13791	0.00084124	0.000238394	0.0002946	0.0026	0.002410281	0.05278	1.72925E-06
	June	0.35799	0.01329	0.1471	0.01686	5.88072E-05	0.000857663	150.192	0.0025	0.005279885	0.05281499	1.15951	0.02106	20.7346	0.18817	0.000249414	0.00469	0.07152	1.39992	0.0019	17.7991	6.5107	0.34748	0.001820423	0.000447383	0.00026872	0.00379	0.006244212	0.11055	4.51015E-06
	July	0.3278	0.01146	0.13763	0.01513	5.12352E-05	0.000739066	128.819	0.00225	0.004525296	0.04685374	1.02325	0.01809	17.7845	0.1645	0.000213969	0.00409	0.06168	1.20026	0.00167	15.3066	5.65801	0.29893	0.001602335	0.000403452	0.00028855	0.0036	0.005351128	0.09782	3.86152E-06
	August	0.23768	0.00672	0.10628	0.01028	3.13462E-05	0.00043312	74.0641	0.00153	0.002594202	0.03062218	0.65646	0.01046	10.2266	0.10193	0.000123126	0.00251	0.03625	0.68898	0.00105	8.89682	3.428	0.17401	0.001018347	0.000278709	0.00030347	0.00288	0.003065812	0.06336	2.20409E-06
	September	0.24219	0.00698	0.10774	0.01053	3.24339E-05	0.000450061	77.1101	0.00157	0.002701789	0.03148831	0.67617	0.01088	10.6473	0.10534	0.000128183	0.0026	0.03766	0.71748	0.00108	9.25261	3.55031	0.18094	0.001049852	0.000285174	0.00030124	0.00292	0.003193158	0.06521	2.29644E-06
	October	0.26059	0.00776	0.11493	0.01144	3.57811E-05	0.000499894	85.9152	0.0017	0.003011635	0.03438982	0.7405	0.01211	11.8623	0.11598	0.000142794	0.00287	0.04181	0.79956	0.00119	10.2907	3.92274	0.20119	0.001151395	0.000308929	0.00030976	0.00309	0.003559722	0.07132	2.56164E-06
Junction 3	November	0.39353	0.01458	0.1635	0.01949	7.42676E-05	0.0009625	164.741	0.00273	0.005766139	0.0589656	1.28745	0.02424	22.7889	0.20589	0.000270335	0.00536	0.07807	1.51431	0.00209	19.8361	7.3627	0.40039	0.002031325	0.000562324	0.00030692	0.01051	0.007328672	0.12609	4.89513E-06
	December	0.38109	0.01421	0.16037	0.02034	8.63989E-05	0.000969638	160.701	0.00263	0.005588835	0.05871142	1.27276	0.02529	22.2955	0.19949	0.000258982	0.00552	0.07555	1.44651	0.00204	19.7935	7.48731	0.4182	0.002023429	0.000648153	0.00030572	0.01936	0.007842577	0.12938	4.70139E-06
	January	0.47493	0.01965	0.19502	0.02802	0.000132975	0.001374936	224.004	0.00337	0.007761571	0.07908935	1.71807	0.03692	31.1469	0.26869	0.000355987	0.00784	0.10382	1.98551	0.00274	27.9514	10.5666	0.60953	0.002759178	0.000956961	0.00028356	0.03562	0.011669129	0.1793	6.49403E-06
	February	0.64208	0.02842	0.25336	0.03708	0.000170547	0.001942964	325.357	0.0047	0.011333966	0.10923557	2.39854	0.05113	45.1392	0.3845	0.000523881	0.01077	0.15086	2.93024	0.0039	39.8412	14.7121	0.84224	0.003843378	0.00119354	0.00025756	0.03743	0.015935321	0.24349	9.55794E-06
	March	0.56907	0.02447	0.22747	0.03254	0.000148494	0.001675531	279.64	0.00412	0.009735436	0.09529994	2.08721	0.04411	38.8029	0.33296	0.000449883	0.00934	0.12989	2.51538	0.00338	34.3162	12.7343	0.72711	0.003341508	0.001051325	0.00027077	0.03327	0.013754263	0.21238	8.20262E-06
	April	0.58299	0.02448	0.22981	0.02976	0.000116852	0.001604148	279.159	0.00424	0.009798458	0.09306312	2.05694	0.04031	38.5866	0.33672	0.000459833	0.00868	0.13117	2.58049	0.00339	33.2641	12.0485	0.66341	0.003257179	0.00083117	0.00027984	0.01265	0.012151614	0.19873	8.35303E-06
	May	0.3483	0.01312	0.14262	0.01663	5.94056E-05	0.00085003	148.433	0.00245	0.005214902	0.05193487	1.14052	0.02099	20.4988	0.18505	0.000245984	0.00465	0.07053	1.38041	0.00187	17.6279	6.44863	0.34613	0.00179334	0.000447821	0.00025172	0.00463	0.006246117	0.10918	4.45115E-06
	June	0.41686	0.01691	0.16605	0.02061	7.72804E-05	0.001099499	192.374	0.003	0.006759933	0.06488047	1.43276	0.02735	26.5727	0.23455	0.000318196	0.00595	0.09079	1.78629	0.00236	22.8303	8.2708	0.45028	0.002261493	0.000559317	0.00023128	0.00648	0.008182006	0.13728	5.77156E-06
	July	0.39301	0.0153	0.15914	0.01912	7.01797E-05	0.000993852	173.454	0.00279	0.006092735	0.0597701	1.31532	0.02466	23.9594	0.21406	0.000286984	0.00542	0.08214	1.61054	0.00216	20.6134	7.51467	0.40643	0.002072384	0.000519453	0.00025632	0.00603	0.007365805	0.12619	5.19914E-06
	August	0.37731	0.0144	0.15414	0.01834	6.73985E-05	0.000938039	163.045	0.00266	0.005723003	0.05688638	1.24897	0.02332	22.5273	0.20231	0.000269412	0.00514	0.07729	1.51127	0.00205	19.4279	7.11717	0.38461	0.001967367	0.000503965	0.0002641	0.00653	0.006977817	0.12031	4.87862E-06
	September	0.36806	0.01396	0.15068	0.01783	6.52131E-05	0.000908923	157.987	0.00259	0.0055457	0.05528566	1.21334	0.02258	21.8276	0.19642	0.000261128	0.00499	0.07495	1.46475	0.00199	18.8239	6.90084	0.37241	0.001910516	0.000489293	0.00026257	0.00624	0.006751452	0.11683	4.72751E-06
	October	0.42215	0.01653	0.17083	0.02075	7.74399E-05	0.001077803	187.537	0.003	0.006583751	0.0645818	1.42075	0.02685	25.9116	0.23092	0.000309731	0.00588	0.0887	1.73775	0.00233	22.3349	8.15263	0.44259	0.002240606	0.00057114	0.00027707	0.00755	0.008046805	0.13684	5.61332E-06
Junction 4	November	0.39309	0.01456	0.16335	0.01947	7.41576E-05	0.000961005	164.48	0.00273	0.005756895	0.05888744	1.28566	0.02421	22.7529	0.20559	0.000269914	0.00535	0.07795	1.51189	0.00209	19.8052	7.35167	0.39977	0.002028482	0.00056163	0.000307	0.0105	0.007317009	0.12592	4.88729E-06
	December	0.38101	0.01421	0.16033	0.02033	8.638E-05	0.000969425	160.665	0.00263	0.005587715	0.05869808	1.27248	0.02529	22.2906	0.19944	0.000258922	0.00552	0.07554	1.44616	0.00204	19.7892	7.4857	0.41811	0.002023034	0.00064809	0.00030563	0.01936	0.00784091	0.12935	4.70032E-06
	January	0.47493	0.01965	0.19502	0.02802	0.000132975	0.001374823	224	0.00337	0.007761571	0.07908935	1.71802	0.03692	31.1444	0.26869	0.000355967	0.00784	0.10382	1.98545	0.00274	27.9506	10.5663	0.60952	0.002759178	0.000956936	0.00028356	0.03562	0.011668891	0.1793	6.49391E-06
	February	0.64208	0.02842	0.25336	0.03708	0.000170547	0.001942964	325.357	0.0047	0.011333966	0.10923557	2.39854	0.05113	45.1392	0.3845	0.000523881	0.01077	0.15086	2.93024	0.0039	39.8412	14.7121	0.84224	0.003843378	0.00119354	0.00025756	0.03743	0.015935321	0.24349	9.55794E-06
	March	0.56907	0.02447	0.22747	0.03254	0.000148494	0.001675531	279.64	0.00412	0.009735436	0.09529994	2.08721	0.04411	38.8029	0.33296	0.000449883	0.00934	0.12989	2.51538	0.00338	34.3162	12.7343	0.72711	0.003341508	0.001051325	0.00027077	0.03327	0.013754263	0.21238	8.20262E-06
	April	0.58299	0.02448	0.22981	0.02976	0.000116852	0.001604148	279.159	0.00424	0.009798458	0.09306312	2.05694	0.04031	38.5866	0.33672	0.000459833	0.00868	0.13117	2.58049	0.00339	33.2641	12.0485	0.66341	0.003257179	0.00083117	0.00027984	0.01265	0.012151614	0.19873	8.35303E-06
	May	0.34132	0.01286	0.13975	0.0163	5.82133E-05	0.000832976	145.455	0.0024	0.005110425	0.05089272	1.11768	0.02056	20.0874	0.18133	0.000241049	0.00456	0.06912	1.35272	0.00183	17.274	6.3192	0.33919	0.001757334	0.000438835	0.00024667	0.00454	0.006120675	0.10699	4.36188E-06
	June	0.40853	0.01657	0.16272	0.0202	7.57321E-05	0.001077466	188.523	0.00294	0.006624365	0.06358413	1.40405	0.0268	26.0404	0.22986	0.000311817	0.00583	0.08897	1.75051	0.00232	22.3732	8.10527	0.44125	0.00221617	0.000548115	0.00022664	0.00635	0.008018242	0.13454	5.65594E-06
	July	0.38683	0.01506	0.15665	0.01882	6.90757E-05	0.000978227	170.724	0.00275	0.005996941	0.05882962	1.29465	0.02427	23.5827	0.21069	0.000282471	0.00533	0.08085	1.58521	0.00213	20.2889	7.3965	0.40003	0.002039774	0.000511282	0.00025229	0.00593	0.007250123	0.1242	5.11735E-06
	August	0.37199	0.0142	0.15197	0.01808	6.6445E-05	0.000924774	160.741	0.00262	0.005642054	0.05608189	1.23133	0.02299	22.0867	0.19946	0.000265601	0.00507	0.0762	1.4899	0.00202	19.1531	7.01648	0.37917	0.001939573	0.000496842	0.00026038	0.00644	0.006879035	0.1186	4.80965E-06
	September	0.36252	0.01375	0.14841	0.01756	6.42343E-05	0.000895276	155.615	0.00255	0.00546223	0.05445574	1.19514	0.02224	21.5	0.19347	0.000257196	0.00491	0.07382	1.44276	0.00196	18.5412	6.79716	0.36681	0.001881854	0.00048195	0.00025863	0.00615	0.006650052	0.11508	4.6564E-06
	October	0.41781	0.01636	0.16908	0.02054	7.66423E-05	0.001066696	185.605	0.00297	0.006515686	0.06391457	1.40612	0.02658	25.6466	0.22854	0.000306542	0.00582	0.08779	1.71985	0.00231	22.105	8.06849	0.43804	0.00221775	0.000565246	0.00026827	0.00748	0.007963971	0.13543	5.55551E-06
Junction 5	November	0.39288	0.01455	0.16325	0.01946	7.41126E-05	0.00096042	164.38	0.00273	0.005753534	0.05885122	1.28488	0.02419	22.739	0.20546	0.000269733	0.00535	0.0779	1.51096	0.00209	19.7931	7.3473	0.39952	0.002027219	0.000561277	0.00030682	0.01049	0.007312486	0.12584	4.88432E-06
	December	0.38095	0.01421	0.16031	0.02033	8.63719E-05	0.000969335	160.649	0.00263	0.005587155	0.05869299	1.27237	0.02529	22.2887	0.19943	0.000258902	0.00552	0.07553	1.44604	0.00204	19.7876	7.48501	0.41808	0.002022797	0.000647958	0.00030561	0.01935	0.007840196	0.12934	4.69997E-06
	January	0.4749	0.01965	0.19501	0.02801	0.000132975	0.001374823	224	0.00337	0.007761291	0.07908935	1.71802	0.03692	31.1444	0.26869	0.000355967	0.00784	0.10382	1.98545	0.00274	27.9506	10.5661	0.60951	0.002759099	0.000956924	0.00028356	0.03562	0.011668653	0.1793	6.49379E-06
	February	0.64208	0.02842	0.25336	0.03708	0.000170547	0.001942964	325.357	0.0047	0.011333966	0.10923557	2.39854	0.05113	45.1392	0.3845	0.000523881	0.01077	0.15086	2.93024	0.0039	39.8412	14.7121	0.84224	0.003843378	0.00119354	0.00025756	0.03743	0.015935321	0.24349	9.55794E-06
	March	0.56907	0.02447	0.22747	0.03254	0.000148494	0.001675531	279.64	0.00412	0.009735436	0.09529994	2.08721	0.04411	38.8029	0.33296	0.000449883	0.00934	0.12989	2.51538	0.00338	34.3162	12.7343	0.72711	0.003341508	0.001051325	0.00027077	0.03327	0.013754263	0.21238	8.20262E-06
	April	0.58299	0.02448	0.22981	0.02976	0.000116852	0.001604148	279.159	0.00424	0.009798458	0.09306312	2.05694	0.04031	38.5866	0.33672	0.000459833	0.00868	0.13117	2.58049	0.00339	33.2641	12.0485	0.66341	0.003257179	0.00083117	0.00027984	0.01265	0.012151614	0.19873	8.35303E-06
	May	0.33873	0.01276	0.13868	0.01618	5.77699E-05	0.000826636	144.349	0.00238	0.005071491	0.05050573	1.10914	0.02041	19.9345	0.17996	0.000239224	0.00452	0.06859	1.3424	0.00181	17.1426	6.27092	0.3366	0.00174399	0.000435499	0.00024479	0.0045	0.006074022	0.10618	4.32864E-06
	June	0.40542	0.01645	0.16149	0.02005	7.51571E-05	0.001069293	187.088	0.00292	0.006574227	0.06310118	1.39339	0.0266	25.8435	0.22811	0.00030945	0.00578	0.0883	1.73723	0.0023	22.2031	8.04366	0.43791	0.002199352	0.000543951	0.00022492	0.0063	0.007957306	0.13352	5.61308E-06
	July	0.38451	0.01497	0.15571	0.01871	6.86629E-05	0.00097237	169.702	0.00273	0.005961088	0.05847821	1.28689	0.02413	23.4414	0.20943	0.000280786	0.0053	0.08037	1.57573	0.00212	20.1677	7.35236	0.39764	0.002027535	0.000508226	0.00025078	0.00589	0.007206563	0.12346	5.08672E-06
	August	0.37	0.01412	0.15115	0.01798	6.60881E-05	0.000919805	159.875	0.00261	0.005611804	0.05578068	1.22468	0.02287	22.0896	0.19839	0.000264177	0.00504	0.07579	1.48191	0.00201	19.0503	6.97877	0.37713	0.001929151	0.000494175	0.00025897	0.0064	0.006842141	0.11797	4.78378E-06
	September	0.36047	0.01367	0.14757	0.01746	6.38675E-05	0.000890173	154.725	0.00253	0.005431139	0.054145	1.18833	0.02211	21.3772	0.19237	0.000255732	0.00488	0.0734	1.43452	0.00195	18.4356	6.75853	0.36473	0.001871115	0.000479199	0.00025716	0.00612	0.006612205	0.11442	4.62993E-06
	October	0.41619	0.0163	0.16841	0.02046	7.63413E-05	0.001062515	184.876	0.00296	0.006490197	0.06366674	1.40065	0.02647	25.5446	0.22764	0.000305338	0.0058	0.08744	1.7131	0.0023	22.0182	8.03699	0.43632	0.002209064	0.00056303	0.00026723	0.00745	0.007932789	0.1349	5.53379E-06

Notes: [a] Regulation criteria applies to total concentrations.

CCME criteria for:

Aluminium depends on pH conditions. Values are provided for reference given [b] pH<6.5 and [c] pH>=6.5

Cadmium depends on hardness concentrations. Values are provided for reference given a hardness of [d] 0--17, [e] >=280 and [f] 40 mg/L.

Copper depends on hardness concentrations. Values are provided for reference given a hardness of [g] 0--82 and [h] >=180 mg/L.

Manganese depends on hardness concentrations and pH conditions. Values are provided for reference given a hardness of [i] 10-24 and [j] >=670 mg/L and pH of [i] 6.7-6.9 and [j] 6.5-6.7.

Nickel depends on hardness concentrations. Values are provided for reference given a hardness of [k] <=60 and [l] >=180 mg/L.

Lead depends on hardness concentrations. Values are provided for reference given a hardness of [m] <=60 and [n] >=180 mg/L.

Zinc depends on hardness and DOC concentrations, and pH conditions. Values are provided for reference given a pH of [o,p,q] 6.5-6.7, [o,p,q] DOC 8 mg/L and hardness [o] 8, [p] 399, and [q] 38 mg/L.

Table R: Dissolved Metals Historical Conditions. No precipitation. Effluent pH of 6.5

Regulation[a]		Al	As	B	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Li	Mg	Mn	Hg	Mo	Ni	P	Pb	K	Na	Sr	Se	Sb	Tl	Ti	U	Zn	Sn
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MDMER			0.1								0.1							0.25		0.08									0.4	
Directive 019 (2025)			0.1								0.1	3						0.25		0.08									0.4	
CVAC (hardness 10mg/L)			0.15		0.038	0.000138	0.00005			0.1	0.0013	0.65	0.44		0.26	0.00091	3.2	0.007		0.00017			21	0.005	0.24	0.0072		0.014	0.017	
CVAA (hardness 10mg/L)			0.34		0.11	0.00124	0.0002			0.37	0.0016	3.4	0.91		0.6	0.0016	29	0.07		0.004			40	0.062	1.1	0.047		0.32	0.017	
CVAC (hardness 90mg/L)					0.391	0.005583018	0.000250301				0.00852572				1.75906			0.04771		0.00278									0.10958	
CVAA (hardness 90mg/L)					1.12	0.050245928	0.001916511				0.01267613				3.79535			0.42916		0.0714									0.10958	
CVAC (hardness 400mg/L)					1.911	0.068822	0.0076				0.0305				6.52			0.169		0.01858									0.388	
CVAA (hardness 400mg/L)					5.45	0.61939	0.0087				0.0517				14.1			1.52		0.477									0.388	
CCME (long-term)		0.005[b]	0.005	1.5			0.00004[d]				0.002[g]	0.3			0.23[i]	0.000026	0.073	0.025[k]		0.001[m]				0.001		0.0008		0.015	0.02[o]	
CCME (long-term)		0.1[c]					0.00037[e]				0.004[h]				1.2[j]			0.15[l]		0.007[n]									0.312[p]	
CCME (long-term)							0.00007[f]																						0.037[q]	
Station	**Time**	**Effluent**																												
Junction 6	November	0.39264	0.01454	0.16316	0.01945	7.40675E-05	0.000959836	164.28	0.00273	0.005749893	0.05881564	1.2841	0.02418	22.7249	0.20534	0.000269573	0.00534	0.07786	1.51003	0.00208	19.781	7.3427	0.39928	0.002026035	0.000560936	0.00030662	0.01048	0.007307964	0.12576	4.88136E-06
	December	0.38093	0.0142	0.1603	0.02033	8.63646E-05	0.000969256	160.633	0.00263	0.005586595	0.05868791	1.27226	0.02528	22.2867	0.19941	0.000258881	0.00552	0.07552	1.44592	0.00204	19.7857	7.48432	0.41804	0.002022639	0.000647897	0.00030559	0.01935	0.007839482	0.12933	4.69949E-06
	January	0.4749	0.01965	0.19501	0.02801	0.000132966	0.001374823	223.996	0.00337	0.007761291	0.07908935	1.71796	0.03692	31.1444	0.26868	0.000355967	0.00784	0.10382	1.98542	0.00274	27.9502	10.5661	0.6095	0.002759099	0.000956924	0.00028354	0.03562	0.011668653	0.1793	6.49379E-06
	February	0.64208	0.02842	0.25336	0.03708	0.000170547	0.001942964	325.357	0.0047	0.011333966	0.10923557	2.39854	0.05113	45.1392	0.3845	0.000523881	0.01077	0.15086	2.93024	0.0039	39.8412	14.7121	0.84224	0.003843378	0.00119354	0.00025756	0.03743	0.015935321	0.24349	9.55794E-06
	March	0.56907	0.02447	0.22747	0.03254	0.000148494	0.001675531	279.64	0.00412	0.009735436	0.09529994	2.08721	0.04411	38.8029	0.33296	0.000449883	0.00934	0.12989	2.51538	0.00338	34.3162	12.7343	0.72711	0.003341508	0.001051325	0.00027077	0.03327	0.013754263	0.21238	8.20262E-06
	April	0.58299	0.02448	0.22981	0.02976	0.000116852	0.001604148	279.159	0.00424	0.009798458	0.09306312	2.05694	0.04031	38.5866	0.33672	0.000459833	0.00868	0.13117	2.58049	0.00339	33.2641	12.0485	0.66341	0.003257179	0.00083117	0.00027984	0.01265	0.012151614	0.19873	8.35303E-06
	May	0.33614	0.01266	0.13763	0.01605	5.7331E-05	0.000820341	143.251	0.00236	0.005032837	0.05012127	1.1007	0.02025	19.7828	0.17858	0.000237398	0.00449	0.06807	1.33218	0.00181	17.0125	6.22333	0.33404	0.001730724	0.000432187	0.00024293	0.00447	0.006027844	0.10537	4.29576E-06
	June	0.40235	0.01632	0.16026	0.01989	7.45866E-05	0.001061177	185.669	0.0029	0.006524369	0.06262268	1.38283	0.02639	25.6466	0.22638	0.000307103	0.00574	0.08762	1.72403	0.00228	22.0346	7.98251	0.43459	0.002182691	0.000539823	0.00022321	0.00625	0.007896847	0.13251	5.57047E-06
	July	0.38222	0.01488	0.15478	0.01859	6.82529E-05	0.000966558	168.688	0.00271	0.005925516	0.05812807	1.27919	0.02398	23.3014	0.20818	0.000279101	0.00527	0.07989	1.56631	0.0021	20.0473	7.30845	0.39526	0.002015454	0.000505182	0.00024929	0.00586	0.00716348	0.12272	5.05633E-06
	August	0.368	0.01404	0.15033	0.01788	6.57331E-05	0.00091487	159.017	0.00259	0.005581553	0.05548074	1.21815	0.02274	21.971	0.19732	0.000262753	0.00501	0.07539	1.47395	0.002	18.9478	6.9413	0.3751	0.001918728	0.000491521	0.00025758	0.00637	0.006805485	0.11733	4.75813E-06
	September	0.35842	0.01359	0.14672	0.01736	6.35034E-05	0.000885103	153.843	0.00252	0.005400328	0.05383617	1.18151	0.02199	21.2555	0.19127	0.000254268	0.00485	0.07298	1.42634	0.00193	18.3305	6.71991	0.36265	0.001860456	0.000476471	0.00025568	0.00608	0.006574597	0.11377	4.60346E-06
	October	0.41454	0.01623	0.16775	0.02038	7.60421E-05	0.001058355	184.154	0.00295	0.006464708	0.063417	1.39512	0.02637	25.4449	0.22675	0.000304135	0.00578	0.0871	1.70638	0.00229	21.9318	8.0055	0.43461	0.002200378	0.000560827	0.00026619	0.00742	0.007901608	0.13438	5.51206E-06
OutletSP04	November	0.23934	0.00022	0.0707	0.00567	1.30091E-05	7.93946E-05	0.57175	0.00013	4.81744E-05	0.00808496	0.31471	0.00035	0.32335	0.01762	2.18001E-06	0.00017	0.00077	0.02712	0.00044	0.51668	0.8317	0.017	8.91222E-06	6.74733E-05	0.00035356	0.00212	0.000137981	0.0087	3.53578E-09
	December	0.23934	0.00022	0.0707	0.00567	1.30091E-05	7.93946E-05	0.57175	0.00013	4.81744E-05	0.00808496	0.31471	0.00035	0.32335	0.01762	2.18001E-06	0.00017	0.00077	0.02712	0.00044	0.51668	0.8317	0.017	8.91222E-06	6.74733E-05	0.00035356	0.00212	0.000137981	0.0087	3.53578E-09
	January	0.23934	0.00022	0.0707	0.00567	1.30091E-05	7.93946E-05	0.57175	0.00013	4.81744E-05	0.00808496	0.31471	0.00035	0.32335	0.01762	2.18001E-06	0.00017	0.00077	0.02712	0.00044	0.51668	0.8317	0.017	8.91222E-06	6.74733E-05	0.00035356	0.00212	0.000137981	0.0087	3.53578E-09
	February	0.23934	0.00022	0.0707	0.00567	1.30091E-05	7.93946E-05	0.57175	0.00013	4.81744E-05	0.00808496	0.31471	0.00035	0.32335	0.01762	2.18001E-06	0.00017	0.00077	0.02712	0.00044	0.51668	0.8317	0.017	8.91222E-06	6.74733E-05	0.00035356	0.00212	0.000137981	0.0087	3.53578E-09
	March	0.23934	0.00022	0.0707	0.00567	1.30091E-05	7.93946E-05	0.57175	0.00013	4.81744E-05	0.00808496	0.31471	0.00035	0.32335	0.01762	2.18001E-06	0.00017	0.00077	0.02712	0.00044	0.51668	0.8317	0.017	8.91222E-06	6.74733E-05	0.00035356	0.00212	0.000137981	0.0087	3.53578E-09
	April	0.23934	0.00022	0.0707	0.00567	1.30091E-05	7.93946E-05	0.57175	0.00013	4.81744E-05	0.00808496	0.31471	0.00035	0.32335	0.01762	2.18001E-06	0.00017	0.00077	0.02712	0.00044	0.51668	0.8317	0.017	8.91222E-06	6.74733E-05	0.00035356	0.00212	0.000137981	0.0087	3.53578E-09
	May	1.08687	0.05037	0.403	0.05546	0.000215373	0.003254835	578.205	0.0082	0.020373074	0.18108704	4.05965	0.08075	79.8249	0.68008	0.000959623	0.01707	0.27048	5.39687	0.00681	67.9528	24.0266	1.32525	0.006413368	0.001438716	0.00020661	0.00968	0.024107568	0.38231	1.74611E-05
	June	1.106	0.0515	0.4105	0.05658	0.000219933	0.003326443	591.231	0.00839	0.020831877	0.18499512	4.1442	0.08256	81.6186	0.69502	0.000981226	0.01745	0.27657	5.51829	0.00696	69.4738	24.5508	1.35478	0.006557865	0.001469643	0.0002033	0.00985	0.024650274	0.39074	1.78552E-05
	July	1.09661	0.05094	0.40681	0.05603	0.000217698	0.003291257	584.818	0.0083	0.020606677	0.18307603	4.10271	0.08167	80.7388	0.68766	0.000970635	0.01727	0.27358	5.45882	0.00689	68.727	24.2933	1.34032	0.006486959	0.001454423	0.00020494	0.00977	0.024383682	0.38661	1.76617E-05
	August	1.06013	0.04878	0.39251	0.05389	0.000208983	0.003154562	559.97	0.00795	0.019731645	0.17562843	3.94148	0.07821	77.3166	0.65915	0.000929414	0.01654	0.26197	5.22744	0.00661	65.8259	23.2955	1.28398	0.00621123	0.001395491	0.00021125	0.00945	0.023351826	0.37052	1.69102E-05
	September	1.09769	0.05101	0.40723	0.05609	0.000217951	0.003295304	585.58	0.00831	0.020632166	0.18329208	4.1074	0.08177	80.8384	0.68848	0.000971838	0.01729	0.27392	5.46532	0.00689	68.813	24.3232	1.3419	0.006495013	0.001456128	0.00020475	0.00978	0.024414625	0.38708	1.7683E-05
	October	1.09637	0.05093	0.40672	0.05602	0.000217635	0.003290358	584.658	0.00829	0.020600235	0.18302519	4.10154	0.08165	80.712	0.68744	0.000970334	0.01726	0.2735	5.45696	0.00688	68.7074	24.2864	1.33989	0.006484985	0.001454058	0.00020498	0.00977	0.024376541	0.38649	1.76557E-05
Lake A	November	0.41195	0.0152	0.16137	0.01954	7.26021E-05	0.001000293	172.472	0.00273	0.006060524	0.0597326	1.33659	0.02472	23.8656	0.21322	0.000285018	0.0054	0.08148	1.60162	0.00219	20.5829	7.57513	0.40874	0.002040011	0.000524299	0.00027044	0.00704	0.007416505	0.12548	5.16412E-06
	December	0.41535	0.01544	0.16354	0.01996	7.52607E-05	0.001018639	175.177	0.00277	0.006150716	0.06077921	1.3562	0.0253	24.244	0.21631	0.00028891	0.00552	0.0827	1.62265	0.00222	20.9547	7.7218	0.41828	0.002079648	0.000544693	0.00027316	0.00824	0.007614545	0.12828	5.23606E-06
	January	0.42612	0.01606	0.16794	0.0208	7.9975E-05	0.0010632	182.375	0.00286	0.006398604	0.06313041	1.40629	0.02656	25.2456	0.22439	0.000300103	0.00577	0.08596	1.68491	0.0023	21.8646	8.06021	0.4389	0.002165557	0.000577203	0.00027295	0.00974	0.00802086	0.13392	5.44226E-06
	February	0.44816	0.01729	0.17641	0.0223	8.7775E-05	0.001147972	196.567	0.00305	0.00689158	0.06760659	1.50374	0.02885	27.2143	0.24041	0.000322729	0.00624	0.09245	1.81125	0.00246	23.6111	8.69496	0.47657	0.002328057	0.000629694	0.00027116	0.0117	0.008746372	0.14423	5.85727E-06
	March	0.46295	0.01811	0.18218	0.02332	9.30147E-05	0.001204966	206.117	0.00317	0.007223499	0.07063138	1.56936	0.0304	28.5414	0.25122	0.000337954	0.00656	0.09683	1.89624	0.00257	24.786	9.12211	0.50189	0.002438127	0.000665199	0.00027036	0.01302	0.009234332	0.1512	6.13648E-06
	April	0.49719	0.01992	0.19554	0.02515	9.98099E-05	0.001318729	226.902	0.00347	0.007956241	0.07698598	1.70808	0.03322	31.3996	0.27549	0.000372636	0.00716	0.10659	2.09101	0.0028	27.1983	9.9548	0.54785	0.002669559	0.00071187	0.00027208	0.01291	0.010064576	0.16464	6.7673E-06
	May	0.41476	0.01525	0.1589	0.01946	7.23381E-05	0.001005588	173.325	0.00269	0.006096377	0.05942314	1.3419	0.02474	23.9937	0.21337	0.000286763	0.00537	0.08174	1.61302	0.0022	20.658	7.59375	0.4094	0.002021613	0.000512013	0.00025489	0.00642	0.007420075	0.12428	5.19784E-06
	June	0.43532	0.01633	0.16474	0.02043	7.59511E-05	0.00107406	185.866	0.00283	0.006542296	0.06285462	1.42394	0.02637	25.7244	0.22741	0.000307926	0.0057	0.08754	1.73277	0.00234	22.0933	8.0809	0.43611	0.002143369	0.000530314	0.00024459	0.00589	0.007896847	0.1312	5.58388E-06
	July	0.42763	0.01591	0.16244	0.01998	7.37413E-05	0.001045889	181.032	0.00278	0.006372555	0.06146106	1.39143	0.02564	25.0536	0.22208	0.000300043	0.00555	0.08533	1.68844	0.00229	21.5138	7.87538	0.42419	0.002093782	0.000517358	0.0002482	0.00556	0.007672386	0.12815	5.43941E-06
	August	0.39555	0.01424	0.1515	0.01829	6.68983E-05	0.000937915	161.651	0.00253	0.005688271	0.05575971	1.26171	0.02297	22.3783	0.19996	0.000267808	0.005	0.07634	1.5069	0.00207	19.2516	7.09027	0.38038	0.001889118	0.000475193	0.00025433	0.00545	0.006873561	0.11613	4.85144E-06
	September	0.3952	0.01422	0.15153	0.01826	6.67181E-05	0.000936307	161.414	0.00253	0.005680148	0.05571014	1.26009	0.02292	22.3446	0.19975	0.000267447	0.00499	0.07624	1.5048	0.00207	19.2215	7.07901	0.37966	0.001887618	0.000474487	0.00025525	0.0054	0.006859041	0.11601	4.84456E-06
	October	0.41333	0.0152	0.15929	0.01935	7.12323E-05	0.00099954	172.688	0.0027	0.006074809	0.05930621	1.33626	0.02456	23.8976	0.21297	0.000285961	0.00534	0.08153	1.60831	0.00219	20.5575	7.54915	0.40626	0.002019797	0.000507325	0.00025887	0.00592	0.007351285	0.12391	5.18169E-06
Junction 26	May	0.34946	0.01189	0.13938	0.01604	5.74743E-05	0.000784155	134.269	0.00223	0.004716604	0.04829305	1.07932	0.01924	18.5872	0.16968	0.000222073	0.00427	0.06379	1.24775	0.00176	16.071	5.99205	0.31909	0.001628234	0.000428096	0.00028011	0.00572	0.005759824	0.10084	4.01453E-06
	June	0.36927	0.01291	0.14446	0.01693	6.07349E-05	0.000848759	146.1	0.00236	0.005138435	0.05143795	1.15677	0.02076	20.2213	0.18281	0.000242092	0.00457	0.06925	1.36145	0.00189	17.4195	6.44817	0.34398	0.001738383	0.00044261	0.00026809	0.00508	0.006201129	0.10706	4.3804E-06
	July	0.36301	0.01257	0.14258	0.01656	5.89496E-05	0.000825883	142.173	0.00231	0.005000625	0.05030556	1.13036	0.02017	19.6761	0.17847	0.000235693	0.00445	0.06746	1.3254	0.00185	16.9487	6.28126	0.33431	0.001698114	0.000432151	0.00027101	0.00481	0.006019275	0.10458	4.26288E-06
	August	0.34124	0.01143	0.13504	0.01542	5.43651E-05	0.000752769	129.011	0.00214	0.004535939	0.04641781	1.04235	0.01836	17.8603	0.16341	0.000213789	0.00408	0.06133	1.20206	0.0017	15.4141	5.74951	0.30467	0.001558276	0.000403561	0.00027457	0.00477	0.005479902	0.09639	3.86354E-06
	September	0.33967	0.01135	0.13467	0.01533	5.39217E-05	0.000747058	128.041	0.00213	0.004501487	0.04615473	1.03581	0.01821	17.7252	0.16237	0.000212204	0.00405	0.0609	1.19308	0.00169	15.298	5.70836	0.30228	0.001549116	0.000401284	0.00027577	0.00471	0.005434914	0.09582	3.83433E-06
	October	0.3601	0.01244	0.14269	0.01651	5.88991E-05	0.000817801	140.618	0.00231	0.004942925	0.05005455	1.12064	0.02002	19.46	0.17694	0.000232905	0.00443	0.06676	1.30908	0.00183	16.7853	6.23069	0.33183	0.001691165	0.00043545	0.00027661	0.00521	0.005980714	0.10431	4.21171E-06
Junction 27	May	0.35114	0.012	0.14041	0.01619	5.82115E-05	0.00079126	135.464	0.00225	0.004757499	0.04873216	1.08758	0.01945	18.7516	0.17112	0.000223919	0.00431	0.06435	1.25794	0.00177	16.2211	6.04746	0.32244	0.001644974	0.000434196	0.00028164	0.00596	0.005825043	0.10191	4.04849E-06
	June	0.36239	0.01255	0.14236	0.01657	5.91533E-05	0.000825344	141.968	0.00231	0.004992502	0.05025154	1.12902	0.02017	19.6494	0.17818	0.000235252	0.00445	0.06734	1.32286	0.00184	16.9335	6.27851	0.3344	0.001696298	0.000433502	0.00027054	0.00499	0.006024988	0.10455	4.25528E-06
	July	0.35629	0.01222	0.14052	0.01621	5.74121E-05	0.000803018	138.133	0.00226	0.004857774	0.04914648	1.10322	0.0196	19.1173	0.17394	0.000229014	0.00434	0.0656	1.28764	0.0018	16.4745	6.11574	0.32497	0.001656976	0.000423299	0.00027338	0.00474	0.005847418	0.10214	4.1406E-06
	August	0.33557	0.01114	0.13332	0.01512	5.30601E-05	0.00073349	125.612	0.0021	0.004415777	0.04544556	1.01951	0.01788	17.39	0.15961	0.000208172	0.00398	0.05977	1.17031	0.00166	15.0145	5.60973	0.2968	0.001523849	0.000396097	0.00027667	0.0047	0.005334704	0.09433	3.76061E-06
	September	0.33387	0.01105	0.13291	0.01502	5.25906E-05	0.000727364	124.566	0.00209	0.004379083	0.04516024	1.01247	0.01772	17.2446	0.15848	0.000206447	0.00395	0.0593	1.16065	0.00165	14.8898	5.56559	0.29424	0.0015139	0.000393662	0.00027792	0.00464	0.005286622	0.09372	3.72916E-06
Junction 28	n/a	0.35022	0.01196	0.14023	0.01615	5.80601E-05	0.000788348	134.939	0.00224	0.004738732	0.04859935	1.08406	0.01938	18.6789	0.17054	0.000223036	0.0043	0.06412	1.25289	0.00176	16.1613	6.02723	0.32133	0.001640473	0.000433685	0.00028238	0.00599	0.005805287	0.10165	4.03222E-06
	May	0.1793	0.00308	0.0865	0.00691	1.73611E-05	0.000201794	31.8003	0.00099	0.001101913	0.01870667	0.38942	0.00468	4.40431	0.05468	5.27772E-05	0.00133	0.01667	0.29315	0.00059	3.99702	1.76371	0.07987	0.00057794	0.000194098	0.00033744	0.003	0.001345506	0.03797	9.18685E-07
	June	0.17593	0.0029	0.0851	0.00668	1.61967E-05	0.000189271	29.7038	0.00096	0.001029199	0.01802101	0.37482	0.00434	4.11362	0.05227	4.94394E-05	0.00126	0.01571	0.27456	0.00056	3.73815	1.66915	0.07428	0.000553004	0.000185903	0.00033693	0.0027	0.001237893	0.03639	8.57585E-07
	July	0.17857	0.00303	0.08591	0.00681	1.6732E-05	0.00019795	31.2588	0.00098	0.001084239	0.0184671	0.38526	0.00455	4.32872	0.05403	5.20351E-05	0.0013	0.01643	0.28921	0.00058	3.91921	1.73182	0.07777	0.00056878	0.000188959	0.00033613	0.00269	0.001301137	0.03732	9.0495E-07
	August	0.17444	0.00282	0.08446	0.0066	1.58705E-05	0.000184089	28.758	0.00095	0.000995952	0.01772552	0.36854	0.0042	3.98383	0.05116	4.78708E-05	0.00123	0.01526	0.26577	0.00055	3.62777	1.63094	0.07216	0.000542076	0.000183529	0.0003367	0.00269	0.001199142	0.03575	8.29035E-07
	September	0.17345	0.00277	0.08419	0.00654	1.56271E-05	0.000180661	28.1612	0.00094	0.000974916	0.01755776	0.36453	0.00412	3.90095	0.0505	4.68879E-05	0.00121	0.01499	0.26022	0.00054	3.55724	1.60618	0.07074	0.000536178	0.000182189	0.00033721	0.00267	0.001172935	0.0354	8.11015E-07
	October	0.1821	0.00322	0.08723	0.00702	1.76828E-05	0.000210417	33.4311	0.00101	0.00116037	0.01913497	0.40002	0.00487	4.62913	0.05651	5.55815E-05	0.00137	0.01743	0.3091	0.0006	4.17883	1.82396	0.08305	0.00059295	0.000195267	0.00033592	0.00283	0.001399896	0.03879	9.69766E-07

Notes: [a] Regulation criteria applies to total concentrations.

CCME criteria for:

Aluminium depends on pH conditions. Values are provided for reference given [b] pH<6.5 and [c] pH>=6.5

Cadmium depends on hardness concentrations. Values are provided for reference given a hardness of [d] 0--17, [e] >=280 and [f] 40 mg/L.

Copper depends on hardness concentrations. Values are provided for reference given a hardness of [g] 0--82 and [h] >=180 mg/L.

Manganese depends on hardness concentrations and pH conditions. Values are provided for reference given a hardness of [i] 10-24 and [j] >=670 mg/L and pH of [i] 6.7-6.9 and [j] 6.5-6.7.

Nickel depends on hardness concentrations. Values are provided for reference given a hardness of [k] <=60 and [l] >=180 mg/L.

Lead depends on hardness concentrations. Values are provided for reference given a hardness of [m] <=60 and [n] >=180 mg/L.

Zinc depends on hardness and DOC concentrations, and pH conditions. Values are provided for reference given a pH of [o,p,q] 6.5-6.7, [o,p,q] DOC 8 mg/L and hardness [o] 8, [p] 399, and [q] 38 mg/L.

Table S: General Chemsitry. Climate change conditions. Mineral precipitation was allowed. Effluent pH of 6.5

Regulation		Hardness mg/L	pH n/a	Alk mg/L	DOC mg/L	F mg/L	Si mg/L	Sulphate mg/L	Cl mg/L	Nitrate as N mg/L	Nitrite as N mg/L	Total Ammonia as N mg/L
MDMER												0.5[a]
CCME (long-term)			6.5-9							2.935483871	0.059956522	0.019[a]
CCME (long-term)												
CCME (long-term)												
Station	**Time**	**Effluent**										
Effluent	n/a	1851.818833	6.5	37.69010245	8.912862	1.002545735	52.62468347	1589.21664	40.09395	5.776351443	0.039825579	0.11905348
	n/a	1825.699319	6.00284	6.6517451	8.9127423	0.013341629	52.62408261	1589.12058	40.09395	5.776351443	0.039825579	0.11905348
	n/a	1825.799394	5.34692	7.72356585	8.9127423	0.014089976	52.62408261	1589.02452	40.09395	5.776351443	0.039825579	0.11905348
		Year 21 Historical Conditions										
Junction 2	November	49.43526076	6.73781	4.95937442	9.0681129	0.006033133	2.733289395	40.8082092	1.05641	0.140426714	0.000968185	0.002894264
	December	398.85189	6.13171	5.4246192	9.1216188	0.00309712	12.5632772	345.450972	8.737716	1.207944315	0.008328282	0.024896334
	January	385.0722531	6.14724	5.41045505	9.1375389	0.003002128	12.17812914	333.433866	8.434973	1.165847121	0.008038039	0.02402869
	February	4.568156363	6.90502	4.96014519	9.1987056	0.005910593	1.49186288	1.6700031	0.069996025	0.003227965	2.22555E-05	6.653E-05
	March	665.503727	5.89401	5.84849265	9.0949257	0.005016718	20.05173306	577.84893	14.5972465	0.316674567	0.002183342	0.006526821
	April	4.568146354	7.57243	5.0131081	9.1988253	0.005910783	1.491922965	1.6700031	0.069996025	0.199909139	0.001378292	0.004120227
	May	271.7317612	7.1486	4.307448145	7.5940074	0.002045558	8.76407103	235.030002	5.94851	0.884293241	0.00609684	0.018225724
	June	368.1451861	7.0134	4.69674205	8.1410364	0.002750969	11.55444165	318.938412	8.0659385	1.189634487	0.008202043	0.024518959
	July	230.5799952	7.06892	4.60272813	8.2333251	0.001752926	7.7029611	199.017108	5.042408	0.75738526	0.005221861	0.015610087
	August	191.2126063	7.12395	4.612382775	8.3296836	0.001468007	6.611207565	164.675658	4.1770735	0.633965533	0.004370933	0.013066345
	September	352.4680846	7.07414	4.78853375	8.3469204	0.002639068	11.14465854	305.221044	7.7206555	1.141149167	0.007867756	0.023519653
	October	329.9366918	7.16494	4.838578745	8.4873285	0.002476822	10.5323873	285.547956	7.2250645	1.070823737	0.007382891	0.02207021
Junction 3	November	254.6896195	6.41137	6.2278216	8.7862194	0.002420397	8.565188025	219.958188	5.557851	0.796736681	0.005493173	0.01642114
	December	855.0400804	6.08646	9.83667685	8.5095927	0.006291131	25.63007088	743.446764	18.7214995	2.695341153	0.018583274	0.055552323
	January	1307.379274	5.95774	12.1068948	8.2299735	0.009567216	38.4427029	1137.8307	28.645018	4.11641915	0.028381025	0.084841449
	February	1340.65496	5.94541	12.18262045	8.2218339	0.009808496	39.37823414	1166.84082	29.375288	4.218685212	0.029086108	0.086949203
	March	1349.511795	5.92974	11.9803684	8.2519983	0.00987385	39.61256759	1174.52562	29.573099	2.098975909	0.01447158	0.043260939
	April	408.5963851	7.11998	5.2960908	9.0470457	0.003056463	12.7621602	354.499824	8.9571515	1.272834233	0.008775671	0.026233747
	May	502.0705537	6.93404	4.225165945	6.9088446	0.003713048	15.10369214	436.198854	11.0146695	1.61398261	0.01112775	0.033264985
	June	473.5515233	6.94974	4.49840391	7.3978191	0.003512615	14.33760201	411.540252	10.389686	1.535952204	0.010589762	0.03165674
	July	392.9533108	6.98323	4.505566065	7.5885012	0.002928794	12.10963167	341.176302	8.6175405	1.281029527	0.008832174	0.026402656
	August	532.6111128	6.93031	4.80266787	7.8498063	0.003945968	16.06205586	462.932352	11.686447	1.72395365	0.011885955	0.035531543
	September	561.8336718	6.93305	4.782823045	7.7619465	0.004157041	16.87260926	488.397858	12.3284465	1.814872382	0.012512802	0.037405424
	October	511.3877352	7.00953	4.802782985	7.9242597	0.003791891	15.4900419	444.306318	11.2188615	1.654188583	0.011404953	0.03409365
Junction 4	November	254.1472008	6.41073	6.21205585	8.7674265	0.00238278	8.54656152	219.487494	5.545798	0.795728029	0.005486219	0.016400351
	December	854.8599405	6.08613	9.8330232	8.5079169	0.006289801	25.62526404	743.293068	18.7179545	2.695621334	0.018585206	0.055558098
	January	1307.369265	5.95746	12.10504295	8.2298538	0.009567026	38.44210205	1137.8307	28.6446635	4.117119602	0.028385855	0.084855885
	February	1340.65496	5.94514	12.18091875	8.2218339	0.009808496	39.37823414	1166.84082	29.375288	4.219385665	0.029090937	0.08696364
	March	1349.511795	5.92947	11.9786667	8.2519983	0.00987385	39.61256759	1174.52562	29.573099	4.240959601	0.029239681	0.087408289
	April	408.5963851	7.11848	5.2968916	9.0470457	0.003056463	12.7621602	354.499824	8.9571515	1.33700969	0.009218135	0.027556436
	May	489.5018518	6.9335	4.12020609	6.7359978	0.003620146	14.72575434	425.286438	10.739223	1.573496457	0.010848614	0.032430546
	June	465.386221	6.94855	4.421692275	7.2703386	0.00345201	14.09065061	404.451024	10.2106635	1.5094751	0.010407213	0.031111034
	July	386.4362805	6.9816	4.43165723	7.4626965	0.002880158	11.9089461	335.518368	8.474677	1.259791808	0.008685749	0.025964937
	August	525.5636729	6.9291	4.73992519	7.7460264	0.003893723	15.84995405	456.803724	11.531885	1.701118899	0.011728519	0.035060908
	September	554.1677543	6.9302	4.718378665	7.656012	0.004100425	16.64248179	481.731294	12.1604135	1.790076365	0.012341844	0.036894365
	October	505.9785599	7.00849	4.752763015	7.84035	0.003751615	15.32600849	439.599378	11.100104	1.636677271	0.01128422	0.033732734
Junction 5	November	253.9880781	6.41004	6.20574955	8.76204	0.002347823	8.541153825	219.35301	5.5426075	0.795938165	0.005487668	0.016404682
	December	854.7898868	6.08579	9.8304206	8.507079	0.006289041	25.62286062	743.225826	18.716182	2.696041606	0.018588103	0.05556676
	January	1307.369265	5.95719	12.10324115	8.2297341	0.009567026	38.44210205	1137.8307	28.644309	4.117820055	0.028390684	0.084870322
	February	1340.65496	5.94487	12.17921705	8.2218339	0.009808496	39.37823414	1166.84082	29.375288	4.220086117	0.029095767	0.086978076
	March	1349.511795	5.92919	11.976965	8.2519983	0.00987366	39.61256759	1174.52562	29.573099	4.241660054	0.02924451	0.087422726
	April	408.5963851	7.11697	5.2976924	9.0470457	0.003056463	12.7621602	354.499824	8.9571515	1.33700969	0.009218135	0.027556436
	May	484.8682751	6.93225	4.08198791	6.6721977	0.003585949	14.58635598	421.261524	10.6374815	1.558646864	0.010746232	0.032124488
	June	462.3428718	6.94714	4.39356918	7.2228177	0.003429592	13.99811894	401.799768	10.1440175	1.499528675	0.010338637	0.030906033
	July	383.9983989	6.98007	4.404535135	7.4157741	0.002862109	11.83383923	333.405048	8.4211475	1.251848677	0.008630984	0.025801225
	August	522.9266374	6.92774	4.71688217	7.7070042	0.003874154	15.77004033	454.50789	11.473747	1.692573379	0.011669601	0.03488478
	September	551.2955371	6.93084	4.694735045	7.6163913	0.004079147	16.55655953	479.24334	12.0973125	1.780830392	0.012278097	0.036703801
	October	503.9339818	7.00716	4.73440968	7.8087492	0.003736606	15.26412042	437.831874	11.055437	1.630093018	0.011238824	0.033597029
Junction 6	November	253.9880781	6.40935	6.2032971	8.76204	0.002315905	8.541153825	219.35301	5.5426075	0.796638618	0.005492497	0.016419119
	December	854.7898868	6.08545	9.8287189	8.507079	0.006288851	25.62286062	743.225826	18.716182	2.696742058	0.018592933	0.055581197
	January	1307.369265	5.95692	12.10153945	8.2297341	0.009567026	38.44210205	1137.8307	28.644309	4.118520507	0.028395513	0.084884759
	February	1340.65496	5.9446	12.17751535	8.2218339	0.009808496	39.37823414	1166.84082	29.375288	4.22078657	0.029100596	0.086992513
	March	1349.511795	5.92891	11.9752633	8.2519983	0.00987366	39.61256759	1174.52562	29.573099	4.242360506	0.029249339	0.087437163
	April	408.5963851	7.11548	5.2984932	9.0470457	0.003056463	12.7621602	354.499824	8.9571515	1.33700969	0.009218135	0.027556436
	May	484.8682751	6.9306	4.082783705	6.6721977	0.003585949	14.58635598	421.261524	10.6374815	1.558646864	0.010746232	0.032124488
	June	462.3428718	6.9456	4.39436998	7.2228177	0.003429592	13.99811894	401.799768	10.1440175	1.499528675	0.010338637	0.030906033
	July	383.9983989	6.97862	4.405335935	7.4157741	0.002862109	11.83383923	333.405048	8.4211475	1.251848677	0.008630984	0.025801225
	August	522.9266374	6.92631	4.717677965	7.7070042	0.003874154	15.77004033	454.50789	11.473747	1.692573379	0.011669601	0.03488478
	September	551.2955371	6.92935	4.695535845	7.6163913	0.004079147	16.55655953	479.24334	12.0973125	1.780830392	0.012278097	0.036703801
	October	503.9339818	7.00565	4.735205475	7.8087492	0.003736606	15.26412042	437.831874	11.055437	1.630093018	0.011238824	0.033597029
OutletSP04	November	1821.876368	5.37615	7.699692	8.9131014	0.014154	52.51713042	1585.75848	40.00887	5.554308006	0.038294681	0.114477054
	December	2.759337305	6.49727	3.062134075	9.0881028	0.044332774	1.491922965	2.51946168	0.47995755	0.050906085	0.000350977	0.0010492
	January	2.759337305	6.49727	3.062134075	9.0881028	0.044332774	1.491922965	2.51946168	0.47995755	0.050906085	0.000350977	0.0010492
	February	2.759337305	6.49727	3.062134075	9.0881028	0.044332774	1.491922965	2.51946168	0.47995755	0.050906085	0.000350977	0.0010492
	March	2.759337305	6.49727	3.062134075	9.0881028	0.044332774	1.491922965	2.51946168	0.47995755	0.050906085	0.000350977	0.0010492
	April	2.759337305	7.04478	2.184437255	9.0881028	0.044332774	1.491922965	2.51955774	0.47995755	0.064734418	0.000446317	0.001334209
	May	1767.54443	6.02497	6.4755691	8.9183682	0.012917964	50.99336214	1538.49696	38.828385	5.594233798	0.038569953	0.115299944
	June	1755.715299	6.03244	6.43928285	8.9195652	0.012831521	50.66108933	1528.21854	38.573145	5.557109816	0.038313998	0.114534801
	July	1750.191037	6.04374	6.4218154	8.920044	0.012791625	50.50727045	1523.41554	38.452615	5.539878685	0.038195196	0.114179658
	August	1728.874583	6.04415	6.3576513	8.9220789	0.012636218	49.90941972	1504.87596	37.98822	5.473055518	0.037734478	0.1128024
	September	1558.653196	6.06555	5.8443385	8.9384778	0.011396762	45.13863102	1356.8475	34.293621	4.940151269	0.034060321	0.101818978
	October	1753.643702	6.04725	6.4319255	8.9196849	0.012816893	50.60460896	1526.48946	38.52706	5.550805744	0.038270534	0.114404871
Lake A	November	542.0584444	6.20302	4.703844145	8.0513811	0.004018732	16.4393928	471.183906	11.947359	1.753372654	0.012088787	0.036137884
	December	601.2741606	6.13588	5.45029485	8.1287073	0.004453036	18.16564922	522.71049	13.2324215	1.951040345	0.013451625	0.040211913
	January	707.2960085	6.06066	6.2789727	8.1496548	0.005223231	21.20297124	615.062574	15.547661	2.297624233	0.015841179	0.04735518
	February	795.7142661	6.01521	6.94648955	8.1654552	0.005863857	23.73437336	692.093088	17.4793315	2.586210656	0.017830864	0.05330309
	March	884.7429943	5.97593	7.57391635	8.1858042	0.006509043	26.28019599	769.661538	19.425182	2.875777713	0.01982731	0.059271211
	April	687.0303487	6.89729	6.56360705	8.5644153	0.005068964	20.66400431	597.262656	15.078303	2.235704234	0.015414266	0.046078978
	May	544.1600806	6.75724	4.13036624	7.4976489	0.004014553	16.43398511	473.38368	12.034566	1.758836184	0.012126456	0.03625049
	June	572.7621536	6.68755	4.02060659	7.5132099	0.004223155	17.21509661	498.349674	12.66274	1.846953106	0.012733986	0.038066623
	July	497.3089066	6.71852	3.837318485	7.5094992	0.003675431	15.08446478	432.635028	11.008643	1.608799262	0.011092012	0.033158154
	August	519.8252822	6.74412	3.93956563	7.6204611	0.003840907	15.72137108	452.231268	11.4967895	1.680525596	0.011586536	0.034636469
	September	486.2883928	6.80665	3.85642257	7.5834738	0.003597158	14.76841505	423.057846	10.7622655	1.575457724	0.010862136	0.032470968
	October	494.6878746	6.87053	3.97669272	7.6760019	0.003659852	15.01716902	430.281558	10.937034	1.601234375	0.011039856	0.033002238
Junction 26	May	425.8097156	6.78969	4.50597147	7.9985934	0.003162664	13.18035528	369.869424	9.400631	1.385901273	0.009555222	0.028564115
	June	447.7806725	6.76435	4.20804384	7.8839208	0.003320921	13.75777694	389.129454	9.8937405	1.451757815	0.010009276	0.029921452
	July	390.0851342	6.78979	4.062893835	7.8769782	0.002902006	12.12765732	338.890074	8.6288845	1.269696206	0.008754036	0.026169071
	August	410.3958085	6.78225	4.13825412	7.9556211	0.003050954	12.70027214	356.584326	9.070946	1.334319952	0.00919959	0.027500999
	September	383.3439252	6.77947	4.075276205	7.9284492	0.00285451	11.93237945	333.04002	8.478222	1.249607229	0.00861553	0.025755027
	October	405.1707726	6.84625	4.14121708	7.954065	0.003013527	12.54765497	352.021476	8.9528975	1.317971391	0.009086873	0.027164047
Junction 27	May	436.560013	6.80512	4.655005355	8.0635905	0.003241698	13.49580416	379.187244	9.6307015	1.421218087	0.009798717	0.029292013
	June	434.8096592	6.77481	4.228168945	7.9223445	0.003227259	13.39846565	377.794374	9.606241	1.4107113	0.009726277	0.029075462
	July	378.9515394	6.79965	4.08696288	7.9151625	0.002821643	11.82001956	329.14959	8.381798	1.234463446	0.00851112	0.025442906
	August	399.0170246	6.79184	4.159520365	7.9904538	0.00296888	12.38602497	346.63251	8.818542	1.298330704	0.008951459	0.026759242
	September	372.6436652	6.77651	4.09870461	7.9643592	0.002777187	11.63735964	323.683776	8.240707	1.215733347	0.008381984	0.02505687
	October	395.815551	6.84333	4.159109955	7.9830324	0.002946082	12.28988817	343.84677	8.745515	1.288384278	0.008882882	0.026554242
Junction 28	May	88.32918983	6.9925	4.88181694	8.988273	0.001994262	3.823721049	74.9383272	1.924935	0.316282314	0.002180637	0.006518736
	June	85.53603342	7.01957	4.77844367	8.9582283	0.001696367	3.735395364	72.5377878	1.866797	0.306363907	0.002112254	0.006314313
	July	82.03933408	7.02953	4.740350615	8.9328519	0.001811308	3.631687791	69.5128584	1.7919975	0.295352794	0.002036337	0.006087368
	August	84.51924761	7.02439	4.755115365	8.95356	0.001690288	3.702648767	71.6713266	1.84534975	0.303295925	0.002091101	0.00625108
	September	77.86310883	7.00134	4.763563805	8.9527221	0.002386009	3.514280724	65.8577754	1.69872855	0.282338387	0.001946608	0.005819135
	October	92.12912126	6.95144	4.751721975	8.9265078	0.002193366	3.910664768	78.3167574	2.01338275	0.327377481	0.002257134	0.006747413

Notes: [a] Regulatory criteria is for un-ionized ammonia

Table T: Dissolved Metals. Climate change conditions. Mineral precipitation was allowed. Effluent pH of 6.5

Regulation[a]		Al mg/L	As mg/L	B mg/L	Ba mg/L	Be mg/L	Cd mg/L	Ca mg/L	Cr mg/L	Co mg/L	Cu mg/L	Fe mg/L	Li mg/L	Mg mg/L	Mn mg/L	Hg mg/L	Mo mg/L	Ni mg/L	P mg/L	Pb mg/L	K mg/L	Na mg/L	Sr mg/L	Se mg/L	Sb mg/L	Tl mg/L	Ti mg/L	U mg/L	Zn mg/L	Sn mg/L
MDMER			0.1								0.1							0.25		0.08									0.4	
Directive 019 (2025)			0.1								0.1	3						0.25		0.08									0.4	
CVAC (hardness 10mg/L)			0.15		0.038	0.000138	0.00005			0.1	0.0013	0.65	0.44		0.26	0.00091	3.2	0.007		0.00017			21	0.005	0.24	0.0072		0.014	0.017	
CVAA (hardness 10mg/L)			0.34		0.11	0.00124	0.0002			0.37	0.0016	3.4	0.91		0.6	0.0016	29	0.07		0.004			40	0.062	1.1	0.047		0.32	0.017	
CVAC (hardness 90mg/L)					0.391	0.005583018	0.000250301				0.00853				1.75906			0.04771		0.002782244									0.10958	
CVAA (hardness 90mg/L)					1.12	0.050245928	0.001916511				0.01268				3.79535			0.42916		0.071397133									0.10958	
CVAC (hardness 400mg/L)					1.911	0.068822	0.0076				0.0305				6.52			0.169		0.01858									0.388	
CVAA (hardness 400mg/L)					5.45	0.61939	0.0087				0.0517				14.1			1.52		0.477									0.388	
CCME (long-term)		0.005[b]	0.005	1.5			0.00004[d]				0.002[g]	0.3			0.23[i]	0.000026	0.073	0.025[k]		0.001[m]				0.001		0.0008		0.015	0.02[o]	
CCME (long-term)		0.1[c]					0.00037[e]				0.004[h]				1.2[j]			0.15[l]		0.007[n]									0.312[p]	
CCME (long-term)							0.00007[f]																						0.037[q]	
Station	**Time**															**Effluent**														
Effluent	n/a	1.12486	0.05261	0.41789	0.05769	0.000224439	0.003397151	604.096	0.00856	0.021283959	0.18885	4.22752	0.08435	83.388	0.70974	0.001002549	0.01783	0.28257	5.63753	0.007097429	70.9751	25.068	1.38387	0.006700388	0.001500205	0.00020003	0.01002	0.025183459	0.39906	1.82434E-05
	n/a	1.12486	0.05261	0.41788	0.00313	0.000224439	0.00339524	593.635	0.00856	0.021279757	0.13226	0.0626	0.08435	83.388	0.70969	0.001002529	0.01783	0.28237	0.55558	0.000731271	70.9751	25.0657	1.38387	0.006700388	0.001500205	0.00020003	0.01002	0.025183459	0.39813	1.82434E-05
	n/a	1.12486	0.05261	0.41789	0.00314	0.000224439	0.003396589	593.675	0.00856	0.021283118	0.17849	0.22965	0.08435	83.388	0.70974	0.001002529	0.01783	0.28252	0.55734	0.001496647	70.9751	25.0657	1.38387	0.006700388	0.001500205	0.00020003	0.01002	0.025183459	0.39884	1.82434E-05
																Year 21 Historical Conditions														
Junction 2	November	0.11249	0.00175	0.07832	0.00411	1.07299E-05	0.000112358	16.0741	0.00081	0.000556839	0.01082	0.02442	0.00242	2.25796	0.03735	2.73625E-05	0.00088	0.0096	0.0216	0.000195222	2.15627	1.10951	0.0427	0.000420802	0.000155975	0.00034508	0.00229	0.000654556	0.02841	4.5346E-07
	December	0.31247	0.01176	0.14577	0.00396	5.28276E-05	0.000758839	129.68	0.00234	0.004635095	0.04381	0.04804	0.01854	18.2224	0.16983	0.000219265	0.00422	0.06332	0.1041	0.000440196	15.7003	5.82791	0.30666	0.001658792	0.00042157	0.00031976	0.00383	0.005480854	0.10148	3.95376E-06
	January	0.30476	0.01137	0.14325	0.00397	5.11775E-05	0.000733389	125.2	0.00228	0.004474317	0.04251	0.04691	0.01791	17.5932	0.16465	0.000211703	0.00409	0.06121	0.09977	0.000429795	15.167	5.64284	0.29627	0.001610468	0.000411342	0.00032145	0.00377	0.005290669	0.09864	3.8157E-06
	February	0.08809	0.00047	0.0707	0.0042	5.39875E-06	2.96908E-05	1.48521	0.00063	3.3035E-05	0.00675	0.02201	0.00035	0.20874	0.02063	2.73344E-06	0.00046	0.00273	0.00822	0.000167235	0.42136	0.51056	0.0089	0.000265621	0.000123672	0.0003536	0.00212	3.46165E-05	0.01931	3.53566E-09
	March	0.46441	0.0194	0.19672	0.00346	8.49038E-05	0.001251842	216.385	0.00351	0.007746166	0.06908	0.072	0.03084	30.4007	0.27075	0.000365635	0.00676	0.10429	0.18775	0.000646278	26.0301	9.42374	0.50798	0.002601258	0.000623289	0.00029787	0.00499	0.009162685	0.15708	6.62402E-06
	April	0.12906	0.00047	0.0707	0.0042	5.39875E-06	2.96357E-05	1.48521	0.00063	3.30294E-05	0.00391	0.01847	0.00035	0.20874	0.02062	2.73344E-06	0.00046	0.00272	0.00911	0.000149008	0.42136	0.51056	0.0089	0.000265629	0.000123672	0.0003536	0.00212	3.46165E-05	0.01911	3.53566E-09
	May	0.2537	0.00807	0.10979	0.00333	3.67201E-05	0.000519993	88.3479	0.00169	0.003154486	0.0221	0.02026	0.01266	12.4155	0.11853	0.000149419	0.00294	0.04342	0.06895	0.000255892	10.7337	4.03792	0.20975	0.001167582	0.000305252	0.00027093	0.00292	0.003729913	0.07166	2.68748E-06
	June	0.31415	0.01085	0.13243	0.00353	4.86135E-05	0.000699474	119.697	0.00215	0.004278247	0.02892	0.02136	0.01711	16.8193	0.15617	0.000202375	0.00388	0.05835	0.098	0.000286951	14.484	5.36558	0.28289	0.001523533	0.00038548	0.00028444	0.00347	0.005059781	0.09284	3.65057E-06
	July	0.23991	0.00691	0.10675	0.00364	3.21059E-05	0.000445418	74.9659	0.00155	0.002673218	0.01945	0.02082	0.01077	10.5367	0.10427	0.000126853	0.00257	0.03724	0.05444	0.000241616	9.15682	3.51422	0.17908	0.001039429	0.000282434	0.00029877	0.00289	0.003160072	0.06435	2.27258E-06
	August	0.21963	0.00579	0.09993	0.0037	2.74187E-05	0.000372877	62.165	0.00138	0.002213742	0.01673	0.02039	0.00895	8.73886	0.08956	0.000105244	0.0022	0.03122	0.04179	0.000226905	7.63433	2.98775	0.14941	0.00090275	0.000253857	0.00030555	0.00274	0.002616176	0.05633	1.87787E-06
	September	0.30837	0.01041	0.131	0.00363	4.68354E-05	0.000670977	114.599	0.00209	0.004094782	0.02781	0.02084	0.01639	16.1035	0.15066	0.00019377	0.00374	0.05599	0.09255	0.000278083	13.8822	5.16419	0.27118	0.00147363	0.000376287	0.00029358	0.00345	0.004842698	0.08998	3.49269E-06
	October	0.29796	0.00977	0.12774	0.00371	4.41975E-05	0.000629642	107.273	0.002	0.003831768	0.0262	0.02018	0.01536	15.0744	0.14242	0.000181402	0.00353	0.05256	0.0851	0.00026648	13.0131	4.86693	0.25425	0.00139775	0.000361043	0.00030075	0.00338	0.004531118	0.08555	3.26631E-06
Junction 3	November	0.22605	0.00762	0.11621	0.00383	4.25555E-05	0.000507392	82.7651	0.00167	0.002935448	0.03002	0.02929	0.01274	11.6623	0.11391	0.000137673	0.00298	0.04078	0.03263	0.00046562	10.338	4.02643	0.21198	0.001162212	0.000359959	0.00032233	0.00785	0.003851546	0.07387	2.47344E-06
	December	0.56373	0.02479	0.23075	0.00307	0.000131452	0.001653273	277.881	0.00424	0.009898174	0.08536	0.0517	0.04241	39.1383	0.33919	0.000461618	0.00906	0.13224	0.1492	0.000842931	34.1266	12.4823	0.69838	0.003330454	0.000931708	0.00027438	0.02137	0.012975432	0.20576	8.3985E-06
	January	0.81784	0.03772	0.3163	0.00256	0.000195907	0.002511104	424.907	0.00617	0.015150889	0.12745	0.06453	0.06447	59.8316	0.50902	0.000706518	0.01358	0.20124	0.24866	0.001128971	51.9695	18.7951	1.05985	0.004954503	0.001343622	0.00023408	0.02991	0.019726408	0.30395	1.28765E-05
	February	0.83672	0.03867	0.32262	0.00253	0.000200061	0.002572932	435.728	0.00631	0.015538548	0.13067	0.06538	0.06602	61.3507	0.52158	0.000724732	0.0139	0.20634	0.25826	0.00115342	53.2636	19.2468	1.08526	0.00507239	0.001369922	0.00023126	0.03015	0.020193659	0.31094	1.32089E-05
	March	0.84226	0.03893	0.32443	0.00253	0.000199737	0.002586421	438.614	0.00636	0.015645826	0.13153	0.06981	0.06626	61.7517	0.52513	0.000730067	0.01396	0.20777	0.26702	0.001165044	53.5608	19.3369	1.0892	0.005100263	0.001367	0.00023091	0.02928	0.020246263	0.31225	1.3305E-05
	April	0.34307	0.01205	0.14753	0.00375	5.7979E-05	0.000785954	132.931	0.00237	0.004744894	0.0324	0.02051	0.01948	18.6179	0.17321	0.000223578	0.0044	0.06467	0.09357	0.000430707	16.2238	6.05022	0.32222	0.001705457	0.000456734	0.00031837	0.00643	0.005819569	0.10477	4.0365E-06
	May	0.36792	0.01464	0.14899	0.00285	6.60133E-05	0.000948864	163.286	0.00265	0.005841205	0.03852	0.02198	0.02351	22.9106	0.20428	0.00027535	0.00515	0.0786	0.13654	0.000047915	19.7102	7.1574	0.38723	0.001970605	0.00048469	0.00022762	0.00502	0.007010427	0.11919	4.98974E-06
	June	0.35562	0.01385	0.1475	0.00324	6.51977E-05	0.000902819	154.06	0.00255	0.005505366	0.0364	0.02037	0.02249	21.5794	0.1944	0.000259122	0.00495	0.07427	0.11685	0.000461621	18.7054	6.8521	0.37083	0.001891329	0.000486346	0.00024998	0.00652	0.006735028	0.11517	4.69308E-06
	July	0.31477	0.01155	0.13343	0.00336	5.50698E-05	0.000753061	127.841	0.00221	0.00456535	0.03097	0.0206	0.01871	17.9055	0.1643	0.000215012	0.00418	0.06195	0.09315	0.000438995	15.5686	5.7617	0.30901	0.001609521	0.00042398	0.00026333	0.00587	0.005594632	0.09853	3.88716E-06
	August	0.39409	0.01556	0.16228	0.00342	7.26733E-05	0.001013356	173.265	0.00284	0.006193571	0.04088	0.02228	0.02523	24.2758	0.2177	0.000291517	0.00554	0.08344	0.13392	0.0004921	21.0106	7.67398	0.41597	0.00211297	0.000537936	0.00026282	0.00696	0.007555752	0.12843	5.28212E-06
	September	0.40915	0.01639	0.1672	0.0033	7.59817E-05	0.001066775	182.764	0.00296	0.006534733	0.04275	0.02198	0.02656	25.6126	0.22859	0.000307605	0.00581	0.08791	0.14399	0.00049813	22.1343	8.06021	0.43764	0.002213407	0.00055577	0.00025705	0.00696	0.007951118	0.13428	5.57569E-06
	October	0.38462	0.01495	0.15868	0.00326	6.93442E-05	0.00097237	166.348	0.00275	0.00594623	0.03923	0.02145	0.02416	23.3165	0.20984	0.000280084	0.00532	0.08022	0.13032	0.000476933	20.1603	7.37213	0.39831	0.002037089	0.000517005	0.00026688	0.00636	0.007221083	0.12382	5.07224E-06
Junction 4	November	0.22557	0.0076	0.11596	0.00382	4.24645E-05	0.00050647	82.5887	0.00167	0.00292928	0.03042	0.02923	0.01272	11.6375	0.11367	0.000137378	0.00298	0.04069	0.03358	0.000612007	10.3157	4.01792	0.21153	0.001159686	0.000359192	0.00032164	0.00784	0.003843215	0.07377	2.4681E-06
	December	0.56359	0.02478	0.23071	0.00307	0.000131425	0.00165316	277.825	0.00424	0.009896213	0.0858	0.05169	0.0424	39.1286	0.33913	0.00046157	0.00906	0.13221	0.15035	0.000990147	34.1195	12.4798	0.69824	0.003329822	0.000931513	0.0002734	0.02136	0.012972814	0.20578	8.39683E-06
	January	0.81784	0.03772	0.31629	0.00256	0.000195898	0.002511329	424.907	0.00617	0.015150889	0.1279	0.06453	0.06447	59.8292	0.50902	0.000706518	0.01358	0.20124	0.24984	0.001276352	51.9695	18.7948	1.05985	0.004954503	0.001343622	0.00023408	0.02991	0.019726408	0.304	1.28765E-05
	February	0.83672	0.03867	0.32262	0.00253	0.000200061	0.002573156	435.728	0.00631	0.015538548	0.13113	0.06538	0.06602	61.3507	0.52159	0.000724732	0.0139	0.20634	0.25944	0.001300802	53.2636	19.2468	1.08526	0.00507239	0.001369922	0.00023126	0.03015	0.020193659	0.311	1.32089E-05
	March	0.84226	0.03893	0.32443	0.00253	0.000199737	0.002586534	438.614	0.00636	0.015645826	0.13199	0.06981	0.06626	61.7517	0.52514	0.000730067	0.01396	0.20777	0.2682	0.001312426	53.5608	19.3369	1.0892	0.005100263	0.001367	0.00023091	0.02928	0.020246263	0.31231	1.3305E-05
	April	0.34307	0.01205	0.14753	0.00375	5.7979E-05	0.000786122	132.931	0.00237	0.004744894	0.03285	0.02051	0.01948	18.6179	0.17322	0.000223578	0.0044	0.06467	0.09475	0.000578088	16.2238	6.05022	0.32222	0.001705457	0.000456734	0.00031837	0.00643	0.005819569	0.10484	4.0365E-06
	May	0.35872	0.01428	0.14526	0.00278	6.43605E-05	0.00092528	159.198	0.00258	0.005694993	0.03801	0.02143	0.02292	22.3373	0.19917	0.0002647	0.00502	0.07664	0.13431	0.000614534	19.2168	6.97831	0.37754	0.001921255	0.000472563	0.00022192	0.00489	0.006835	0.11627	4.86485E-06
	June	0.34949	0.01361	0.14496	0.00319	6.40748E-05	0.00088743	151.403	0.0025	0.005410692	0.03622	0.02002	0.0221	21.2078	0.19106	0.000254649	0.00487	0.073	0.11602	0.000601046	18.3828	6.73393	0.36444	0.001858718	0.000477969	0.00024567	0.0064	0.00661887	0.11325	4.61224E-06
	July	0.30956	0.01136	0.13121	0.0033	5.4156E-05	0.00074073	125.721	0.00217	0.004489723	0.03091	0.02026	0.0184	17.6085	0.16158	0.000211442	0.00411	0.06092	0.09279	0.000579103	15.3105	5.66629	0.30388	0.001582832	0.000416943	0.00025897	0.00577	0.005502038	0.09697	3.8227E-06
	August	0.38886	0.01536	0.16013	0.00338	7.17117E-05	0.001000114	170.973	0.0028	0.006111502	0.04079	0.02199	0.0249	23.9545	0.21482	0.000283146	0.00546	0.08234	0.13333	0.000632955	20.7327	7.5726	0.41046	0.002085018	0.000530825	0.00025934	0.00687	0.00745578	0.1268	5.2122E-06
	September	0.40356	0.01617	0.16492	0.00326	7.49453E-05	0.001052386	180.271	0.00292	0.006445661	0.04263	0.02168	0.0262	25.2626	0.22547	0.000303412	0.00573	0.08671	0.14321	0.000638715	21.8325	7.95032	0.43167	0.002183244	0.00055016	0.00025356	0.00687	0.007842815	0.13251	5.49972E-06
	October	0.38055	0.01479	0.15699	0.00323	6.86106E-05	0.000962253	164.588	0.00272	0.005883501	0.03927	0.02123	0.0239	23.0698	0.20762	0.000277715	0.00526	0.07937	0.13012	0.000619279	19.9468	7.29419	0.3941	0.002015533	0.000511526	0.00026406	0.00629	0.007144676	0.12257	5.01858E-06
Junction 5	November	0.22543	0.0076	0.11589	0.00382	4.24384E-05	0.000506335	82.5366	0.00167	0.002927325	0.03085	0.02921	0.01271	11.6304	0.1136	0.000137294	0.00298	0.04067	0.03458	0.000759015	10.3094	4.01539	0.2114	0.001158975	0.000358973	0.00032145	0.00783	0.003841073	0.07379	2.46656E-06
	December	0.56356	0.02478	0.23069	0.00307	0.000131416	0.00165316	277.801	0.00424	0.00989573	0.08624	0.05169	0.0424	39.1262	0.33911	0.000461477	0.00906	0.1322	0.15152	0.001137445	34.1166	12.4786	0.69817	0.003329506	0.00093144	0.0002743	0.02136	0.012971623	0.20583	8.39612E-06
	January	0.81781	0.03772	0.31629	0.00256	0.000195898	0.002511441	424.907	0.00617	0.015150889	0.12836	0.06453	0.06446	59.8292	0.50902	0.000706518	0.01358	0.20124	0.25102	0.001423713	51.9695	18.7946	1.05985	0.004954424	0.001343622	0.00023408	0.0299	0.01972617	0.30406	1.28765E-05
	February	0.83672	0.03867	0.32262	0.00253	0.000200061	0.002573269	435.728	0.00631	0.015538548	0.13158	0.06538	0.06602	61.3507	0.52159	0.000724732	0.0139	0.20634	0.26062	0.001448204	53.2636	19.2468	1.08526	0.00507239	0.001369922	0.00023126	0.03015	0.020193659	0.31106	1.32089E-05
	March	0.84226	0.03893	0.32443	0.00253	0.000199737	0.002586759	438.614	0.00636	0.015645826	0.13245	0.06981	0.06626	61.7517	0.52514	0.000730067	0.01396	0.20777	0.26938	0.001459828	53.5608	19.3369	1.0892	0.005100263	0.001367	0.00023091	0.02928	0.020246263	0.31238	1.3305E-05
	April	0.34307	0.01205	0.14753	0.00375	5.7979E-05	0.000786291	132.931	0.00237	0.004744894	0.03331	0.02051	0.01948	18.6179	0.17323	0.000223578	0.0044	0.06467	0.09594	0.00072549	16.2238	6.05022	0.32222	0.001705457	0.000456734	0.00031837	0.00643	0.005819569	0.1049	4.0365E-06
	May	0.35532	0.01414	0.14388	0.00275	6.37513E-05	0.00091668	157.691	0.00255	0.005641214	0.03811	0.02122	0.0227	22.1258	0.19729	0.000265922	0.00497	0.07591	0.13422	0.000761588	19.0346	6.9121	0.37396	0.001903094	0.000468082	0.00021981	0.00484	0.006770256	0.11523	4.8188E-06
	June	0.3472	0.01352	0.14401	0.00317	6.36557E-05	0.000881798	150.413	0.00249	0.005375599	0.03644	0.01989	0.02195	21.069	0.18981	0.000252984	0.00483	0.07252	0.11645	0.0007449	18.2628	6.69002	0.36205	0.001846559	0.0004784	0.00024407	0.00636	0.006575549	0.11257	4.58209E-06
	July	0.30759	0.01129	0.13039	0.00328	5.38153E-05	0.000736233	124.927	0.00216	0.004461433	0.03117	0.02013	0.01828	17.4977	0.16056	0.000210118	0.00408	0.06054	0.09339	0.000722838	15.2139	5.63042	0.30196	0.001572883	0.000414325	0.00025734	0.00573	0.005467286	0.09642	3.7986E-06
	August	0.38692	0.01528	0.15932	0.00336	7.13512E-05	0.000995246	170.115	0.00278	0.006080971	0.04104	0.02188	0.02477	23.8342	0.21374	0.000286222	0.00544	0.08192	0.13385	0.000777166	20.6283	7.53444	0.4084	0.002074595	0.000528158	0.00025803	0.00683	0.007418171	0.12622	5.18597E-06
	September	0.40149	0.01609	0.16406	0.00324	7.45569E-05	0.001047103	179.337	0.0029	0.006412329	0.04286	0.02157	0.02606	25.1314	0.22431	0.000301828	0.0057	0.08627	0.14365	0.000782781	21.7191	7.90894	0.42943	0.002171874	0.000547311	0.00025225	0.00683	0.007802112	0.13189	5.47123E-06
	October	0.37901	0.01474	0.15637	0.00321	6.8334E-05	0.000958532	163.923	0.00271	0.005859972	0.03957	0.02114	0.0238	22.9767	0.20679	0.000275992	0.00524	0.07905	0.13078	0.000764154	19.8666	7.26477	0.39251	0.0020074	0.000509468	0.000263	0.00627	0.007115874	0.12214	4.9984E-06

Notes: [a] Regulation criteria applies to total concentrations.

CCME criteria for:

Aluminium depends on pH conditions. Values are provided for reference given [b] pH<6.5 and [c] pH>=6.5

Cadmium depends on hardness concentrations. Values are provided for reference given a hardness of [d] 0--17, [e] >=280 and [f] 40 mg/L.

Copper depends on hardness concentrations. Values are provided for reference given a hardness of [g] 0--82 and [h] >=180 mg/L.

Manganese depends on hardness concentrations and pH conditions. Values are provided for reference given [i] 10-24 and [j] >=670 mg/L and pH of [i] 6.7-6.9 and [j] 6.5-6.7.

Nickel depends on hardness concentrations. Values are provided for reference given a hardness of [k] <=60 and [l] >=180 mg/L.

Lead depends on hardness concentrations. Values are provided for reference given a hardness of [m] <=60 and [n] >=180 mg/L.

Zinc depends on hardness and DOC concentrations, and pH conditions. Values are provided for reference given a pH of [o,p,q] 6.5-6.7, [o,p,q] DOC 8 mg/L and hardness [o] 8, [p] 399, and [q] 38 mg/L.

Table T: Dissolved Metals. Climate change conditions. Mineral precipitation was allowed. Effluent pH of 6.5

Regulation[a]		Al	As	B	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Li	Mg	Mn	Hg	Mo	Ni	P	Pb	K	Na	Sr	Se	Sb	Tl	Ti	U	Zn	Sn
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MDMER			0.1								0.1							0.25		0.08									0.4	
Directive 019 (2025)			0.1								0.1	3						0.25		0.08									0.4	
CVAC (hardness 10mg/L)			0.15		0.038	0.000138	0.00005			0.1	0.0013	0.65	0.44		0.26	0.00091	3.2	0.007		0.00017			21	0.005	0.24	0.0072		0.014	0.017	
CVAA (hardness 10mg/L)			0.34		0.11	0.00124	0.0002			0.37	0.0016	3.4	0.91		0.6	0.0016	29	0.07		0.004			40	0.062	1.1	0.047		0.32	0.017	
CVAC (hardness 90mg/L)					0.391	0.005583018	0.000250301				0.00853				1.75906			0.04771		0.002782244									0.10958	
CVAA (hardness 90mg/L)					1.12	0.050245928	0.001916511				0.01268				3.79535			0.42916		0.071397133									0.10958	
CVAC (hardness 400mg/L)					1.911	0.068822	0.0076				0.0305				6.52			0.169		0.01858									0.388	
CVAA (hardness 400mg/L)					5.45	0.61939	0.0087				0.0517				14.1			1.52		0.477									0.388	
CCME (long-term)		0.005[b]	0.005	1.5			0.00004[d]				0.002[g]	0.3			0.23[i]	0.000026	0.073	0.025[k]		0.001[m]				0.001		0.0008		0.015	0.02[o]	
CCME (long-term)		0.1[c]					0.00037[e]				0.004[h]				1.2[j]			0.15[l]		0.007[n]									0.312[p]	
CCME (long-term)							0.00007[f]																						0.037[q]	
Station	**Time**	**Effluent**																												
Junction 6	November	0.22543	0.0076	0.11589	0.00382	4.24384E-05	0.000506493	82.5366	0.00167	0.002927605	0.03131	0.02921	0.01271	11.6304	0.11361	0.000137294	0.00298	0.04067	0.03561	0.000906396	10.3094	4.01539	0.2114	0.001158975	0.000358973	0.00032145	0.00783	0.003841073	0.07385	2.46656E-06
	December	0.56356	0.02478	0.23069	0.00307	0.000131416	0.001653273	277.801	0.00424	0.009895373	0.0867	0.05169	0.0424	39.1262	0.33911	0.000461477	0.00906	0.1322	0.1527	0.001284826	34.1164	12.4786	0.69817	0.003329506	0.00093144	0.0002743	0.02136	0.012971623	0.20589	8.39612E-06
	January	0.81781	0.03772	0.31629	0.00256	0.000195898	0.002511554	424.907	0.00617	0.015150889	0.12881	0.06453	0.06446	59.8292	0.50902	0.000706518	0.01358	0.20124	0.2522	0.001571094	51.9695	18.7946	1.05985	0.004954424	0.001343622	0.00023408	0.0299	0.01972617	0.30412	1.28765E-05
	February	0.83672	0.03867	0.32262	0.00253	0.000200061	0.002573494	435.728	0.00631	0.015538548	0.13204	0.06538	0.06602	61.3507	0.52159	0.000724732	0.0139	0.20634	0.2618	0.001595585	53.2636	19.2468	1.08526	0.00507239	0.001369922	0.00023126	0.03015	0.020193659	0.31112	1.32089E-05
	March	0.84226	0.03893	0.32443	0.00253	0.000199737	0.002586871	438.614	0.00636	0.015645826	0.1329	0.06981	0.06626	61.7517	0.52514	0.000730067	0.01396	0.20777	0.27056	0.001607209	53.5608	19.3369	1.0892	0.005100263	0.001367	0.00023091	0.02928	0.020246263	0.31244	1.3305E-05
	April	0.34307	0.01205	0.14753	0.00375	5.7979E-05	0.000786448	132.931	0.00237	0.004744894	0.03377	0.02051	0.01948	18.6179	0.17323	0.000223578	0.0044	0.06467	0.09712	0.000872871	16.2238	6.05022	0.32222	0.001705457	0.000456734	0.00031837	0.00643	0.005819569	0.10496	4.0365E-06
	May	0.35532	0.01414	0.14388	0.00275	6.37513E-05	0.000916849	157.691	0.00255	0.005641214	0.03857	0.02122	0.0227	22.1258	0.19729	0.000265922	0.00497	0.07591	0.1354	0.000903475	19.0346	6.9121	0.37396	0.001903094	0.000468082	0.00021981	0.00484	0.006770256	0.11528	4.8188E-06
	June	0.3472	0.01352	0.14401	0.00317	6.36557E-05	0.000881955	150.413	0.00249	0.005375399	0.0369	0.01989	0.02195	21.069	0.18982	0.000252984	0.00483	0.07252	0.11763	0.000891872	18.2628	6.69002	0.36205	0.001846559	0.00047484	0.00024407	0.00636	0.006575549	0.11264	4.58209E-06
	July	0.30759	0.01129	0.13039	0.00328	5.38153E-05	0.000736402	124.927	0.00216	0.004461433	0.03163	0.02013	0.01828	17.4977	0.16057	0.000210118	0.00408	0.06054	0.09457	0.000870219	15.2139	5.63042	0.30196	0.001572883	0.000414325	0.00025734	0.00573	0.005467286	0.09647	3.7986E-06
	August	0.38692	0.01528	0.15932	0.00336	7.13512E-05	0.000995415	170.115	0.00278	0.006080971	0.0415	0.02188	0.02477	23.8342	0.21375	0.000286222	0.00544	0.08193	0.13503	0.000924547	20.6283	7.53444	0.4084	0.002074595	0.000528158	0.00025803	0.00683	0.007418171	0.12628	5.18597E-06
	September	0.40149	0.01609	0.16406	0.00324	7.45569E-05	0.001047271	179.337	0.0029	0.006412329	0.04332	0.02157	0.02606	25.1314	0.22431	0.000301828	0.0057	0.08627	0.14483	0.000930162	21.7191	7.90894	0.42943	0.002171874	0.000547311	0.00025225	0.00683	0.007802112	0.13195	5.47123E-06
	October	0.37901	0.01474	0.15637	0.00321	6.8334E-05	0.0009587	163.923	0.00271	0.005859972	0.04002	0.02114	0.0238	22.9767	0.20679	0.000275992	0.00524	0.07905	0.13196	0.000911535	19.8666	7.26477	0.39251	0.0020074	0.000509468	0.00063	0.00627	0.007115874	0.1222	4.9984E-06
OutletSP04	November	1.123	0.0525	0.41716	0.00225	0.000223998	0.003389732	592.393	0.00855	0.021238583	0.17854	0.21501	0.08417	83.213	0.70826	0.001000443	0.01779	0.28193	0.55657	0.001617507	70.8266	25.0152	1.38098	0.006686333	0.001497161	0.00020035	0.01001	0.025131092	0.39808	1.82054E-05
	December	0.23775	0.00022	0.0707	0.00567	1.30091E-05	7.96419E-05	0.57179	0.00013	4.82332E-05	0.00612	0.02927	0.00035	0.32335	0.01763	2.18001E-06	0.00017	0.00077	0.01728	0.000149681	0.51668	0.8317	0.017	8.91222E-06	6.74733E-05	0.00035356	0.00212	0.000137981	0.00879	3.53578E-09
	January	0.23775	0.00022	0.0707	0.00567	1.30091E-05	7.96419E-05	0.57179	0.00013	4.82332E-05	0.00612	0.02927	0.00035	0.32335	0.01763	2.18001E-06	0.00017	0.00077	0.01728	0.000149681	0.51668	0.8317	0.017	8.91222E-06	6.74733E-05	0.00035356	0.00212	0.000137981	0.00879	3.53578E-09
	February	0.23775	0.00022	0.0707	0.00567	1.30091E-05	7.96419E-05	0.57179	0.00013	4.82332E-05	0.00612	0.02927	0.00035	0.32335	0.01763	2.18001E-06	0.00017	0.00077	0.01728	0.000149681	0.51668	0.8317	0.017	8.91222E-06	6.74733E-05	0.00035356	0.00212	0.000137981	0.00879	3.53578E-09
	March	0.23775	0.00022	0.0707	0.00567	1.30091E-05	7.96419E-05	0.57179	0.00013	4.82332E-05	0.00612	0.02927	0.00035	0.32335	0.01763	2.18001E-06	0.00017	0.00077	0.01728	0.000149681	0.51668	0.8317	0.017	8.91222E-06	6.74733E-05	0.00035356	0.00212	0.000137981	0.00879	3.53578E-09
	April	0.09107	0.00022	0.0707	0.00567	1.30091E-05	7.95082E-05	0.57179	0.00013	4.82136E-05	0.00343	0.02073	0.00035	0.32335	0.01762	2.18001E-06	0.00017	0.00077	0.01863	0.000130318	0.51668	0.8317	0.017	8.91222E-06	6.74733E-05	0.00035356	0.00212	0.000137981	0.00872	3.53578E-09
	May	1.09189	0.05094	0.40681	0.00281	0.000217698	0.003289571	574.719	0.0083	0.020602475	0.12859	0.06022	0.08167	80.7363	0.6876	0.000970615	0.01727	0.27339	0.53262	0.000853705	68.727	24.2933	1.34024	0.006486959	0.001454423	0.00020494	0.00977	0.024383682	0.38577	1.76617E-05
	June	1.08517	0.0506	0.40455	0.00323	0.000216319	0.0032681	570.871	0.00824	0.020464386	0.12774	0.05949	0.08113	80.1968	0.6831	0.000964116	0.01715	0.27156	0.52767	0.000848194	68.2695	24.137	1.33139	0.006443452	0.001445169	0.00020594	0.00972	0.024221822	0.38324	1.7543E-05
	July	1.08207	0.05044	0.40352	0.00324	0.000215689	0.003258095	569.068	0.00822	0.020400803	0.12733	0.05839	0.08088	79.9489	0.68101	0.000961127	0.0171	0.27072	0.52535	0.000844257	68.0584	24.0634	1.32727	0.006423396	0.001440786	0.00020639	0.0097	0.024145653	0.38207	1.74884E-05
	August	1.06998	0.04983	0.39945	0.00327	0.00021321	0.003219312	562.134	0.00812	0.020152355	0.12583	0.05831	0.07989	78.9767	0.67294	0.000949413	0.01689	0.26742	0.51655	0.00083657	67.2334	23.7806	1.31132	0.006345068	0.001424105	0.00020818	0.0096	0.023852877	0.37752	1.72747E-05
	September	0.97352	0.04494	0.36706	0.00333	0.000193483	0.002909949	506.746	0.00733	0.018171488	0.1138	0.05603	0.07205	71.2258	0.60838	0.000856078	0.01524	0.24115	0.44624	0.000772379	60.661	21.5189	1.18375	0.005720731	0.001290412	0.00022251	0.00887	0.021516147	0.34118	1.55724E-05
	October	1.08404	0.05054	0.40418	0.00233	0.000216085	0.00326439	570.19	0.00823	0.020441138	0.12757	0.05802	0.08104	80.1068	0.68233	0.000963013	0.01713	0.27125	0.52677	0.000844506	68.1913	24.1094	1.3299	0.006436109	0.001443587	0.00020061	0.00971	0.024193258	0.38281	1.75228E-05
Lake A	November	0.39436	0.01581	0.16565	0.0035	7.40937E-05	0.001036873	176.219	0.00283	0.006307572	0.04959	0.04164	0.02558	24.7789	0.22142	0.000296913	0.00558	0.08475	0.12067	0.00114333	21.368	7.83537	0.42265	0.002116523	0.000534819	0.00026991	0.00652	0.007658342	0.1296	5.37982E-06
	December	0.42679	0.01751	0.17784	0.00343	8.42261E-05	0.001152356	195.456	0.0031	0.006989335	0.05688	0.04484	0.02867	27.4938	0.24375	0.000328326	0.00622	0.09376	0.13042	0.001314767	23.7589	8.69933	0.47338	0.002342743	0.000604234	0.00026999	0.00884	0.008627834	0.14372	5.95509E-06
	January	0.48569	0.02054	0.19862	0.00331	0.000100477	0.001355488	229.911	0.00356	0.008215893	0.0681	0.04926	0.03399	32.3475	0.28364	0.000385293	0.00732	0.10992	0.15195	0.001498035	27.9776	10.204	0.5604	0.0027332	0.000711492	0.00026451	0.01166	0.010268091	0.16764	6.997E-06
	February	0.53488	0.02307	0.21594	0.00317	0.000113914	0.001524671	258.647	0.00394	0.009239659	0.07746	0.05288	0.0384	36.3943	0.31692	0.000432833	0.00823	0.12341	0.17034	0.001657476	31.4929	11.4565	0.63275	0.003058279	0.000800061	0.00025981	0.01393	0.011630331	0.18754	7.86667E-06
	March	0.5845	0.02562	0.23339	0.00302	0.000127171	0.001694529	287.584	0.00433	0.010270987	0.08681	0.0572	0.04282	40.4678	0.35046	0.000480814	0.00914	0.137	0.1898	0.001796051	35.0239	12.712	0.70506	0.003384857	0.000887302	0.00025511	0.01605	0.012988286	0.20745	8.74382E-06
	April	0.4848	0.01999	0.19787	0.00334	9.80976E-05	0.001316818	223.371	0.00352	0.007976968	0.06302	0.02274	0.03309	31.3923	0.27694	0.00037412	0.00716	0.10699	0.1533	0.001388157	27.2069	9.93871	0.54543	0.002687483	0.000706464	0.00028199	0.01184	0.009994596	0.16483	6.79092E-06
	May	0.39118	0.01583	0.16193	0.00335	7.45262E-05	0.001043416	176.86	0.00276	0.006336982	0.04513	0.02469	0.02565	24.9005	0.22092	0.000298157	0.00555	0.08481	0.1074	0.000931737	21.4435	7.8625	0.42433	0.002087387	0.000523203	0.00024867	0.00628	0.007690238	0.1279	5.40617E-06
	June	0.40726	0.01665	0.1675	0.00343	7.73948E-05	0.001094867	186.178	0.00289	0.006672262	0.04598	0.026	0.02691	26.1959	0.23186	0.000314084	0.00582	0.08924	0.11987	0.000928629	22.5363	8.23585	0.44486	0.002189008	0.000541564	0.00024669	0.00605	0.008058231	0.13369	5.69594E-06
	July	0.36563	0.01449	0.15298	0.00352	6.8069E-05	0.000955114	161.651	0.00256	0.005793588	0.04021	0.02506	0.0234	22.7458	0.20331	0.000272782	0.00509	0.07766	0.09658	0.000918476	19.6062	7.21396	0.38739	0.001919912	0.000481999	0.00025229	0.00553	0.007003287	0.11778	4.94237E-06
	August	0.37958	0.01515	0.15815	0.00356	7.08943E-05	0.000996618	168.989	0.00267	0.006055482	0.04159	0.02491	0.02446	23.764	0.2121	0.000285099	0.00532	0.08117	0.10557	0.00093901	20.4859	7.52225	0.40469	0.002007005	0.000502577	0.00025485	0.00577	0.007321055	0.12291	5.16662E-06
	September	0.36028	0.01419	0.15146	0.00356	6.69857E-05	0.000935071	158.088	0.00252	0.005664742	0.03911	0.02366	0.02292	22.2301	0.19932	0.000266684	0.005	0.07601	0.09418	0.000950779	19.1914	7.07211	0.37963	0.001886907	0.000477324	0.00025611	0.00568	0.006864754	0.11586	4.83078E-06
	October	0.36703	0.01443	0.15373	0.00349	6.77374E-05	0.000949392	160.825	0.00258	0.005761657	0.03767	0.02298	0.02329	22.61	0.20274	0.000271318	0.00508	0.07735	0.10096	0.000972763	19.5101	7.17925	0.38553	0.001923545	0.000484897	0.00025885	0.00565	0.006970201	0.11793	4.91459E-06
Junction 26	May	0.33527	0.01247	0.14292	0.00356	5.97282E-05	0.000821443	138.397	0.00231	0.004952448	0.0362	0.02409	0.02016	19.4831	0.17726	0.000233226	0.00445	0.06685	0.08134	0.000715669	16.8478	6.25942	0.33402	0.001697719	0.000441563	0.00027678	0.00569	0.006030938	0.10478	4.21812E-06
	June	0.34607	0.0131	0.14622	0.0036	6.15631E-05	0.000860698	145.551	0.00239	0.005212381	0.03609	0.02451	0.02107	20.4806	0.18542	0.000245622	0.00464	0.07021	0.0894	0.000694306	17.6732	6.53714	0.349	0.001766019	0.000449672	0.00027019	0.00519	0.006293946	0.10856	4.44426E-06
	July	0.31415	0.01144	0.13509	0.00366	5.44363E-05	0.000753871	126.795	0.00214	0.004540421	0.03171	0.02406	0.01838	17.8433	0.16358	0.00021403	0.00408	0.06136	0.07157	0.000675265	15.4329	5.75572	0.30506	0.001560092	0.000404048	0.00027434	0.00479	0.005487518	0.09638	3.86805E-06
	August	0.3264	0.01203	0.13959	0.0037	5.69894E-05	0.000791406	133.412	0.00224	0.004776825	0.03302	0.02419	0.01934	18.7632	0.17145	0.000225162	0.00428	0.06452	0.07927	0.000700429	16.2262	6.03366	0.32066	0.001637315	0.000422142	0.00027582	0.00499	0.005774105	0.10093	4.07057E-06
	September	0.31088	0.01126	0.13421	0.00369	5.38289E-05	0.00074173	124.619	0.00212	0.004461433	0.03115	0.02421	0.0181	17.5258	0.16115	0.000210299	0.00403	0.06035	0.07025	0.000706448	15.1819	5.67043	0.30044	0.001540589	0.000401784	0.00027694	0.00492	0.005405637	0.09526	3.79967E-06
	October	0.32359	0.01188	0.13857	0.00362	5.6355E-05	0.000781547	131.72	0.00222	0.004715764	0.03258	0.02325	0.0191	18.5199	0.16949	0.000222274	0.00424	0.06372	0.07947	0.000765811	16.0248	5.96171	0.31676	0.001620812	0.00041894	0.00027616	0.005	0.005703887	0.09995	4.01798E-06
Junction 27	May	0.34167	0.01278	0.14549	0.00356	6.13775E-05	0.00084197	141.896	0.00237	0.005076252	0.03817	0.02386	0.0207	19.9721	0.18145	0.000238983	0.00457	0.06852	0.08625	0.000902439	17.2771	6.41277	0.34287	0.001741463	0.000454092	0.00027864	0.00602	0.006197797	0.10753	4.32306E-06
	June	0.33972	0.01273	0.14401	0.00361	5.99193E-05	0.000836529	141.335	0.00234	0.005060847	0.03545	0.02433	0.02046	19.8873	0.18059	0.000238502	0.00451	0.06824	0.08727	0.000793866	17.1685	6.36081	0.33904	0.001722118	0.000440126	0.00027265	0.0051	0.006110678	0.10601	4.31428E-06
	July	0.3088	0.01113	0.13323	0.00368	5.30205E-05	0.000733108	123.176	0.0021	0.004410175	0.03121	0.0239	0.01786	17.3341	0.15945	0.000207932	0.00398	0.05967	0.06999	0.000773581	14.9993	5.60422	0.29651	0.001522665	0.000395951	0.00027663	0.00471	0.005329943	0.09421	3.75646E-06
	August	0.32086	0.01171	0.13765	0.00371	5.55439E-05	0.000770205	129.712	0.00219	0.004643778	0.03252	0.02404	0.01881	18.2431	0.16723	0.000218924	0.00418	0.06278	0.07756	0.000801532	15.7832	5.87871	0.31193	0.001598861	0.000413777	0.000278	0.00491	0.005613198	0.0987	3.95649E-06
	September	0.30575	0.01095	0.13241	0.00371	5.24617E-05	0.000721777	121.14	0.00208	0.004336508	0.03072	0.02425	0.0176	17.0368	0.15718	0.000204441	0.00393	0.05872	0.06878	0.00080549	14.7651	5.52467	0.2922	0.001504583	0.00039393	0.00027911	0.00484	0.005254012	0.09317	3.69247E-06
	October	0.31906	0.01162	0.13698	0.00363	5.51663E-05	0.000764157	128.678	0.00218	0.004606525	0.03224	0.02328	0.01867	18.0926	0.16602	0.000217159	0.00415	0.0623	0.07826	0.000870012	15.6608	5.83457	0.30958	0.001589228	0.000412048	0.00027796	0.00494	0.005571543	0.09813	3.9242E-06
Junction 28	May	0.17047	0.00286	0.0853	0.00407	1.62985E-05	0.000187169	28.7039	0.00096	0.001011497	0.00938	0.02134	0.00431	4.0446	0.05186	4.85749E-05	0.00126	0.01549	0.00745	8.31328E-05	3.6944	1.65701	0.0738	0.000552862	0.000188314	0.00033946	0.00291	0.001232704	0.03636	8.41666E-07
	June	0.16875	0.00278	0.08451	0.00409	1.56713E-05	0.000181481	27.7965	0.00095	0.000980126	0.00862	0.0211	0.00414	3.91651	0.05076	4.71587E-05	0.00122	0.01506	0.00571	7.23957E-05	3.57687	1.61287	0.07111	0.000540063	0.000183298	0.00033836	0.00268	0.001179481	0.03551	8.15775E-07
	July	0.1663	0.00268	0.08366	0.00409	1.52648E-05	0.000175197	26.6599	0.00093	0.000939651	0.0084	0.02102	0.00398	3.75658	0.04938	4.52471E-05	0.00119	0.01451	0.00492	7.33674E-05	3.44155	1.55586	0.06848	0.000526055	0.000180083	0.00033766	0.00266	0.001131661	0.0347	7.81041E-07
	August	0.16798	0.00275	0.08429	0.0041	1.55749E-05	0.000179739	27.4687	0.00094	0.000968474	0.00852	0.02106	0.0041	3.86838	0.05037	4.66051E-05	0.00121	0.0149	0.00535	7.4534E-05	3.53879	1.59995	0.07039	0.000536178	0.000182543	0.00033827	0.00269	0.001166699	0.03529	8.0572E-07
	September	0.16428	0.00256	0.083	0.0041	1.478E-05	0.000167429	25.3065	0.00091	0.000890634	0.0083	0.02125	0.00379	3.56311	0.04784	4.29403E-05	0.00115	0.01388	0.00673	7.31893E-05	3.28058	1.51008	0.06537	0.0005126	0.00017755	0.00033877	0.00266	0.001075034	0.03391	7.38875E-07
	October	0.17162	0.00297	0.08555	0.00407	1.65473E-05	0.000194015	29.9451	0.00097	0.001057237	0.00941	0.02174	0.00446	4.21473	0.05319	5.07653E-05	0.00128	0.01606	0.00949	9.0304E-05	3.83503	1.70315	0.07625	0.000562116	0.000188277	0.00033666	0.00275	0.001274907	0.03686	8.8179E-07

Notes: [a] Regulation criteria applies to total concentrations.

CCME criteria for:

Aluminium depends on pH conditions. Values are provided for reference given [b] pH<6.5 and [c] pH>=6.5

Cadmium depends on hardness concentrations. Values are provided for reference given a hardness of [d] 0--17, [e] >=280 and [f] 40 mg/L.

Copper depends on hardness concentrations. Values are provided for reference given a hardness of [g] 0--82 and [h] >=180 mg/L.

Manganese depends on hardness concentrations and pH conditions. Values are provided for reference given a hardness of [i] 10-24 and [j] >=670 mg/L and pH of [i] 6.7-6.9 and [j] 6.5-6.7.

Nickel depends on hardness concentrations. Values are provided for reference given a hardness of [k] <=60 and [l] >=180 mg/L.

Lead depends on hardness concentrations. Values are provided for reference given a hardness of [m] <=60 and [n] >=180 mg/L.

Zinc depends on hardness and DOC concentrations, and pH conditions. Values are provided for reference given a pH of [o,p,q] 6.5-6.7, [o,p,q] DOC 8 mg/L and hardness [o] 8, [p] 399, and [q] 38 mg/L.

Table U: General Chemistry. Climate Change Conditions. No precipitation. Effluent pH of 6.5

Regulation		Hardness mg/L	pH n/a	Alk mg/L	DOC mg/L	F mg/L	Si mg/L	Sulphate mg/L	Cl mg/L	Nitrate as N mg/L	Nitrite as N mg/L	Total Ammonia as N mg/L
MDMER												0.5[a]
CCME (long-term)			6.5-9							2.935483871	0.05995652	0.019[a]
CCME (long-term)												
CCME (long-term)												
Station	**Time**	**Effluent**										
Effluent	n/a	1851.8188	6.5	37.6901	8.91286	1.002546	52.62468	1589.22	40.094	5.776351443	0.03982558	0.11905348
	n/a	1851.8188	7.22544	33.9017	8.91274	1.002546	52.62468	1589.22	40.094	5.776351443	0.03982558	0.11905348
	n/a	1851.8188	6.33468	34.6586	8.91286	1.002546	52.62468	1589.22	40.094	5.776351443	0.03982558	0.11905348
Year 21 Historical Conditions												
Junction 2	November	50.077741	6.84705	5.99584	9.06811	0.030416	2.733289	40.8121	1.05641	0.139037016	0.0009586	0.002865622
	December	404.6162	6.58458	11.6842	9.12162	0.221749	12.56328	345.48	8.73772	1.206557419	0.00831872	0.024867749
	January	390.63641	6.59027	11.4703	9.13754	0.214207	12.17813	333.472	8.43497	1.164446216	0.00802838	0.023999816
	February	4.5680463	6.92864	5.34444	9.19871	0.00591	1.491863	1.66981	0.07	0.001829022	1.261E-05	3.7697E-05
	March	675.06087	6.50683	15.9846	9.09505	0.367657	20.05173	577.897	14.5972	0.316674567	0.00218334	0.006526821
	April	4.5680563	7.02357	5.17252	9.19883	0.00591	1.491923	1.66991	0.07	0.199909139	0.00137829	0.004120227
	May	275.6647	7.03005	8.52216	7.59401	0.15159	8.764071	235.04	5.94851	0.884293241	0.00609684	0.018225724
	June	373.45916	7.09873	10.3549	8.14104	0.204556	11.55444	318.948	8.06594	1.189634487	0.00820204	0.024518959
	July	233.94251	7.09088	8.22412	8.23333	0.129313	7.702961	199.027	5.04241	0.75738526	0.00522186	0.015610087
	August	194.0147	7.08306	7.6531	8.32968	0.107805	6.611208	164.685	4.17707	0.633965533	0.00437093	0.013066345
	September	357.56189	7.08658	10.2205	8.34692	0.196064	11.14466	305.24	7.72066	1.141149167	0.00786776	0.023519653
	October	334.71026	7.05212	9.94088	8.48733	0.183783	10.53239	285.558	7.22506	1.070823737	0.00738289	0.02207021
Junction 3	November	258.55752	6.73124	10.5414	8.78622	0.145746	8.565188	219.977	5.55785	0.794635323	0.00547869	0.01637783
	December	867.84967	6.59948	23.3058	8.51941	0.48123	25.63187	743.524	18.7219	2.693239796	0.01856879	0.055509013
	January	1326.9039	6.54882	32.3971	8.22997	0.73292	38.4427	1138.02	28.645	4.114317792	0.02836654	0.084798139
	February	1360.5799	6.54405	32.9615	8.22183	0.751178	39.37823	1166.94	29.3756	4.216443764	0.02907065	0.086903006
	March	1369.6268	6.53796	32.8539	8.252	0.755472	39.61257	1174.72	29.5731	2.098975909	0.01447158	0.043260939
	April	415.14833	7.13005	12.2622	9.04705	0.229007	12.89735	354.519	8.95715	1.272834233	0.00877567	0.026233747
	May	509.5932	7.07234	12.163	6.90884	0.278327	15.16858	436.228	11.0147	1.61398261	0.01112775	0.033264985
	June	481.05118	7.14566	12.4298	7.39782	0.264059	14.48181	411.559	10.3897	1.535952204	0.01058976	0.03165674
	July	399.23005	7.14578	11.1566	7.58862	0.219755	12.23641	341.196	8.61754	1.281029527	0.00883217	0.026402656
	August	540.98743	7.17273	13.6417	7.84993	0.296603	16.21107	462.952	11.6864	1.72395365	0.01188595	0.035531543
	September	570.60028	7.14891	14.0256	7.76195	0.312486	17.01621	488.417	12.3288	1.814872382	0.0125128	0.037405424
	October	519.33072	7.10575	13.1917	7.92426	0.284634	15.61141	444.326	11.2189	1.654188583	0.01140495	0.03409365
Junction 4	November	258.00409	6.73132	10.5189	8.76743	0.145435	8.546562	219.507	5.5458	0.792940228	0.005467	0.016342893
	December	867.66953	6.59949	23.3011	8.51773	0.481135	25.62647	743.37	18.718	2.692679434	0.01856492	0.055497464
	January	1326.8939	6.54883	32.3968	8.22985	0.73292	38.4427	1138.02	28.6447	4.114317792	0.02836654	0.084798139
	February	1360.5799	6.54405	32.9615	8.22183	0.751178	39.37823	1166.94	29.3756	4.216443764	0.02907065	0.086903006
	March	1369.6268	6.53796	32.8539	8.252	0.755472	39.61257	1174.72	29.5731	4.238157791	0.02922036	0.087350543
	April	415.14833	7.13005	12.2622	9.04705	0.229007	12.89735	354.519	8.95715	1.33700969	0.00921813	0.027556436
	May	496.83936	7.06401	11.8585	6.736	0.271354	14.78884	425.306	10.7392	1.573496457	0.01084861	0.032430546
	June	472.76779	7.13977	12.2157	7.27034	0.259499	14.23245	404.47	10.2107	1.5094751	0.01040721	0.031111034
	July	392.60794	7.13999	10.9717	7.4627	0.216126	12.03332	335.538	8.47468	1.259791808	0.00868575	0.025964937
	August	533.83091	7.16827	13.4612	7.74603	0.292689	15.99656	456.823	11.5319	1.701118899	0.01172852	0.035060908
	September	562.81427	7.14534	13.8343	7.65613	0.30823	16.78428	481.76	12.1604	1.790076365	0.01234184	0.036894365
	October	513.82847	7.10218	13.0521	7.84035	0.281613	15.44618	439.628	11.1001	1.636677271	0.01128422	0.033732734
Junction 5	November	257.84497	6.73134	10.5125	8.76204	0.145345	8.541755	219.372	5.54261	0.792449912	0.00546362	0.016332787
	December	867.59948	6.59949	23.299	8.51689	0.481078	25.62466	743.303	18.7162	2.692399253	0.01856299	0.055491689
	January	1326.8939	6.54883	32.3964	8.22973	0.732901	38.4421	1137.93	28.6447	4.114177702	0.02836557	0.084795251
	February	1360.5799	6.54405	32.9615	8.22183	0.751178	39.37823	1166.94	29.3756	4.216443764	0.02907065	0.086903006
	March	1369.6268	6.53796	32.8539	8.252	0.755472	39.61257	1174.72	29.5731	4.238157791	0.02922036	0.087350543
	April	415.14833	7.13005	12.2622	9.04705	0.229007	12.89735	354.519	8.95715	1.33700969	0.00921813	0.027556436
	May	492.13373	7.06088	11.7462	6.6722	0.268789	14.64884	421.281	10.6375	1.558646864	0.01074623	0.032124488
	June	469.6724	7.13754	12.1358	7.22282	0.257808	14.13932	401.829	10.144	1.499528675	0.01033864	0.030906033
	July	390.13703	7.1378	10.9025	7.41577	0.214758	11.95762	333.424	8.42115	1.251848677	0.00863098	0.025801225
	August	531.14083	7.16658	13.3935	7.707	0.291208	15.91605	454.527	11.4737	1.692573379	0.0116696	0.03488478
	September	559.90202	7.14261	13.7626	7.61639	0.306634	16.69716	479.263	12.0973	1.780830392	0.0122781	0.036703801
	October	511.76288	7.10082	12.9995	7.80875	0.280473	15.38369	437.851	11.0554	1.630093018	0.01123882	0.033597029
Junction 6	November	257.84497	6.73134	10.5125	8.76204	0.145345	8.541755	219.372	5.54261	0.792449912	0.00546362	0.016332787
	December	867.59948	6.59949	23.299	8.51689	0.481078	25.62466	743.303	18.7162	2.692399253	0.01856299	0.055491689
	January	1326.8939	6.54883	32.3964	8.22973	0.732901	38.4421	1137.93	28.6447	4.114177702	0.02836557	0.084795251
	February	1360.5799	6.54405	32.9615	8.22183	0.751178	39.37823	1166.94	29.3756	4.216443764	0.02907065	0.086903006
	March	1369.6268	6.53796	32.8539	8.252	0.755472	39.61257	1174.72	29.5731	4.238157791	0.02922036	0.087350543
	April	415.14833	7.13005	12.2622	9.04705	0.229007	12.89735	354.519	8.95715	1.33700969	0.00921813	0.027556436
	May	492.13373	7.06088	11.7462	6.6722	0.268789	14.64884	421.281	10.6375	1.558646864	0.01074623	0.032124488
	June	469.6724	7.13754	12.1358	7.22282	0.257808	14.13932	401.829	10.144	1.499528675	0.01033864	0.030906033
	July	390.13703	7.1378	10.9025	7.41577	0.214758	11.95762	333.424	8.42115	1.251848677	0.00863098	0.025801225
	August	531.14083	7.16658	13.3935	7.707	0.291208	15.91605	454.527	11.4737	1.692573379	0.0116696	0.03488478
	September	559.90202	7.14261	13.7626	7.61639	0.306634	16.69716	479.263	12.0973	1.780830392	0.0122781	0.036703801
	October	511.76288	7.10082	12.9995	7.80875	0.280473	15.38369	437.851	11.0554	1.630093018	0.01123882	0.033597029
OutletSP04	November	1847.8958	6.37899	34.5928	8.91322	1.000532	52.51713	1585.85	40.0089	5.553047192	0.03828599	0.114451068
	December	2.7592372	6.5344	3.3349	9.0881	0.044335	1.491923	2.51937	0.47996	0.049507981	0.00034134	0.001020384
	January	2.7592372	6.5344	3.3349	9.0881	0.044335	1.491923	2.51937	0.47996	0.049507981	0.00034134	0.001020384
	February	2.7592372	6.5344	3.3349	9.0881	0.044335	1.491923	2.51937	0.47996	0.049507981	0.00034134	0.001020384
	March	2.7592372	6.5344	3.3349	9.0881	0.044335	1.491923	2.51937	0.47996	0.049507981	0.00034134	0.001020384
	April	2.7592372	7.15521	3.2805	9.0881	0.044335	1.491923	2.51937	0.47996	0.064734418	0.00044632	0.001334209
	May	1792.7733	7.20784	32.9249	8.91837	0.971977	50.99336	1538.59	38.8284	5.594233798	0.03856995	0.115299944
	June	1780.8341	7.23267	32.7258	8.91957	0.965746	50.66109	1528.31	38.5731	5.557109816	0.038314	0.114534801
	July	1775.2097	7.24083	32.6339	8.92004	0.962877	50.50787	1523.51	38.4526	5.539878685	0.0381952	0.114179658
	August	1753.593	7.23457	32.2756	8.92208	0.951649	49.90942	1504.97	37.9882	5.473055518	0.03773448	0.1128024
	September	1581.0699	7.19549	29.4188	8.93848	0.862262	45.13863	1356.94	34.2936	4.940151269	0.03406032	0.101818978
	October	1778.7625	7.18822	32.6922	8.91968	0.964682	50.60461	1526.59	38.5271	5.550805744	0.03827053	0.114404871
Lake A	November	550.34466	6.7591	13.559	8.13625	0.306539	16.51029	471.232	11.9481	1.753792926	0.01209168	0.036146546
	December	610.41101	6.69989	15.1688	8.20113	0.339425	18.22513	522.768	13.2331	1.951460617	0.01345452	0.040220575
	January	717.964	6.64792	17.5717	8.21178	0.398321	21.25404	615.13	15.5484	2.297904414	0.01584311	0.047360954
	February	807.68323	6.61611	19.5517	8.21932	0.447412	23.77884	692.17	17.4797	2.586490837	0.0178328	0.053308864
	March	898.01293	6.58949	21.4948	8.23153	0.496751	26.31745	769.738	19.4255	2.876057894	0.01982924	0.059276985
	April	697.4982	7.20552	17.6107	8.58991	0.385364	20.74332	597.32	15.0787	2.235844324	0.01541523	0.046081865
	May	552.4563	7.08064	13.0498	7.50399	0.310719	16.47845	473.412	12.0346	1.758976274	0.01212742	0.036253377
	June	581.51872	7.10807	13.4184	7.51632	0.325937	17.27759	498.378	12.6627	1.846953106	0.01273399	0.038066623
	July	505.0267	7.10273	12.1542	7.51094	0.284767	15.15416	432.654	11.0086	1.608799262	0.01109201	0.033158154
	August	527.91436	7.11015	12.6331	7.62118	0.296622	15.80549	452.26	11.4968	1.680525596	0.01158654	0.034636469
	September	493.93914	7.08322	12.0962	7.58371	0.27846	14.86035	423.077	10.7623	1.575457724	0.01086214	0.032470968
	October	502.41868	7.05481	12.2882	7.67612	0.282221	15.1061	430.301	10.937	1.601234375	0.01103986	0.033002238
Junction 26	May	432.3266	7.0886	11.52	8.01176	0.243332	13.21701	369.889	9.40063	1.385971318	0.00955571	0.028565559
	June	454.64882	7.10313	11.6052	7.8862	0.255567	13.80645	389.158	9.89374	1.451757815	0.01000928	0.029921452
	July	396.1677	7.10066	10.6355	7.87806	0.224105	12.18234	338.9	8.62924	1.269696206	0.00875404	0.026169071
	August	416.80162	7.106	11.0492	7.9561	0.234896	12.76697	356.594	9.07095	1.334333961	0.00919969	0.027501287
	September	389.39647	7.07917	10.6172	7.92869	0.220248	12.00448	333.059	8.47822	1.249621238	0.00861563	0.025755316
Junction 27	May	443.23401	7.09983	11.8288	8.08358	0.248955	13.53486	379.216	9.63106	1.421358178	0.00979968	0.0292949
	June	441.48366	7.10258	11.4169	7.92462	0.248271	13.44593	377.814	9.60624	1.4107113	0.00972628	0.029075462
	July	384.85897	7.10043	10.4778	7.91624	0.217798	11.8735	329.169	8.3818	1.234477455	0.00851122	0.025443195
	August	405.2477	7.10554	10.8845	7.99093	0.228494	12.45092	346.652	8.81854	1.298330704	0.00895146	0.026759242
	September	378.53009	7.07872	10.4634	7.9646	0.214188	11.70766	323.703	8.24071	1.215733347	0.00838198	0.02505687
Junction 28	May	89.713227	7.05894	6.48062	8.99246	0.053047	3.831412	74.946	1.92497	0.316310332	0.00218083	0.006519313
	June	86.89205	7.08493	6.34909	8.95871	0.051575	3.744288	72.5436	1.86683	0.306363907	0.00211225	0.006314313
	July	83.35332	7.09347	6.27162	8.93309	0.049808	3.642683	69.5186	1.792	0.295366803	0.00203643	0.006087657
	August	85.879269	7.09084	6.33168	8.95368	0.051077	3.715807	71.6771	1.84535	0.303295925	0.0020911	0.00625108
	September	79.113048	7.06469	6.22722	8.95272	0.047428	3.528341	65.8626	1.69873	0.282338387	0.00194661	0.005819135
	October	93.600226	7.02692	6.44504	8.92651	0.055325	3.926527	78.3225	2.01338	0.327377481	0.00225713	0.006747413

Notes: [a] Regulatory criteria is for un-ionized ammonia

Table V: Dissolved Metals. Climate Change Conditions. No precipitation. Effluent pH of 6.5

Regulation[a]		Al mg/L	As mg/L	B mg/L	Ba mg/L	Be mg/L	Cd mg/L	Ca mg/L	Cr mg/L	Co mg/L	Cu mg/L	Fe mg/L	Li mg/L	Mg mg/L	Mn mg/L	Hg mg/L	Mo mg/L	Ni mg/L	P mg/L	Pb mg/L	K mg/L	Na mg/L	Sr mg/L	Se mg/L	Sb mg/L	Tl mg/L	Ti mg/L	U mg/L	Zn mg/L	Sn mg/L
MDMER			0.1								0.1							0.25		0.08									0.4	
Directive 019 (2025)			0.1								0.1	3						0.25		0.08									0.4	
CVAC (hardness 10mg/L)			0.15		0.038	0.000138	0.00005			0.1	0.0013	0.65	0.44		0.26	0.00091	3.2	0.007		0.00017			21	0.005	0.24	0.0072		0.014	0.017	
CVAA (hardness 10mg/L)			0.34		0.11	0.00124	0.0002			0.37	0.0016	3.4	0.91		0.6	0.0016	29	0.07		0.004			40	0.062	1.1	0.047		0.32	0.017	
CVAC (hardness 90mg/L)					0.391	0.005583018	0.000250301				0.00853				1.75906			0.04771		0.00278									0.10958	
CVAA (hardness 90mg/L)					1.12	0.050245928	0.001916511				0.01268				3.79535			0.42916		0.0714									0.10958	
CVAC (hardness 400mg/L)					1.911	0.068822	0.0076				0.0305				6.52			0.169		0.01858									0.388	
CVAA (hardness 400mg/L)					5.45	0.61939	0.0087				0.0517				14.1			1.52		0.477									0.388	
CCME (long-term)		0.005[b]	0.005	1.5			0.00004[d]				0.002[g]	0.3			0.23[i]	0.000026	0.073	0.025[k]		0.001[m]				0.001		0.0008		0.015	0.02[o]	
CCME (long-term)		0.1[c]					0.00037[e]				0.004[h]				1.2[j]			0.15[l]		0.007[n]									0.312[p]	
CCME (long-term)							0.00007[f]																						0.037[q]	
Station	**Time**	**Effluent**																												
Effluent	n/a	1.12486	0.05261	0.41789	0.05769	0.000224439	0.003397151	604.096	0.00856	0.021283959	0.18885	4.22752	0.08435	83.388	0.70974	0.001002549	0.01783	0.28257	5.63753	0.0071	70.9751	25.068	1.38387	0.006700388	0.001500205	0.00020003	0.01002	0.025183459	0.39906	1.82434E-05
	n/a	1.12486	0.05261	0.41789	0.05769	0.000224439	0.003397151	604.096	0.00856	0.021283959	0.18885	4.22752	0.08435	83.388	0.70974	0.001002549	0.01783	0.28257	5.63753	0.0071	70.9751	25.068	1.38387	0.006700388	0.001500205	0.00020003	0.01002	0.025183459	0.39906	1.82434E-05
	n/a	1.12486	0.05261	0.41789	0.05769	0.000224439	0.003397151	604.096	0.00856	0.021283959	0.18885	4.22752	0.08435	83.388	0.70974	0.001002549	0.01783	0.28257	5.63784	0.0071	70.9751	25.068	1.38387	0.006700388	0.001500205	0.00020003	0.01002	0.025183459	0.39906	1.82434E-05
		Year 21 Historical Conditions																												
Junction 2	November	0.15189	0.00175	0.07832	0.00546	1.07299E-05	0.000112075	16.3314	0.00081	0.000556783	0.0142	0.28248	0.00242	2.25796	0.03735	2.73625E-05	0.00088	0.0096	0.14972	0.00041	2.15627	1.10951	0.0427	0.000420802	0.000155975	0.00034508	0.00229	0.000654556	0.02837	4.5346E-07
	December	0.3445	0.01176	0.14577	0.01578	5.28276E-05	0.000758693	131.989	0.00234	0.004635375	0.04865	1.06038	0.01854	18.2224	0.16983	0.000219265	0.00422	0.06333	1.2296	0.00172	15.7003	5.82791	0.30667	0.001658792	0.00042157	0.00031976	0.00383	0.005480854	0.10148	3.95376E-06
	January	0.33716	0.01137	0.14325	0.01538	5.11775E-05	0.000733243	127.428	0.00228	0.004474598	0.04731	1.03006	0.01791	17.5932	0.16465	0.000211703	0.00409	0.06122	1.18704	0.00167	15.167	5.64284	0.29627	0.001610468	0.000411342	0.00032145	0.00377	0.005290669	0.09863	3.8157E-06
	February	0.12906	0.00047	0.0707	0.0042	5.39875E-06	2.93861E-05	1.48517	0.00063	3.29734E-05	0.00992	0.18524	0.00035	0.20874	0.02062	2.73344E-06	0.00046	0.00273	0.01106	0.00024	0.42136	0.51056	0.0089	0.000265621	0.000123672	0.0003536	0.00212	3.46165E-05	0.01926	3.53566E-09
	March	0.4905	0.0194	0.19672	0.02361	8.49038E-05	0.00125173	220.213	0.00351	0.007746446	0.07486	1.65245	0.03084	30.4007	0.27075	0.000365635	0.00676	0.1043	2.05334	0.00273	26.0301	9.42374	0.50798	0.002601258	0.000623302	0.00029787	0.00499	0.009162685	0.15711	6.62402E-06
	April	0.12906	0.00047	0.0707	0.0042	5.39875E-06	2.93873E-05	1.48517	0.00063	3.29734E-05	0.00992	0.18524	0.00035	0.20874	0.02062	2.73344E-06	0.00046	0.00273	0.01106	0.00024	0.42136	0.51056	0.0089	0.000265629	0.000123672	0.0003536	0.00212	3.46165E-05	0.01926	3.53566E-09
	May	0.2537	0.00807	0.10979	0.01136	3.67201E-05	0.000520061	89.923	0.00169	0.003155046	0.03457	0.74871	0.01266	12.4155	0.11855	0.000149419	0.00294	0.04345	0.83731	0.00121	10.7337	4.03792	0.20976	0.001167582	0.000305252	0.00027093	0.00292	0.003729913	0.07189	2.68748E-06
	June	0.31415	0.01085	0.13243	0.01444	4.86135E-05	0.000699642	121.825	0.00215	0.004279088	0.04462	0.97343	0.01711	16.8193	0.15618	0.000202375	0.00388	0.05839	1.135	0.00158	14.484	5.36558	0.28289	0.001523533	0.00038548	0.00028444	0.00347	0.005059781	0.09311	3.65057E-06
	July	0.23991	0.00691	0.10675	0.01043	3.21059E-05	0.000445429	76.3125	0.00155	0.002673695	0.03118	0.66947	0.01077	10.5367	0.10428	0.000126853	0.00257	0.03727	0.71001	0.00107	9.15682	3.51422	0.17908	0.001039429	0.000282434	0.00029877	0.00289	0.003160072	0.06457	2.27258E-06
	August	0.21963	0.00579	0.09993	0.00931	2.74187E-05	0.000372844	63.2872	0.00138	0.002214162	0.0274	0.5838	0.00895	8.73886	0.08957	0.000105244	0.0022	0.03124	0.58835	0.00092	7.63433	2.98775	0.14941	0.00090275	0.000253857	0.00030555	0.00274	0.002616176	0.05654	1.87787E-06
	September	0.30837	0.01041	0.131	0.01407	4.68354E-05	0.000671123	116.639	0.00209	0.004095622	0.04329	0.9425	0.01639	16.1035	0.15067	0.00019377	0.00374	0.05603	1.08653	0.00153	13.8822	5.16419	0.27118	0.00147363	0.000376287	0.00029358	0.00345	0.004842698	0.09025	3.49269E-06
	October	0.29796	0.00977	0.12774	0.01347	4.41975E-05	0.000629766	109.184	0.002	0.003832328	0.04122	0.89508	0.01536	15.0744	0.14243	0.000181402	0.00353	0.0526	1.01687	0.00145	13.0131	4.86693	0.25425	0.00139775	0.000361043	0.00030075	0.00338	0.004531118	0.08582	3.26631E-06
Junction 3	November	0.25964	0.00762	0.11621	0.01208	4.25555E-05	0.000507347	84.2961	0.00167	0.002935448	0.03477	0.74285	0.01274	11.6732	0.1139	0.000137673	0.00298	0.04079	0.76849	0.00117	10.338	4.02643	0.21199	0.001162212	0.000359959	0.00032233	0.00785	0.003851546	0.07407	2.47344E-06
	December	0.58296	0.02479	0.23083	0.03125	0.000131461	0.001654284	282.955	0.00424	0.009898734	0.09506	2.09357	0.04241	39.1724	0.33923	0.000461618	0.00906	0.1323	2.58665	0.00343	34.127	12.4828	0.69839	0.00333077	0.000931841	0.00027477	0.02137	0.01297567	0.20671	8.3985E-06
	January	0.82572	0.03772	0.3163	0.04541	0.000195907	0.002512678	432.642	0.00617	0.015151729	0.14018	3.10643	0.06447	59.8827	0.50904	0.000706538	0.01358	0.20133	3.96216	0.00513	51.9695	18.7951	1.05985	0.004954503	0.001343743	0.00023408	0.02991	0.019726646	0.30532	1.28765E-05
	February	0.84385	0.03867	0.32262	0.0464	0.000200061	0.002574505	443.623	0.00631	0.015539388	0.14346	3.18037	0.06602	61.4017	0.5216	0.000724732	0.0139	0.20643	4.06438	0.00525	53.2636	19.2468	1.08535	0.005072469	0.001369922	0.00023126	0.03015	0.020193659	0.31233	1.32089E-05
	March	0.84935	0.03893	0.32444	0.04654	0.000199737	0.002587883	446.589	0.00636	0.015646386	0.14424	3.19891	0.06626	61.8003	0.52515	0.000730087	0.01396	0.20786	4.09504	0.00529	53.5608	19.3372	1.0892	0.005100342	0.001367	0.00023091	0.02928	0.020246263	0.31359	1.3305E-05
	April	0.34852	0.01205	0.14753	0.01642	5.7979E-05	0.000786313	135.4	0.00237	0.004745734	0.04994	1.08691	0.01948	18.7119	0.17323	0.000223578	0.0044	0.06473	1.25283	0.00176	16.2238	6.05022	0.32222	0.001705457	0.000456734	0.00031837	0.00643	0.005819569	0.10531	4.0365E-06
	May	0.37056	0.01464	0.14899	0.01803	6.60133E-05	0.000949179	166.224	0.00265	0.005842326	0.05672	1.25059	0.02351	22.9561	0.20429	0.00027535	0.00515	0.07866	1.54575	0.00206	19.7102	7.1574	0.38723	0.001970605	0.00048469	0.00022762	0.00502	0.007010427	0.11957	4.98974E-06
	June	0.36147	0.01385	0.1475	0.01763	6.51977E-05	0.000903303	156.897	0.00255	0.005506486	0.05466	1.20022	0.02249	21.6801	0.19442	0.000259122	0.00495	0.07434	1.45347	0.00197	18.7054	6.8521	0.37083	0.001891329	0.000486346	0.00024998	0.00652	0.006735028	0.11573	4.69308E-06
	July	0.31989	0.01155	0.13343	0.01529	5.50698E-05	0.000753399	130.209	0.00221	0.00456619	0.04687	1.02392	0.01871	17.9935	0.16431	0.000215012	0.00418	0.06201	1.20534	0.00167	15.5686	5.7617	0.30901	0.001609521	0.00042398	0.00026333	0.00587	0.005594632	0.09902	3.88716E-06
	August	0.40008	0.01556	0.16228	0.01959	7.26733E-05	0.001013896	176.447	0.00284	0.006194692	0.06095	1.34034	0.02523	24.3803	0.21771	0.000291517	0.00554	0.08351	1.63557	0.0022	21.0106	7.67421	0.41597	0.002113049	0.000537936	0.00026282	0.00696	0.007555752	0.12903	5.28212E-06
	September	0.41495	0.01639	0.1672	0.02039	7.59817E-05	0.001067337	186.11	0.00296	0.006535853	0.06372	1.40333	0.02656	25.7123	0.2286	0.000307605	0.00581	0.08799	1.72617	0.00231	22.1343	8.06021	0.43764	0.002213407	0.00055777	0.00025705	0.00696	0.007951118	0.13487	5.57569E-06
	October	0.38953	0.01495	0.15868	0.01891	6.93442E-05	0.000972831	169.39	0.00275	0.005947643	0.05886	1.29331	0.02416	23.4009	0.20986	0.000280084	0.00532	0.08029	1.57139	0.00212	20.1603	7.37213	0.39831	0.002037089	0.000517005	0.00026688	0.00636	0.007221083	0.12435	5.07224E-06
Junction 4	November	0.25909	0.0076	0.11596	0.01205	4.24645E-05	0.000506256	84.1157	0.00167	0.002929286	0.03469	0.74129	0.01272	11.6482	0.11366	0.000137378	0.00298	0.04071	0.76685	0.00117	10.3157	4.01792	0.21153	0.001159686	0.000359192	0.00032164	0.00784	0.003843215	0.07391	2.4681E-06
	December	0.58283	0.02478	0.23078	0.03124	0.000131434	0.001653947	282.895	0.00424	0.009896773	0.09505	2.09318	0.0424	39.1651	0.33916	0.000461517	0.00906	0.13227	2.58612	0.00343	34.1199	12.4802	0.69825	0.003330059	0.000931647	0.00027471	0.02136	0.012973052	0.20667	8.39683E-06
	January	0.82572	0.03772	0.31629	0.04541	0.000195898	0.002512678	432.642	0.00617	0.015151729	0.14018	3.10638	0.06447	59.8802	0.50904	0.000706518	0.01358	0.20132	3.96185	0.00513	51.9695	18.7948	1.05985	0.004954503	0.001343622	0.00023408	0.02991	0.019726408	0.30532	1.28765E-05
	February	0.84385	0.03867	0.32262	0.0464	0.000200061	0.002574505	443.623	0.00631	0.015539388	0.14346	3.18037	0.06602	61.4017	0.5216	0.000724732	0.0139	0.20643	4.06438	0.00525	53.2636	19.2468	1.08535	0.005072469	0.001369922	0.00023126	0.03015	0.020193659	0.31233	1.32089E-05
	March	0.84935	0.03893	0.32444	0.04654	0.000199737	0.002587883	446.589	0.00636	0.015646386	0.14424	3.19891	0.06626	61.8003	0.52515	0.000730087	0.01396	0.20786	4.09504	0.00529	53.5608	19.3372	1.0892	0.005100342	0.001367	0.00023091	0.02928	0.020246263	0.31359	1.3305E-05
	April	0.34852	0.01205	0.14753	0.01642	5.7979E-05	0.000786313	135.4	0.00237	0.004745734	0.04994	1.08691	0.01948	18.7119	0.17323	0.000223578	0.0044	0.06473	1.25283	0.00176	16.2238	6.05022	0.32222	0.001705457	0.000456734	0.00031837	0.00643	0.005819569	0.10531	4.0365E-06
	May	0.36128	0.01428	0.14526	0.01758	6.43605E-05	0.000925426	162.063	0.00258	0.005696114	0.0553	1.21932	0.02292	22.3815	0.19918	0.00026847	0.00502	0.07669	1.50706	0.00201	19.2168	6.97831	0.37754	0.001921255	0.000472563	0.00022192	0.00489	0.006835	0.11657	4.86485E-06
	June	0.35524	0.01361	0.14496	0.01733	6.40748E-05	0.000887733	154.196	0.0025	0.005411812	0.05372	1.17956	0.0221	21.3065	0.19107	0.000254649	0.00487	0.07306	1.42842	0.00193	18.3828	6.73416	0.36445	0.001858718	0.000477969	0.00024567	0.0064	0.00661857	0.11374	4.61224E-06
	July	0.31458	0.01136	0.13121	0.01504	5.41569E-05	0.000740909	128.049	0.00217	0.00449063	0.04609	1.00694	0.0184	17.6953	0.16158	0.000211442	0.00411	0.06098	1.18537	0.00164	15.3105	5.66629	0.30388	0.001582832	0.000416943	0.00025897	0.00577	0.005502038	0.09738	3.8227E-06
	August	0.39479	0.01536	0.16013	0.01933	7.17126E-05	0.001000485	174.115	0.0028	0.006112622	0.06014	1.32258	0.0249	24.0568	0.21484	0.000287666	0.00546	0.08241	1.61395	0.00217	20.7307	7.5726	0.41046	0.002085018	0.000530825	0.00025934	0.00687	0.00745578	0.12732	5.2122E-06
	September	0.40928	0.01617	0.16492	0.02011	7.49453E-05	0.00105278	183.569	0.00292	0.006446782	0.06285	1.38417	0.0262	25.3623	0.22549	0.000303412	0.00573	0.08679	1.70263	0.00228	21.8325	7.95032	0.43168	0.002183244	0.00055016	0.00025356	0.00687	0.007842815	0.13304	5.49972E-06
	October	0.3854	0.01479	0.15699	0.01871	6.86106E-05	0.000962534	167.594	0.00272	0.005884621	0.05823	1.27963	0.0239	23.1534	0.20764	0.000277115	0.00526	0.07944	1.55476	0.0021	19.9468	7.29419	0.3941	0.002015533	0.000511526	0.00026406	0.00629	0.007144676	0.12303	5.01858E-06
Junction 5	November	0.25893	0.0076	0.11589	0.01205	4.24384E-05	0.000505953	84.0636	0.00167	0.002927325	0.03467	0.74084	0.01271	11.6411	0.11359	0.000137294	0.00298	0.04068	0.76635	0.00117	10.3094	4.01539	0.2114	0.001158975	0.000358973	0.00032145	0.00783	0.003841073	0.07387	2.46656E-06
	December	0.58277	0.02478	0.23076	0.03124	0.000131425	0.001653722	282.871	0.00424	0.009895933	0.09503	2.09296	0.0424	39.1626	0.33913	0.000461477	0.00906	0.13226	2.58588	0.00343	34.1172	12.4791	0.69819	0.003329743	0.000931574	0.00027469	0.02136	0.012971862	0.20665	8.39612E-06
	January	0.82572	0.03772	0.31629	0.04541	0.000195898	0.002512678	432.642	0.00617	0.015151449	0.14018	3.10638	0.06446	59.8802	0.50903	0.000706518	0.01358	0.20132	3.96185	0.00513	51.9695	18.7946	1.05985	0.004954424	0.001343622	0.00023408	0.0299	0.01972617	0.30532	1.28765E-05
	February	0.84385	0.03867	0.32262	0.0464	0.000200061	0.002574505	443.623	0.00631	0.015539388	0.14346	3.18037	0.06602	61.4017	0.5216	0.000724732	0.0139	0.20643	4.06438	0.00525	53.2636	19.2468	1.08535	0.005072469	0.001369922	0.00023126	0.03015	0.020193659	0.31233	1.32089E-05
	March	0.84935	0.03893	0.32444	0.04654	0.000199737	0.002587883	446.589	0.00636	0.015646386	0.14424	3.19891	0.06626	61.8003	0.52515	0.000730087	0.01396	0.20786	4.09504	0.00529	53.5608	19.3372	1.0892	0.005100342	0.001367	0.00023091	0.02928	0.020246263	0.31359	1.3305E-05
	April	0.34852	0.01205	0.14753	0.01642	5.7979E-05	0.000786313	135.4	0.00237	0.004745734	0.04994	1.08691	0.01948	18.7119	0.17323	0.000223578	0.0044	0.06473	1.25283	0.00176	16.2238	6.05022	0.32222	0.001705457	0.000456734	0.00031837	0.00643	0.005819569	0.10531	4.0365E-06
	May	0.35786	0.01414	0.14388	0.01741	6.37513E-05	0.000916657	160.528	0.00255	0.005642054	0.05478	1.20778	0.0227	22.1696	0.19729	0.000265922	0.00497	0.07597	1.49281	0.00199	19.0346	6.9121	0.37396	0.001903094	0.000468082	0.00021981	0.00484	0.006770256	0.11547	4.8188E-06
	June	0.35292	0.01352	0.14401	0.01722	6.36557E-05	0.000881933	153.186	0.00249	0.005376239	0.05337	1.17185	0.02195	21.1672	0.18982	0.000252984	0.00483	0.07258	1.41909	0.00192	18.2628	6.69002	0.36206	0.001846559	0.00047484	0.00024405	0.00636	0.006575549	0.11299	4.58209E-06
	July	0.31261	0.01129	0.13039	0.01495	5.38153E-05	0.000736233	127.244	0.00216	0.004462273	0.0458	1.00057	0.01828	17.5837	0.16057	0.000210118	0.00408	0.0606	1.17787	0.00163	15.2139	5.63042	0.30197	0.001572883	0.000414325	0.00025734	0.00573	0.005467286	0.09676	3.7986E-06
	August	0.39262	0.01528	0.15932	0.01923	7.13512E-05	0.000995448	173.237	0.00278	0.006082091	0.05984	1.31593	0.02477	23.9358	0.21375	0.000286222	0.00544	0.08199	1.60583	0.00216	20.6283	7.53444	0.4084	0.002074595	0.000528158	0.00025803	0.00683	0.007418171	0.12668	5.18597E-06
	September	0.40715	0.01609	0.16406	0.02001	7.45569E-05	0.001047328	182.619	0.0029	0.00641345	0.06252	1.37703	0.02606	25.231	0.22432	0.000301828	0.0057	0.08634	1.6938	0.00226	21.7191	7.90917	0.42943	0.002171874	0.000547311	0.00025225	0.00683	0.007802112	0.13234	5.47123E-06
	October	0.38384	0.01474	0.15637	0.01864	6.8334E-05	0.000958655	166.921	0.00271	0.005860812	0.058	1.27444	0.0238	23.0601	0.2068	0.000275992	0.00524	0.07912	1.5485	0.00209	19.8666	7.26477	0.39251	0.0020074	0.000509468	0.000263	0.00627	0.007115874	0.12254	4.9984E-06

Notes: [a] Regulation criteria applies to total concentrations.

CCME criteria for:

Aluminium depends on pH conditions. Values are provided for reference given [b] pH<6.5 and [c] pH>=6.5

Cadmium depends on hardness concentrations. Values are provided for reference given a hardness of [d] 0–17, [e] >=280 and [f] 40 mg/L.

Copper depends on hardness concentrations. Values are provided for reference given a hardness of [g] 0–82 and [h] >=180 mg/L.

Manganese depends on hardness concentrations and pH conditions. Values are provided for reference given a hardness of [i] 10-24 and [j] >=670 mg/L and pH of [i] 6.7-6.9 and [j] 6.5-6.7.

Nickel depends on hardness concentrations. Values are provided for reference given a hardness of [k] <=60 and [l] >=180 mg/L.

Lead depends on hardness concentrations. Values are provided for reference given a hardness of [m] <=60 and [n] >=180 mg/L.

Zinc depends on hardness and DOC concentrations, and pH conditions. Values are provided for reference given a pH of [o,p,q] 6.5-6.7, [o,p,q] DOC 8 mg/L and hardness [o] 8, [p] 399, and [q] 38 mg/L.

Table V: Dissolved Metals. Climate Change Conditions. No precipitation. Effluent pH of 6.5

Regulation[a]		Al mg/L	As mg/L	B mg/L	Ba mg/L	Be mg/L	Cd mg/L	Ca mg/L	Cr mg/L	Co mg/L	Cu mg/L	Fe mg/L	Li mg/L	Mg mg/L	Mn mg/L	Hg mg/L	Mo mg/L	Ni mg/L	P mg/L	Pb mg/L	K mg/L	Na mg/L	Sr mg/L	Se mg/L	Sb mg/L	Tl mg/L	Ti mg/L	U mg/L	Zn mg/L	Sn mg/L
MDMER			0.1								0.1							0.25		0.08									0.4	
Directive 019 (2025)			0.1								0.1	3						0.25		0.08									0.4	
CVAC (hardness 10mg/L)			0.15		0.038	0.000138	0.00005			0.1	0.0013	0.65	0.44		0.26	0.00091	3.2	0.007		0.00017			21	0.005	0.24	0.0072		0.014	0.017	
CVAA (hardness 10mg/L)			0.34		0.11	0.00124	0.0002			0.37	0.0016	3.4	0.91		0.6	0.0016	29	0.07		0.004			40	0.062	1.1	0.047		0.32	0.017	
CVAC (hardness 90mg/L)					0.391	0.005583018	0.000250301				0.00853				1.75906			0.04771		0.00278									0.10958	
CVAA (hardness 90mg/L)					1.12	0.050245928	0.001916511				0.01268				3.79535			0.42916		0.0714									0.10958	
CVAC (hardness 400mg/L)					1.911	0.068822	0.0076				0.0305				6.52			0.169		0.01858									0.388	
CVAA (hardness 400mg/L)					5.45	0.61939	0.0087				0.0517				14.1			1.52		0.477									0.388	
CCME (long-term)		0.005[b]	0.005	1.5			0.00004[d]				0.002[g]	0.3			0.23[i]	0.000026	0.073	0.025[k]		0.001[m]				0.001		0.0008		0.015	0.02[o]	
CCME (long-term)		0.1[c]					0.00037[e]				0.004[h]				1.2[j]			0.15[l]		0.007[n]									0.312[p]	
CCME (long-term)							0.00007[f]																						0.037[q]	
Station	**Time**															**Effluent**														
Junction 6	November	0.25893	0.0076	0.11589	0.01205	4.24384E-05	0.000505953	84.0636	0.00167	0.002927325	0.03467	0.74084	0.01271	11.6411	0.11359	0.000137294	0.00298	0.04068	0.76635	0.00117	10.3094	4.01539	0.2114	0.001158975	0.000358973	0.00032145	0.00783	0.003841073	0.07387	2.46656E-06
	December	0.58277	0.02478	0.23076	0.03124	0.000131425	0.001653722	282.871	0.00424	0.009895933	0.09503	2.09296	0.0424	39.1626	0.33913	0.000461477	0.00906	0.13226	2.58588	0.00343	34.1172	12.4791	0.69819	0.003329743	0.000931574	0.00027469	0.02136	0.012971862	0.20665	8.39612E-06
	January	0.82572	0.03772	0.31629	0.04541	0.000195898	0.002512678	432.642	0.00617	0.015151449	0.14018	3.10638	0.06446	59.8802	0.50903	0.000706518	0.01358	0.20132	3.96185	0.00513	51.9695	18.7946	1.05985	0.004954424	0.001343622	0.00023408	0.0299	0.01972617	0.30532	1.28765E-05
	February	0.84385	0.03867	0.32262	0.0464	0.000200061	0.002574505	443.623	0.00631	0.015539388	0.14346	3.18037	0.06602	61.4017	0.5216	0.000724732	0.0139	0.20643	4.06438	0.00525	53.2636	19.2468	1.08535	0.005072469	0.001369922	0.00023126	0.03015	0.020193659	0.31233	1.32089E-05
	March	0.84935	0.03893	0.32444	0.04654	0.000199737	0.002587883	446.589	0.00636	0.015646386	0.14424	3.19891	0.06626	61.8003	0.52515	0.000730087	0.01396	0.20786	4.09504	0.00529	53.5608	19.3372	1.0892	0.005100342	0.001367	0.00023091	0.02928	0.020246263	0.31359	1.3305E-05
	April	0.34852	0.01205	0.14753	0.01642	5.7979E-05	0.000786313	135.4	0.00237	0.004745734	0.04994	1.08691	0.01948	18.7119	0.17323	0.000223578	0.0044	0.06473	1.25283	0.00176	16.2238	6.05022	0.32222	0.001705457	0.000456734	0.00031837	0.00643	0.005819569	0.10531	4.0365E-06
	May	0.35786	0.01414	0.14388	0.01741	6.37513E-05	0.000916657	160.528	0.00255	0.005642054	0.05478	1.20776	0.0227	22.1696	0.19729	0.000265922	0.00497	0.07597	1.49281	0.00199	19.0346	6.9121	0.37396	0.001903094	0.000468082	0.00021981	0.00484	0.006770256	0.11547	4.8188E-06
	June	0.35292	0.01352	0.14401	0.01722	6.36557E-05	0.000881933	153.186	0.00249	0.005376239	0.05337	1.17185	0.02195	21.1672	0.18982	0.000252984	0.00483	0.07258	1.41909	0.00192	18.2628	6.69002	0.36206	0.001846559	0.00047484	0.00024407	0.00636	0.006575549	0.11299	4.58209E-06
	July	0.31261	0.01129	0.13039	0.01495	5.38153E-05	0.000736233	127.244	0.00216	0.004462273	0.0458	1.00057	0.01828	17.5837	0.16057	0.000210118	0.00408	0.0606	1.17787	0.00163	15.2139	5.63042	0.30197	0.001572883	0.000414325	0.00025734	0.00573	0.005467286	0.09676	3.7986E-06
	August	0.39282	0.01528	0.15932	0.01923	7.13512E-05	0.000995448	173.237	0.00278	0.006082091	0.05984	1.31593	0.02477	23.9358	0.21375	0.000286222	0.00544	0.08199	1.60583	0.00216	20.6283	7.53444	0.4084	0.002074595	0.000528158	0.00025803	0.00683	0.007418171	0.12668	5.18597E-06
	September	0.40715	0.01609	0.16406	0.02001	7.45569E-05	0.001047328	182.619	0.0029	0.00641345	0.06252	1.37703	0.02606	25.231	0.22432	0.000301828	0.0057	0.08634	1.6938	0.00226	21.7191	7.90917	0.42943	0.002171874	0.000547311	0.00025225	0.00683	0.007802112	0.13234	5.47123E-06
	October	0.38384	0.01474	0.15637	0.01864	6.8334E-05	0.000958655	166.921	0.00271	0.005860812	0.058	1.27444	0.0238	23.0601	0.2068	0.000275992	0.00524	0.07912	1.5485	0.00209	19.8666	7.26477	0.39251	0.0020074	0.000509468	0.000263	0.00627	0.007115874	0.12254	4.9984E-06
OutletSP04	November	1.123	0.0525	0.41716	0.05758	0.000223998	0.003390181	602.813	0.00855	0.021239423	0.18846	4.21931	0.08417	83.213	0.70832	0.001000443	0.01779	0.28198	5.62576	0.00708	70.8266	25.0152	1.38098	0.006686333	0.001497161	0.00020035	0.01001	0.025131092	0.39824	1.82054E-05
	December	0.23934	0.00022	0.0707	0.00567	1.30091E-05	7.93946E-05	0.57175	0.00013	4.81744E-05	0.00808	0.31471	0.00035	0.32335	0.01762	2.18001E-06	0.00017	0.00077	0.02712	0.00044	0.51668	0.8317	0.017	8.91222E-06	6.74733E-05	0.00035356	0.00212	0.000137981	0.0087	3.53578E-09
	January	0.23934	0.00022	0.0707	0.00567	1.30091E-05	7.93946E-05	0.57175	0.00013	4.81744E-05	0.00808	0.31471	0.00035	0.32335	0.01762	2.18001E-06	0.00017	0.00077	0.02712	0.00044	0.51668	0.8317	0.017	8.91222E-06	6.74733E-05	0.00035356	0.00212	0.000137981	0.0087	3.53578E-09
	February	0.23934	0.00022	0.0707	0.00567	1.30091E-05	7.93946E-05	0.57175	0.00013	4.81744E-05	0.00808	0.31471	0.00035	0.32335	0.01762	2.18001E-06	0.00017	0.00077	0.02712	0.00044	0.51668	0.8317	0.017	8.91222E-06	6.74733E-05	0.00035356	0.00212	0.000137981	0.0087	3.53578E-09
	March	0.23934	0.00022	0.0707	0.00567	1.30091E-05	7.93946E-05	0.57175	0.00013	4.81744E-05	0.00808	0.31471	0.00035	0.32335	0.01762	2.18001E-06	0.00017	0.00077	0.02712	0.00044	0.51668	0.8317	0.017	8.91222E-06	6.74733E-05	0.00035356	0.00212	0.000137981	0.0087	3.53578E-09
	April	0.23934	0.00022	0.0707	0.00567	1.30091E-05	7.93946E-05	0.57175	0.00013	4.81744E-05	0.00808	0.31471	0.00035	0.32335	0.01762	2.18001E-06	0.00017	0.00077	0.02712	0.00044	0.51668	0.8317	0.017	8.91222E-06	6.74733E-05	0.00035356	0.00212	0.000137981	0.0087	3.53578E-09
	May	1.09661	0.05094	0.40681	0.05603	0.000217698	0.003291257	584.818	0.0083	0.020606677	0.18308	4.10271	0.08167	80.7388	0.68766	0.000970635	0.01727	0.27358	5.45882	0.00689	68.727	24.2933	1.34032	0.006486959	0.001454423	0.00020494	0.00977	0.024383682	0.38661	1.76617E-05
	June	1.09086	0.0506	0.40455	0.05569	0.000216319	0.003269786	580.931	0.00824	0.020468588	0.1819	4.07724	0.08113	80.1968	0.68315	0.000964116	0.01715	0.27175	5.42227	0.00684	68.2695	24.137	1.33139	0.006443452	0.001445169	0.00020594	0.00972	0.024221822	0.38407	1.7543E-05
	July	1.08822	0.05044	0.40352	0.05554	0.000215689	0.003259781	579.087	0.00822	0.020405005	0.18136	4.06552	0.08088	79.9489	0.68107	0.000961127	0.0171	0.27091	5.40554	0.00682	68.0584	24.0634	1.32727	0.006423396	0.001440786	0.00020639	0.0097	0.024145653	0.3829	1.74884E-05
	August	1.07786	0.04983	0.39945	0.05493	0.00021321	0.003220998	572.033	0.00812	0.020156556	0.17924	4.01972	0.07989	78.9767	0.67299	0.000949413	0.01689	0.26761	5.33988	0.00674	67.2334	23.7806	1.31132	0.006345068	0.001424105	0.00020818	0.0096	0.023852877	0.37833	1.72747E-05
	September	0.99521	0.04494	0.36706	0.05007	0.000193483	0.00291141	515.724	0.00733	0.018175129	0.16238	3.65466	0.07205	71.2258	0.60844	0.000856078	0.01524	0.24131	4.81642	0.00612	60.661	21.5189	1.18375	0.00572081	0.001290412	0.00022251	0.00887	0.021516147	0.34191	1.55724E-05
	October	1.08989	0.05054	0.40418	0.05564	0.000216085	0.003266076	580.249	0.00823	0.020445339	0.1817	4.07294	0.08104	80.1068	0.68239	0.000963033	0.01713	0.27144	5.41607	0.00683	68.1913	24.1094	1.3299	0.006436109	0.001443587	0.0002061	0.00971	0.024193258	0.38364	1.75228E-05
Lake A	November	0.4238	0.01581	0.1663	0.02011	7.41432E-05	0.001036761	179.465	0.00284	0.006308692	0.06188	1.38278	0.02558	24.8227	0.2216	0.000296933	0.00559	0.08482	1.66859	0.00227	21.3719	7.8402	0.42273	0.002118971	0.000535963	0.00027318	0.00654	0.00765858	0.12986	5.37982E-06
	December	0.45437	0.01751	0.1784	0.02215	8.42693E-05	0.001152131	199.047	0.0031	0.006990176	0.06808	1.51675	0.02868	27.5351	0.2439	0.000328346	0.00623	0.09383	1.84405	0.00249	23.7624	8.70324	0.47345	0.002344796	0.000605208	0.00027277	0.00886	0.00862831	0.14401	5.95521E-06
	January	0.51038	0.02055	0.1991	0.02559	0.000100513	0.001355263	234.116	0.00356	0.008216734	0.07887	1.75498	0.03399	32.3888	0.28377	0.000385313	0.00732	0.10999	2.16321	0.00289	27.9807	10.2075	0.56046	0.002734938	0.000712333	0.0002669	0.01167	0.010268329	0.16798	6.99712E-06
	February	0.55717	0.02308	0.21635	0.02846	0.000113941	0.001524559	263.369	0.00395	0.009240219	0.08785	1.95357	0.0384	36.4381	0.31703	0.000432853	0.00823	0.12347	2.42971	0.00322	31.4952	11.4595	0.63281	0.003059858	0.000800779	0.0002619	0.01395	0.011630569	0.18792	7.86679E-06
	March	0.60441	0.02563	0.23373	0.03132	0.000127198	0.001694304	292.822	0.00434	0.010271547	0.09687	2.15333	0.04282	40.514	0.35055	0.000480814	0.00914	0.13707	2.69862	0.00355	35.0258	12.7145	0.70511	0.0033862	0.000887923	0.00025687	0.01606	0.012988524	0.20788	8.74394E-06
	April	0.4983	0.01999	0.19806	0.02511	9.81156E-05	0.00131648	227.455	0.00353	0.007977808	0.07737	1.7102	0.03309	31.458	0.277	0.00037412	0.00717	0.10705	2.099	0.00281	27.2081	9.94032	0.54545	0.002688193	0.000706805	0.00028297	0.01184	0.009994596	0.16519	6.79092E-06
	May	0.42588	0.01583	0.16199	0.02001	7.45298E-05	0.001043292	180.127	0.00276	0.006337823	0.06129	1.38669	0.02565	24.9345	0.22093	0.000298157	0.00555	0.08486	1.67754	0.00228	21.4439	7.86296	0.42434	0.002087544	0.000523288	0.00024892	0.00628	0.007690238	0.1281	5.40617E-06
	June	0.4412	0.01665	0.16752	0.02079	7.73966E-05	0.001094822	189.613	0.00289	0.006673383	0.06408	1.44912	0.02691	26.2397	0.23188	0.000314084	0.00582	0.08931	1.76715	0.00239	22.5363	8.23608	0.44486	0.002189087	0.000541601	0.00024681	0.00605	0.008058231	0.13392	5.69594E-06
	July	0.40038	0.01449	0.153	0.01855	6.80699E-05	0.000954979	164.66	0.00256	0.005794429	0.05662	1.28175	0.0234	22.7949	0.20332	0.000272782	0.00509	0.07772	1.53494	0.0021	19.6062	7.21396	0.3874	0.001919991	0.000482023	0.00025235	0.00553	0.007003287	0.11797	4.94237E-06
	August	0.41255	0.01515	0.15816	0.01926	7.08952E-05	0.000996528	172.131	0.00267	0.006056602	0.05899	1.33218	0.02446	23.823	0.2121	0.000285099	0.00532	0.08123	1.60388	0.00219	20.4859	7.52225	0.40469	0.002007005	0.000502589	0.00025487	0.00577	0.007321055	0.12313	5.16662E-06
	September	0.39404	0.01419	0.15147	0.01827	6.69857E-05	0.000934925	161.045	0.00252	0.005665583	0.05566	1.25763	0.02292	22.2945	0.19933	0.000266684	0.005	0.07606	1.50025	0.00206	19.1914	7.07211	0.37964	0.001886986	0.000477336	0.00025613	0.00568	0.006864754	0.11608	4.83078E-06
	October	0.39765	0.01443	0.15374	0.01851	6.77374E-05	0.000949213	163.819	0.00258	0.005762777	0.0566	1.27511	0.02329	22.6719	0.20274	0.000271318	0.00508	0.0774	1.52595	0.00209	19.5101	7.17925	0.38553	0.001923545	0.000484897	0.00025887	0.00565	0.006970201	0.11814	4.91459E-06
Junction 26	May	0.36034	0.01247	0.14302	0.01661	5.97354E-05	0.000821207	140.962	0.00231	0.004953288	0.05024	1.12366	0.02016	19.5104	0.17729	0.000233226	0.00446	0.0669	1.31065	0.00183	16.8486	6.26011	0.33403	0.001698035	0.000441745	0.00027729	0.00569	0.006030938	0.10491	4.21812E-06
	June	0.37256	0.0131	0.14624	0.01714	6.15649E-05	0.00086054	148.245	0.0024	0.005213221	0.05217	1.17118	0.02107	20.5154	0.18542	0.000245622	0.00464	0.07027	1.381	0.00191	17.6736	6.53737	0.349	0.001766098	0.000449708	0.0002703	0.00519	0.00629396	0.10871	4.44426E-06
	July	0.34134	0.01144	0.13509	0.01543	5.44372E-05	0.000753635	129.167	0.00214	0.004541261	0.04646	1.04324	0.01838	17.8817	0.16358	0.00021403	0.00408	0.06141	1.20345	0.0017	15.4329	5.75572	0.30507	0.001560092	0.000404073	0.00027438	0.00479	0.005487518	0.09649	3.86805E-06
	August	0.35235	0.01203	0.13959	0.01606	5.69903E-05	0.000791203	135.9	0.00224	0.004777666	0.04858	1.0887	0.01934	18.8096	0.17146	0.000225162	0.00428	0.06456	1.26571	0.00177	16.2262	6.03366	0.32066	0.001637315	0.000422142	0.00027584	0.00499	0.005774105	0.10108	4.07057E-06
	September	0.33743	0.01126	0.13422	0.01526	5.38298E-05	0.000741483	126.959	0.00212	0.004462273	0.04589	1.02855	0.0181	17.5764	0.16115	0.000210299	0.00403	0.0604	1.18211	0.00167	15.1819	5.67043	0.30044	0.001540589	0.000401784	0.00027696	0.00492	0.005405637	0.0954	3.79967E-06
Junction 27	May	0.3659	0.01278	0.14565	0.01698	6.13892E-05	0.000841554	144.521	0.00237	0.005077093	0.05142	1.14795	0.0207	20.0011	0.1815	0.000238983	0.00457	0.06857	1.34268	0.00187	17.2783	6.41392	0.34289	0.001742094	0.00045436	0.00027941	0.00602	0.006198035	0.1076	4.32306E-06
	June	0.36544	0.01273	0.14402	0.01677	5.99211E-05	0.000836214	143.952	0.00234	0.005061687	0.05094	1.14231	0.02046	19.9211	0.1806	0.000238502	0.00452	0.0683	1.34089	0.00187	17.1685	6.36104	0.33905	0.001722197	0.000440162	0.00027273	0.0051	0.006110678	0.10609	4.31428E-06
	July	0.33522	0.01113	0.13323	0.0151	5.30205E-05	0.000732714	125.48	0.0021	0.004411015	0.04541	1.01845	0.01786	17.3713	0.15945	0.000207932	0.00398	0.05971	1.16901	0.00166	14.9993	5.60422	0.29651	0.001522665	0.000395964	0.00027667	0.00471	0.005329943	0.09426	3.75646E-06
	August	0.34609	0.01171	0.13767	0.01573	5.55439E-05	0.000769845	132.133	0.00219	0.004644618	0.04749	1.06334	0.01881	18.2883	0.16723	0.000218924	0.00418	0.06283	1.23056	0.00173	15.7832	5.87871	0.31193	0.001598861	0.000413777	0.000278	0.00491	0.005613198	0.09878	3.95649E-06
	September	0.33155	0.01095	0.13242	0.01495	5.24617E-05	0.000721372	123.416	0.00208	0.004337349	0.04488	1.00476	0.0176	17.0859	0.15718	0.000204441	0.00393	0.05877	1.14903	0.00163	14.7651	5.5249	0.2922	0.001504583	0.00039393	0.00027913	0.00484	0.005254012	0.09324	3.69247E-06
Junction 28	May	0.17499	0.00286	0.08533	0.00668	1.63003E-05	0.000187057	29.2489	0.00097	0.001011833	0.01799	0.37214	0.00431	4.05019	0.05187	4.85749E-05	0.00126	0.01551	0.2694	0.00056	3.69455	1.65724	0.0738	0.000552981	0.000188363	0.00033962	0.00291	0.001232728	0.03646	8.41666E-07
	June	0.1736	0.00278	0.08452	0.00656	1.56722E-05	0.000181414	28.3287	0.00095	0.00098049	0.01765	0.36558	0.00414	3.92307	0.05077	4.71587E-05	0.00122	0.01508	0.26163	0.00055	3.57691	1.61289	0.07111	0.000540079	0.00018331	0.00033838	0.00268	0.001179481	0.03562	8.15775E-07
	July	0.17177	0.00268	0.08366	0.00646	1.52648E-05	0.000175096	27.1733	0.00093	0.000939988	0.01727	0.35787	0.00398	3.76436	0.04938	4.52471E-05	0.00119	0.01454	0.25096	0.00053	3.44159	1.56586	0.06849	0.000526063	0.000180083	0.00033766	0.00266	0.001131661	0.0348	7.81041E-07
	August	0.1731	0.00275	0.08429	0.00654	1.55749E-05	0.000179649	27.9981	0.00094	0.000968838	0.01754	0.36344	0.0041	3.87762	0.05037	4.66051E-05	0.00121	0.01493	0.25853	0.00054	3.53879	1.59995	0.07039	0.000536186	0.000182543	0.00033827	0.00269	0.001166699	0.0354	8.0572E-07
	September	0.16942	0.00256	0.083	0.00634	1.478E-05	0.000167328	25.7906	0.00091	0.00089097	0.01689	0.3486	0.00379	3.57308	0.04784	4.29403E-05	0.00115	0.0139	0.23791	0.00052	3.28058	1.51008	0.06537	0.0005126	0.00017755	0.00033877	0.00266	0.001075034	0.03401	7.38875E-07
	October	0.17709	0.00297	0.08555	0.00676	1.65473E-05	0.00019388	30.5158	0.00097	0.00105763	0.01827	0.38014	0.00446	4.22591	0.05319	5.07653E-05	0.00128	0.01608	0.28197	0.00057	3.83503	1.70315	0.07625	0.000562116	0.000188277	0.00033666	0.00275	0.001274907	0.03694	8.8179E-07

Notes: [a] Regulation criteria applies to total concentrations.

CCME criteria for:

Aluminium depends on pH conditions. Values are provided for reference given [b] pH<6.5 and [c] pH>=6.5

Cadmium depends on hardness concentrations. Values are provided for reference given a hardness of [d] 0--17, [e] >=280 and [f] 40 mg/L.

Copper depends on hardness concentrations. Values are provided for reference given a hardness of [g] 0--82 and [h] >=180 mg/L.

Manganese depends on hardness concentrations and pH conditions. Values are provided for reference given a hardness of [i] 10-24 and [j] >=670 mg/L and pH of [i] 6.7-6.9 and [j] 6.5-6.7.

Nickel depends on hardness concentrations. Values are provided for reference given a hardness of [k] <=60 and [l] >=180 mg/L.

Lead depends on hardness concentrations. Values are provided for reference given a hardness of [m] <=60 and [n] >=180 mg/L.

Zinc depends on hardness and DOC concentrations, and pH conditions. Values are provided for reference given a pH of [o,p,q] 6.5-6.7, [o,p,q] DOC 8 mg/L and hardness [o] 8, [p] 399, and [q] 38 mg/L.

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