BW GOLD LTD
a subsidiary company of Artemis Gold Inc

Blackwater Gold Project Dissolved Aluminum Science Based Environmental Benchmark Submission Summary

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LORAX ENVIRONMENTAL

Executive Summary

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This document presents an updated submission summary for the dissolved aluminum (D-Al) Science Based Environmental Benchmark (SBEB) submitted to the British Columbia Ministry of Environment and Climate Change Strategy (BC ENV) as part of BW Gold's Joint Application for *Mines Act*/*Environmental Management Act* permits (the Application). Dissolved aluminum SBEB's are proposed for the receiving environment of the Blackwater Gold (BW) Project (the Project), owned by BW Gold Ltd. (a subsidiary of Artemis Gold Inc.). This update consolidates the key outcomes from various rounds of comments and meetings through the Mines Review Committee (MRC) application review process and incorporates minor changes to the SBEB derivation approach, proposed values, and their application from those originally presented in Lorax (2022a) based on BC ENV input during the Application Technical Review process.

The Project is a proposed open pit gold mine located on the Nechako Plateau in central British Columbia (BC), approximately 110 km southwest of Vanderhoof and 160 km southwest of the city of Prince George. The mine footprint will mainly occur within two catchments: the headwaters of the Davidson Creek and, to lesser extent, Creek 661. Creek 661 flows into Chedakuz Creek, which flows into Tatelkuz Lake. Davidson Creek originates in the summit area of Mount Davidson and reports to Chedakuz Creek downstream of Tatelkuz Lake and upstream of the Turtle Creek confluence.

Baseline surface water quality monitoring in the Project area identified concentrations of D-Al routinely above BC short-term and long-term water quality guidelines (WQGs) in Davidson Creek and Creek 661. Condition 26 of the Environmental Assessment Certificate M19-01 for the Blackwater Gold Project states that BC water quality guidelines or approved SBEBs must not be exceeded in the mine's receiving environment. Further, a problem formulation and conceptual model developed as part of the SBEB Development Plan (Lorax 2021), the operable pathway applicable to D-Al relates to surface water. Thus, the development of an SBEB is warranted for D-Al. Although the original SBEB submission summary (Lorax 2022a) included proposed D-Al SBEBs for both Davidson Creek and Creek 661, subsequent discussions with BC ENV resulted in Creek 661 SBEBs no longer being proposed at this time. Therefore, D-Al SBEBs only for Davidson Creek are proposed in this submission summary.

For Davidson Creek, the background concentration approach (95th percentile concentration plus 20%) was used to derive station-specific D-Al SBEBs for stations WQ28, WQ27, WQ26 and WQ7 using available baseline water quality data (up to July 2022). The SBEB values were derived for two distinctive flow periods (freshet/summer (April 1st to July 31st),

fall (August 1st to December 31st) based on annual trends in D-Al concentrations. Outside of these periods, the BC WQG is proposed to apply. The proposed station-specific D-Al SBEBs for Davidson Creek are as follows:

Data period	Calculated using baseline data from April 2011 to July 2022			
	WQ28	**WQ27**	**WQ26**	**WQ7**
April 1 – July 31	0.28	0.26	0.25	0.23
August 1 – December 31	0.13	0.11	0.090	0.079

In support of BW Gold's Application, a predictive water balance and water quality model was developed that included predictions for D-Al in the Project receiving environment. Predicted D-Al concentrations screened against the proposed SBEB for Davidson Creek remain below the SBEB value through all mine phases (Construction, Operations, Closure, Post-Closure).

The proposed D-Al SBEB is implicitly protective of water for the purpose of source drinking water, in that the proposed values are more stringent than guidelines for drinking water (guidelines values for human and wildlife receptors are 9.5 mg D-Al/L and 5 T-Al mg/L, respectively). Based on this, the proposed SBEB values are expected to protect aquatic, human and wildlife receptors against adverse effects that may occur due to D-Al exposures.

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1. Introduction

1.1 Overview

This document has been prepared by Lorax Environmental Services Ltd. (Lorax) on behalf of BW Gold Ltd. (BW Gold; a subsidiary of Artemis Gold Inc.) and presents the updated submission summary for the proposed dissolved aluminum (D-Al) Science Based Environmental Benchmark (SBEB) for BW Gold's Blackwater Gold Mine Project (the Project). Condition 26 of Schedule B of the Environmental Assessment (EA) Certificate (#M19-01) for the Project states the Project must not result in exceedances of British Columbia (BC) water quality guidelines (WQGs) or approved SBEBs in Davidson Creek and Creek 661 over the course of the Project life. Baseline surface water quality monitoring in the Project area identified concentrations of D-Al that routinely exceed BC short-term and long-term BC WQGs in both creeks, warranting the development of an SBEB.

The objective of this document is to present the updated D-Al SBEBs proposed by BW Gold for Davidson Creek and supporting information as a result of the Application Technical Review process. The originally-proposed D-Al SBEBs were presented in the submission summary (Lorax 2022a) submitted to the British Columbia Ministry of Environment and Climate Change Strategy (BC ENV) as part of BW Gold's Joint Application for *Mines Act*/*Environmental Management Act* permits (the Application). In that submission, D-Al SBEBs were proposed for Davidson Creek and for Creek 661 (Lorax 2022a). A freshet SBEB and a late summer/fall SBEB are proposed for the entirety of Davidson Creek downstream of the Project based on consolidated baseline data for WQ28, WQ27, WQ26, and WQ7 (baseline period April 2011 to September 2020; Lorax 2022a).

As an outcome of the Application Technical Review process, modifications to the originally-proposed SBEBs for Davidson Creek were identified. These modifications included the incorporation of ENV technical guidance on SBEB derivation, applicability and an updated baseline dataset, with consideration of the Project's EA Certificate requirements. The modifications have been incorporated into the proposed SBEBs for Davidson Creek summarized in the present document.

As a secondary outcome of the Technical Review process, BW Gold is no longer applying for SBEBs in Creek 661 at this time. This outcome is partly due to limited baseline water quality data within Creek 661 tributaries that may become direct receivers of Project discharges in the future (ITT Round 4 Comment ID #34). Further, Project plan changes have occurred during the Review process, including:

1) The withdrawal of the Project's application to discharge surface effluent from the Camp Site Sediment Control Pond (SCP) (ERM 2022), and
2) An update to the Project Application to discharge Plant Site SCP via Rapid Infiltration Basins (RIBs) rather than via a surface discharge (KP 2022).

As a result of the above changes, no Project surface discharge is currently proposed in Creek 661. Based on a discussion between ENV, BW Gold, and Lorax on Nov. 3, 2022, it is our understanding that SBEBs are intended guide management decisions and mitigative actions at a specific location and to support the impact assessment for a specific surface effluent discharge. Because a surface discharge is not currently proposed to occur in Creek 661, the SBEB framework is not currently applicable to Creek 661. As such, it was agreed upon by ENV and BW Gold that an application for Creek 661 SBEBs should occur in a future regulatory submission (*e.g.,* as part of a future application for Project discharge to Creek 661). Water quality monitoring in Creek 661 should continue as the Project develops in order to support these future applications.

Based on the above considerations, the present document provides updated information to support BW Gold's proposed for D-Al SBEBs for Davidson Creek. Supporting information for Creek 661 is also presented herein that could be used to inform a future application, but BW Gold is not applying for a Creek 661 SBEB at this time.

This document is organized as follows:

- Sections 1.2 to 1.4 provide an overview of the Project, the approach used to derive proposed SBEBs, and supporting documentation.
- Section 2 of this document summarizes the problem formulation and conceptual model summary for the Project.
- Section 3 presents general background information on the environmental fate of D-Al in aquatic environments, followed by catchment-specific information for Davidson Creek. Information for Creek 661 is also provided for reference.
- Section 4 describes the approach used to calculate D-Al SBEBs for Davidson Creek using the background concentration procedure.
- Section 5 evaluates the applicability of the proposed SBEB, including identified uncertainties.
- Section 6 describes proposed monitoring programs and adaptive management plans for receiving aquatic environments.

The approved ENV (2016) checklist for the SBEB submission summary requirements is provided in Appendix A.

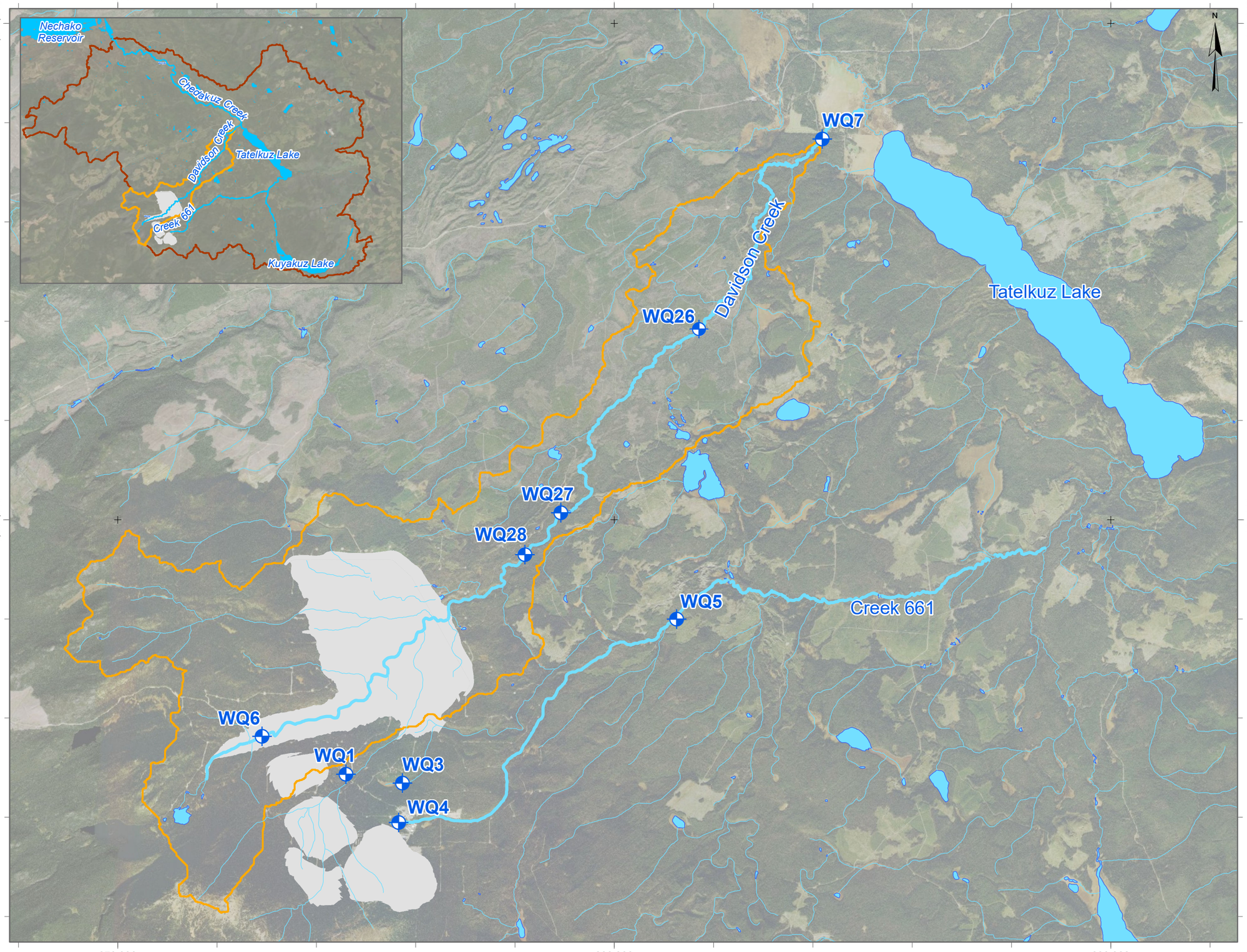
1.2 Project Description

The Project is a proposed open pit gold mine located on the Nechako Plateau in central BC, approximately 110 km southwest of Vanderhoof and 160 km southwest of the city of Prince George. The mine footprint will mainly occur within two catchments: the headwaters of the Davidson Creek and, to lesser extent, Creek 661 (Figure 1-1).

Creek 661 flows from the north-east side of Mount Davidson into Chedakuz Creek, which flows into Tatelkuz Lake (Figure 1-1). Davidson Creek originates in the summit area of Mount Davidson and reports to Chedakuz Creek downstream of Tatelkuz Lake and upstream of the Turtle Creek confluence (Figure 1-1). From the Davidson Creek confluence, Chedakuz Creek flows north-west and into the Nechako Reservoir, which was created in 1952 through the construction of the Kenney Dam on the Nechako River.

The mine site is located within the traditional territories of Lhoosk'uz Dené Nation (LDN), Ulkatcho First Nation (UFN), Skin Tyee Nation (STN) and Tsilhqot'in Nation (TN). Other components of the Project, including the existing Kluskus and Kluskus-Ootsa FSRs and proposed transmission line, cross the traditional territories of Nadleh Whut'en First Nation (NWFN), Saik'uz First Nation (SFN), and Stellat'en First Nation (StFN; collectively, the Carrier Sekani First Nations) as well as the traditional territories of the Nazko First Nation (NFN), Nee Tahi Buhn Band, Cheslatta Carrier Nation and Yekooche First Nation (EAO 2019). There are 11 populated reserves near the Project. The closest reserve to the mine site is LDN Tatelkus Lake #28, located approximately 15 km to the northeast of the mine site. Current use of land and resources for traditional purposes by Indigenous peoples include fishing, hunting, trapping, gathering, and the use of habitations, trails, and cultural and spiritual sites (ERM 2020).

When the Project is operating, the primary Project-related discharge to the receiving environment will be from the Freshwater Reservoir (FWR). Project surface discharges, including treated effluent from the water treatment plants, are directed to the FWR for discharge to the receiving environment, which represents 100% of the headwater flow for Davidson Creek. Compared to Davidson Creek, operational mine-related loadings to Creek 661 are minor and are limited to seepage from Plant Site and Camp Site footprints. Project loading to Creek 661 from other Project facilities (*e.g.,* seepage the TSF spillway) occurs beyond the 125-year modelled time period evaluated in the Application's water balance/water quality model.



LEGEND

- SWQ Monitoring Location
- Mine Infrastructure Footprint (Aug-08-2020)
- Davidson Creek Catchment
- Chekadusz Creek Catchment

Coordinate System: *NAD 1983 UTM Zone 10N*
Projection: *Transverse Mercator*
Datum: *North American 1983*
Units: *Meter*

1:75,000

0 2 4 Km

DATE SAVED:	Mar 15, 2021
DRAWN BY:	AL
REVIEWED:	MG
VERSION:	1

CLIENT:

ARTEMIS GOLD INC

LORAX ENVIRONMENTAL

PROJECT:

Blackwater Gold Project

TITLE:

Water quality monitoring stations for Davidson Creek and Creek 661

PROJECT #: A599 | *FIGURE:* 1-1

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1.3 Overview of SBEB Approach

The background concentration approach was used to derive station-specific D-Al SBEBs for WQ28 (updated station ID conventions are provided in parentheses; DC-05), WQ27 (DC-10), WQ26 (DC-15) and WQ7 (DC-20) in Davidson Creek using available baseline water quality data (April 2011 to July 2022). The SBEB values were derived for two distinctive flow periods (freshet/summer (April 1st to July 31st) and fall (August 1st to December 31st) based on annual trends in D-Al concentrations, which generally follow the annual hydrograph for the Project area. Proposed SBEBs for each station were calculated as the 95th percentile baseline concentration of that station for each flow period, plus 20%. Outside of the freshet/summer and fall periods (*i.e.*, January 1 to March 31), the BC WQG is proposed to apply.

Davidson Creek was divided into four spatial ranges (reaches) that could be assumed to have reasonably-similar water quality, in which established SBEBs could be applied in the future if needed (*i.e.*, in Davidson Creek on either side of WQ28, WQ27, WQ26, and WQ7). The goal of this approach was to account for any new stations potentially established along Davidson Creek in the future that may have insufficient baseline data to develop a station-specific SBEB. Further detail on the approach used to derive the proposed SBEBs for Davidson Creek and their intended applicability is presented in Section 4. As described in Section 1.1, D-Al SBEBs are not proposed for Creek 661 stations at this time.

1.4 Supporting Documentation

As discussed above, the present submission summary represents an update from the version originally presented with the Application (Lorax 2022a). It integrates ENV comments on the proposed D-Al SBEB provided during the Application Technical Review process and BW Gold responses, which are captured in the Application Review Tracking Table (ITT) Comments 25, 26, 28, 30, 35, 94, 2176, and 2178-2187, and the below documents:

- "Response to Round 1 Review Comments 27, 84, 85, and 88" (Lorax 2022d).
- "Response to Round 1 Review Comment 34" (Lorax 2022b).
- "Response to Round 2 Review Comment 34" (Lorax 2022c).
- "Response to Round 2 Review Comment 27, and Round 3 Review Comments 34(2), 34(10) and 2177" (Lorax 2022e).

2. Summary of Problem Formulation

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2. Summary of Problem Formulation

A problem formulation and conceptual model exercise was conducted in support of the development of the D-Al SBEBs (Lorax 2021), per ENV guidance (BC ENV 2016). The problem formulation exercise evaluates parameters of potential concern (POPCs), receptors of concern, and exposure pathways applicable to the Project area. These three components were integrated into a conceptual model that identifies operable pathways of POPC exposure through relevant environmental media to receptors. A full description of the conceptual model and problem formulation for the Project is provided in Lorax (2021) and briefly described below. The applicable conceptual model diagram is provided in Figure 2-1.

Dissolved Al concentrations at monitoring stations located in Davidson Creek and Creek 661 routinely show values above the BC WQGs for several months of the year (Appendix B). Dissolved Al was the only identified POPC for the Project and for which a site-specific benchmark (*i.e.*, SBEB) is proposed based on elevated background concentrations. The focus of the problem formulation is therefore applicable to background sources of D-Al that may be transported into the aquatic and/or terrestrial environments (*e.g.,* weathering and erosion, runoff and atmospheric deposition [*e.g.*, dust]).

Identified receptors of concern include:

- Aquatic Receptors: Aquatic primary producers (including semi-aquatic plants), invertebrates, fish and amphibians.
- Wildlife Receptors: Soil biota, birds and mammals.
- Human Receptors: Temporal site users (Indigenous and non-Indigenous) including adults and children of all ages.

Exposure pathways include direct contact with surface water (aquatic receptors) and drinking intake (human and wildlife receptors). Soils, atmospheric deposition and sediments are considered minor/inoperable pathways with a lower likelihood of contributing to adverse effects caused by D-Al exposure.

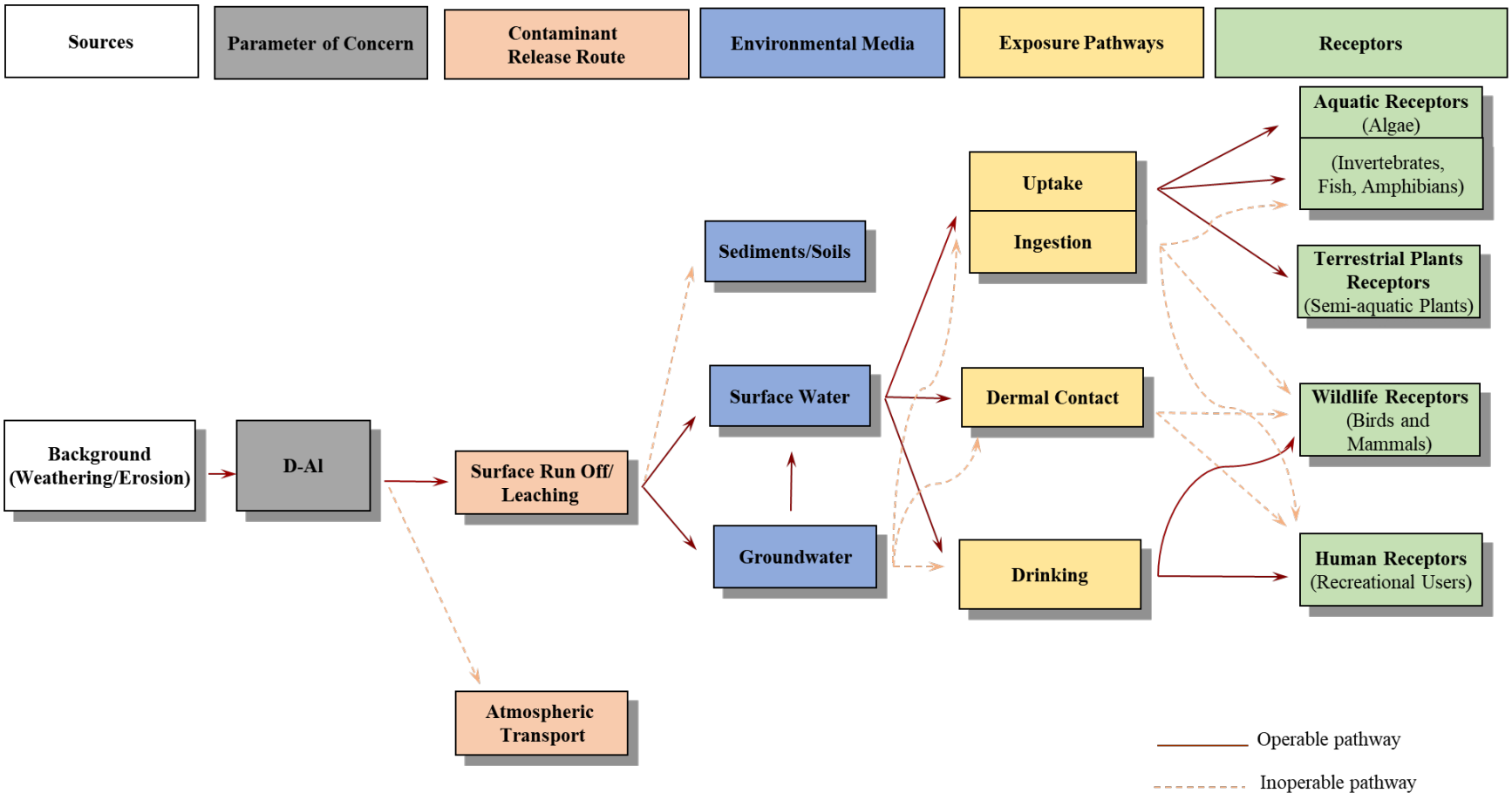

Figure 2-1: Conceptual Model Blackwater Gold Project for Dissolved Aluminum.

3. Receiving Aquatic Systems

3. Receiving Aquatic Systems

Based on the results of the problem formulation described in the previous section, the operable pathway applicable to D-Al relates mainly to surface water, including drinking water. As such, the section below discusses baseline D-Al concentrations (April 2011 up to July 2022) and characteristic aquatic biota present in Davidson Creek (Section 3.4). Information on baseline conditions for Creek 661are provided in Section 3.5 for information purposes.

3.1 Aluminum in Aquatic Environments

Aluminum is highly abundant in the Earth's crust, resulting in high soil enrichment in the form of aluminosilicate minerals and hydroxides that subsequently enter aquatic systems through weathering processes. In circumneutral aquatic environments, the solubility of D-Al is largely controlled by the formation of colloidal $Al(OH)_3$. Dissolved Al readily forms complexes with elements such as chloride, fluoride, sulphate, nitrate, phosphate, and negatively charged compounds such as organic acids and clays, thus decreasing its toxicity (ATSDR 2008). Dissolved organic carbon is also known to be an important toxicity modifying factor due to its influence on the complexation of Al. This allows waters with high organic content to be suitable for fish even at high Al concentration and low pH (BC Ministry of Environment and Climate Change Strategy [ENV] 2001).

In low-pH waters (<6), the solubility of Al increases, thus increasing its potential toxicity (Canadian Council of Resource and Environment Ministers [CCREM] 1987). It has also been demonstrated that hardness can act as a modifying factor in moderately alkaline water (Gundersen *et al.* 1994). Aluminum does not biomagnify through the food chain and tissue accumulation greatly depends on the presence of complexation agents (BC ENV 2001). However, accumulation of Al in biota tissues is considered generally low (ATSDR 2008).

3.2 Toxicity to Aquatic Organisms

For the purpose of this plan, a review of Al chronic toxicity to aquatic organisms is summarized here, focusing on toxicological literature in which studies were conducted at pH ≥ 6.5 as the receiving environment for the Project is characterized by circumneutral pH. Differentiation of T-Al or D-Al exposures in reported studies is included when available. With respect to fish, an effect concentration for a 44 day growth of 520 µg/L for rainbow trout fingerlings exposed to D-Al was reported by Freeman and Everhart (1971). Aluminum appears to have no effect on egg fertilization, but mortality was observed during egg maturation at T-Al concentrations of 5,200 µg/L (Freeman and Everhart 1971). For invertebrates, mortality occurred in second and third instar chironomid *Tanytarsus*

dissimilis larvae after 55 days of exposure to an Al concentration of 800 µg/L (pH 6.8; [Lamb and Bailey 1981]). However, other authors reported no effect in several chironomids species exposed to Al concentrations ranging from 200 to 20,000 µg/L (at several pH values ranging from 4 to 6.5) (CCREM 1987). *Daphnia magna* showed mortality and reproductive impairment after three weeks of exposure at Al concentrations of 1,400 µg/L and 320 µg/L, respectively (pH 7.7) (CCREM 1987). Schofield and Trojnar (1980, as referenced in CCREM 1987) reported reproductive impairment in *D. magna* at Al concentrations of 680 µg/L (pH 6.5-7.5).

Toxicity of Al to aquatic plants and algae is highly variable due to the development of tolerance in exposed algae and plants (CCREM 1987). A reduction in root growth was reported for *Myriophyllum spicatum L*. at an Al concentration of 2,500 µg/L and a circumneutral pH (Stanley 1974). For *Selenastrum capricornutum* biomass reduction was reported at T-Al concentrations of 570 and 460 µg Al/L and pH of 7.6 and 8.2, respectively. The algae also showed reduced growth after 14 days of exposure to 990 µg Al/L at pH 7. A 96-hour growth inhibition was reported for *Scenedesmus quadricauda* exposed to 1,500 µg Al/L (pH 7.5-7.8) (CCREM 1987). Decreased photosynthetic activity in algae at Al concentrations of 380 µg/L were reversed by addition of organic ligands (CCREM 1987). Growth inhibition was reported in *Chlorella vulgaris* and *Cyclotella meneghiniana* after exposure to Al concentrations of 4,000 µg/L (at pH 7) and 810 µg/L (at pH 8), respectively (BC ENV 2001).

3.3 Regulatory Framework

The BC WQG for Al applies to the dissolved metal fraction (Ministry of Environment and Climate Change Strategy Province of British Columbia [BC ENV] 2001). The long-term and short-term guidelines for D-Al are 50 µg/L and 100 µg/L, respectively, for water bodies with pH values greater than or equal to 6.5 (BC ENV 2001). At pH values less than 6.5, both guidelines are lower and pH dependent. Additional WQGs for Al applicable to the Project include drinking/aesthetics (9.5 mg D-Al/L; BC ENV 2020), and wildlife/livestock/irrigation (5 mg T-Al/L) (BC ENV 2001).

3.4 Davidson Creek Baseline Conditions

A detailed description of site conditions in Davidson Creek is provided in Lorax (2021) and briefly described below. Davidson Creek flows northeast and joins Chedakuz Creek downstream of Tatelkuz Lake, which flows generally northwest, and discharges into the Nechako Reservoir. Davidson Creek is a third order stream with an approximate drainage area of 77 km^2. Aquatic life is identified as the primary water use for Davidson Creek. Other water uses include wildlife, drinking water (limited to recreational/traditional use

[*e.g.,* occasional fishing, hunting, trapping, or gathering]), and agricultural use, the latter of which is limited to the lowest reach of Davidson Creek near its confluence with Chedakuz Creek. Forestry has also occurred throughout the catchment.

Fish habitat quality is ranked as high for most of Davidson Creek (AMEC 2013a). Twelve fish species have been observed within the Project area with rainbow trout (*Oncorhynchus mykiss*) and kokanee salmon (*O. nerka*) as the most relevant species for Davidson Creek (AMEC 2015). No endangered, threatened, or vulnerable fish species were identified. Periphyton and benthic invertebrate communities in Davidson Creek are typical of the region and corresponding reference locations. Periphyton communities are dominated by diatoms and cyanobacteria with the presence of some green algae (chlorophytes) in mid reaches of Davidson Creek (AMEC 2015). Benthic invertebrate community metrics similarly reflect a range of interannual and spatial variation, but generally contain typical, representative taxa (*e.g.*, ephemeroptera, plecoptera, trichoptera [EPT taxa], chironomidae) (AMEC 2015).

Davidson Creek sediments are dominated by large particle sizes composed mainly of gravel and sand with small percentage of silt and clay. Metal concentrations in samples collected within the Project area show similar metal concentrations to those observed in the region. Exceedances of applicable sediment guidelines for arsenic, cadmium, manganese, nickel and zinc within the Davidson Creek watershed represent natural signatures (AMEC 2013b).

With respect to water quantity and quality, surface flows in the study area are influenced by the regional climate characterized by brief, warm summers and long cold winters. Peak stream flows occur in May, with low flows observed in February and March (annual hydrograph at hydrometric station H4B (water quality station WQ26) shown in Figure 3-1 for reference). Three distinct flow periods were identified in Project area creeks, as illustrated in Figure 3-1, that were generally consistent with seasonal baseline concentration trends and formed the general basis for the three seasonal periods proposed as part of the SBEB approach. Baseline concentration trends (up to July 2022) for D-Al ultimately determined the specific months proposed within each seasonal period.

Several baseline surface water quality monitoring stations have been established in Davidson Creek, including WQ1, WQ6, and WQ10 in the upper reaches, and WQ28, WQ27, WQ26, and WQ7 in the mid- and lower-reaches. Water quality is generally characterized by circum-neutral to slightly alkaline pH, and very soft to moderately soft water hardness. Concentrations of major ions and trace elements are typically low, although dissolved organic carbon (DOC) and total metal concentrations respond to the annual hydrograph showing increases in conjunction with higher flows and total suspended solids (TSS) during freshet (ERM 2021).

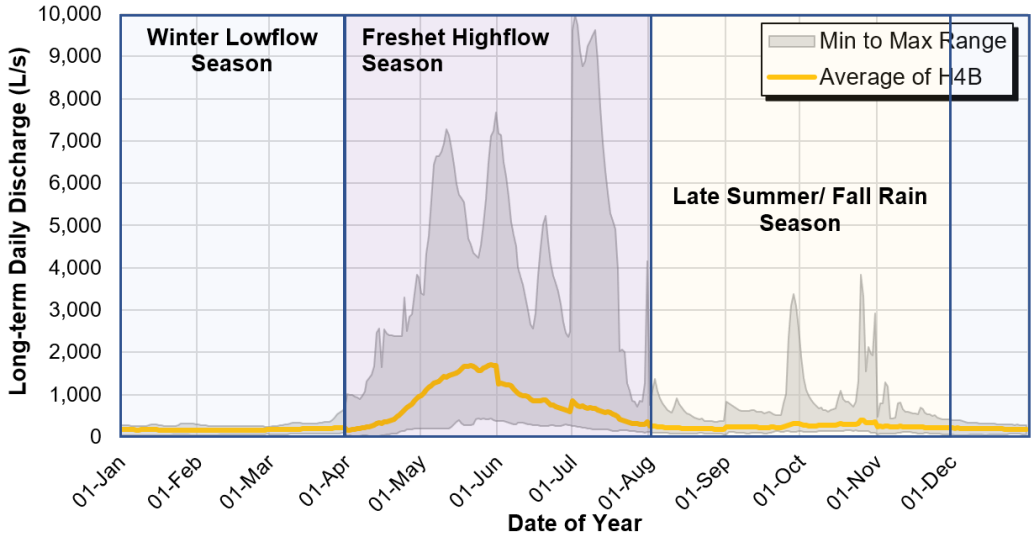

Figure 3-1: Davidson Creek mean, minimum, and maximum annual flows for water quality station WQ26 (hydrology station H4B) during winter low flow (blue shading), freshet high flow (purple), and late summer flow (yellow shading). Source: Knight Piésold (2021)

Dissolved Al concentrations are notably elevated for several months of the year. Mean D-Al concentrations for all Davidson Creek stations downstream of the proposed Project footprint (WQ28, WQ27, WQ26 and WQ7) exceed the long-term BC WQG, and corresponding 95th percentiles for all stations exceed the short-term BC WQG (Table 3-1; Appendix B). On average, D-Al concentrations tend to be higher at stations located in the upper sections of the catchment (*e.g.*, WQ28 and WQ27) compared to those located in lower sections (WQ26 and WQ7). Other stations established upgradient of WQ28 on Davidson Creek (*e.g.*, WQ1, WQ6, and WQ10) will be engulfed by Project components and are therefore omitted from this analysis.

Table 3-1:
Davidson Creek descriptive statistics for dissolved aluminum concentration and pH at stations WQ28, WQ27, WQ26 and WQ7 (baseline data up to July 2022).

Station	Number of Samples	D-Al (mg/L)				pH (pH units)		D-Al BC WQG (mg/L)	
		Min	Mean	95th P	Max	Min	Max	Long-term	Short-term
WQ28	78	0.011	**0.080**	**0.24**	**0.28**	6.9	8.0	0.05	0.10
WQ27	80	0.002	**0.071**	**0.20**	**0.29**	6.9	8.1	0.05	0.10
WQ26	88	0.005	**0.061**	**0.19**	**0.24**	7.0	8.1	0.05	0.10
WQ7	128	<0.002	**0.055**	**0.17**	**0.33**	6.9	8.1	0.05	0.10
All stations	374	<0.002	**0.065**	**0.19**	**0.33**	6.9	8.1	0.05	0.10

Notes:
BC WQG = British Columbia water quality guidelines for aquatic life. Guideline is pH-dependent below pH of 6.5.
D-Al = Dissolved aluminum
95th P = 95th percentile statistic
Bold values exceed the long-term BC WQG; shaded values exceed the short-term BC WQG.

Statistics for pH at the same stations are shown for context in Table 3-1 owing to the pH dependence of the BC WQG for D-Al for ambient pH values below 6.5. Recorded pH values remained above 6.5 at all stations on Davidson Creek within the monitoring record.

The seasonal signature for D-Al concentrations at all stations resembles the annual hydrograph, with annual maxima and minima occurring during spring (or early summer) and winter low-flow periods, respectively (Figure 3-2; Appendix B). Such observations relate to the fact the "dissolved" Al inventory is predicted to be present as colloidal $Al(OH)_3$, and hence concentrations of filterable Al will be predicted to increase in response to increased flow and associated turbidity. Secondary concentration peaks occur during late summer through to early winter, attributed to fall precipitation events.

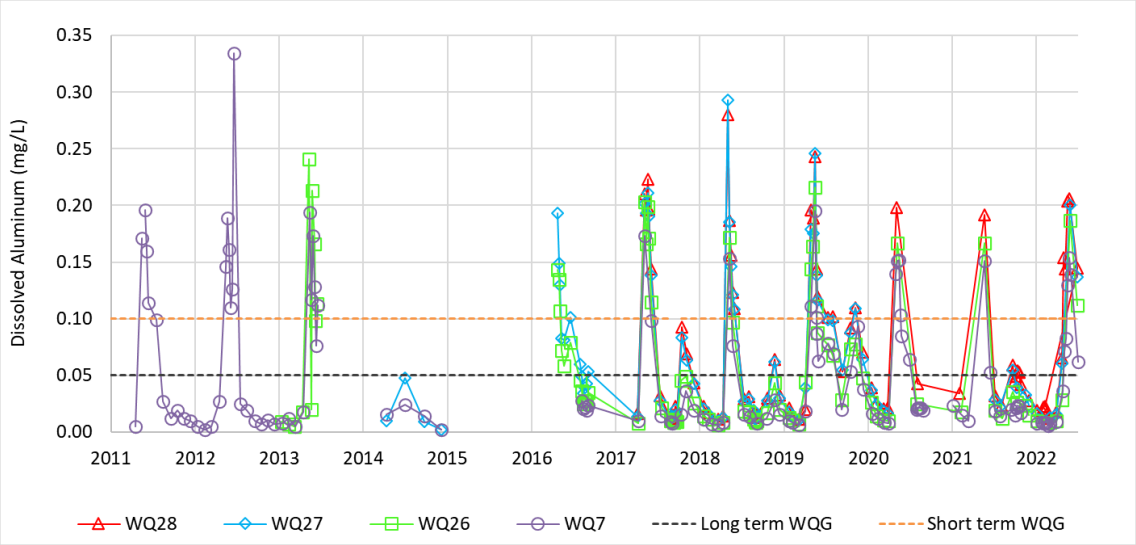

Figure 3-2: Davidson Creek dissolved aluminum concentrations at stations WQ28, WQ27, WQ26, and WQ7 from 2011 to July 2022. British Columbia long-term and short-term water quality guidelines (WQG) for aquatic life shown as dashed black and orange lines, respectively.

3.5 Creek 661 Baseline Conditions

A detailed description of site conditions in Creek 661 is provided in Lorax (2021) and briefly described below. BW Gold is not applying for an SBEB in Creek 661 at this time, and the below information is provided for reference.

Creek 661 is a third-order tributary that flows in a north-easterly direction toward Tatelkuz Lake. The creek discharges to Chedakuz Creek upstream of Tatelkuz Lake. Creek 661 is a third order stream with an approximate drainage area of 67 km^2. Aquatic life is identified as the primary water use for Creek 661. Other water uses in the creek include wildlife and drinking water (in the case of occasional fishing, hunting, trapping, or gathering). Forestry has also occurred throughout the catchment.

Stream morphology and habitat in Creek 661 are reasonably similar to conditions in Davidson Creek with good quality fish habitat, including spawning gravels for rainbow trout and kokanee. However, baseline monitoring surveys recorded limited overwintering habitat (AMEC 2013a). Similar to Davidson Creek, the most abundant fish species present in the creek as recorded in baseline surveys were rainbow trout and kokanee. Periphyton and benthic invertebrate communities in Creek 661 are typical of the region and corresponding reference locations with similarities with Davidson Creek. Creek 661 sediments were dominated by large particle sizes composed mainly of gravel and sand with small percentage of silt and clay. Exceedances of applicable sediment guidelines are considered a natural occurrence and were observed for arsenic, cadmium, iron, manganese, mercury silver and zinc (AMEC 2013b).

Baseline surface water quality monitoring stations established in Creek 661 include WQ4 and WQ3 in the upper reaches, and WQ5 mid-reach. WQ3 is located on Creek 505659, a northern tributary of Creek 661. WQ4 is located in the upper reaches of Creek 146920, a tributary that discharges to Creek 505659. Downstream of the Creek 146920 confluence with Creek 505659, Creek 505659 discharges to the Creek 661 mainstem. Water quality monitoring station WQ5 is located on Creek 661 immediately downstream of the confluence of the Creek 661 mainstem and Creek 505629, which are monitored via hydrometric stations H1 and H11, respectively. The additive flows at H1 and H11 provide a reasonable estimate of total flow at WQ5. For the purpose of this analysis, it is assumed WQ4 will be engulfed by Project components, while WQ3 and WQ5 will represent the receiving environment. Please refer to Lorax (2022d) for a detailed map showing creeks 505659 and 146920 relative to other Creek 661 tributaries, and a discussion of the estimated flow rates in each.

Similar to Davidson Creek, surface water quality in Creek 661 is characterized by circum-neutral to slightly alkaline pH, and soft water (ERM 2021; Appendix B). Concentrations of major ions and most trace elements are low, while concentrations of TSS, DOC and certain total metals increase in conjunction with spring freshet.

Dissolved aluminum concentrations are elevated in several months of the year and the seasonal signatures at WQ3 and WQ5 closely mirror the annual hydrograph. The annual maxima and minima occurring during spring (or early summer) and winter low-flow periods, respectively (Figure 3-3; Appendix B). The mean D-Al concentrations for stations WQ3 and WQ5 in Creek 661 exceed the long-term BC WQG, and corresponding 95th percentiles for both stations exceed the short-term BC WQG (Table 3-2; Appendix B), while the pH for both stations has remained above 6.5 over the monitoring period (Table 3-2).

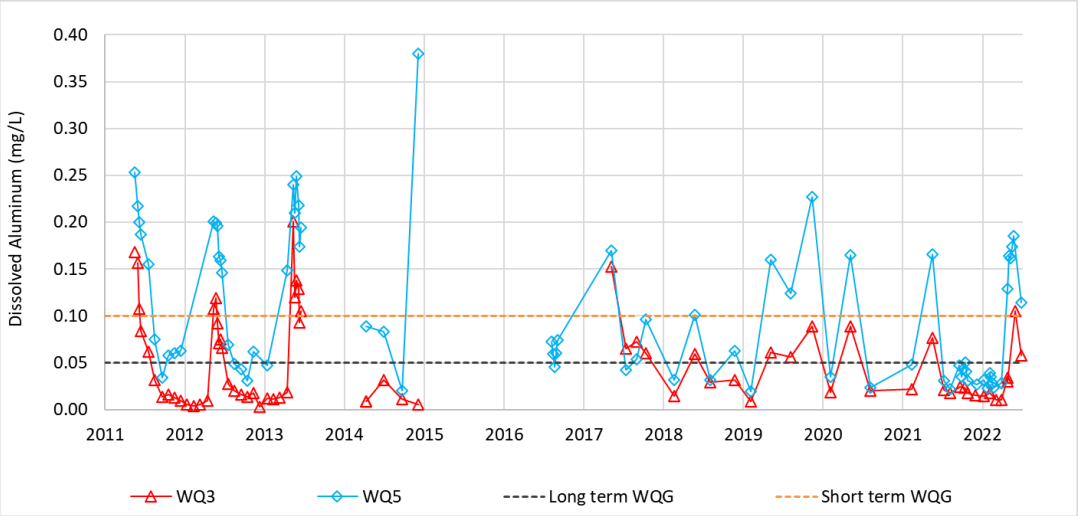

Figure 3-3: Creek 661 baseline dissolved aluminum concentrations at stations WQ3 and WQ5 from 2011 to July 2022. British Columbia long-term and short-term water quality guidelines (WQG) for aquatic life shown as dashed black and orange lines, respectively.

Table 3-2:
Creek 661 Descriptive statistics for dissolved aluminum concentration and pH for stations WQ3 and WQ5 (baseline data up to July 2022).

Station	Number of Samples	D-Al (mg/L)				pH (pH units)		D-Al BC WQG (mg/L)	
		Min	Mean	95th P	Max	Min	Max	Long-term	Short-term
WQ3	73	0.003	**0.055**	**0.14**	**0.20**	6.9	8.0	0.05	0.1
WQ5	81	0.019	**0.10**	**0.25**	**0.38**	6.8	7.9	0.05	0.1
All Creek 661	154	0.003	**0.08**	**0.21**	**0.38**	6.8	8.0	0.05	0.1

Notes:
BC WQG = British Columbia water quality guidelines for aquatic life. Guideline is pH-dependent below pH of 6.5.
D-Al = Dissolved aluminum
95^{th} P = 95^{th} percentile statistic
Bold values exceed the long-term BC WQG; shaded values exceed the short-term BC WQG

Long-term temporal trends in D-Al concentrations were not discerned for Creek 661 stations after statistical exploration of the data set (ITT Round 2 Comment ID #35; Round 2 Comment IDs #2182 and 2183). For example, statistical explorations of the WQ3 data using a one-way Analysis of Variance (ANOVA) showed no significant differences in D-Al concentrations among years ($p = 0.71$). In addition, analysis of trends for WQ3 using Spearman's non-parametric correlation analysis indicated that there are no significant relationships between temporal and spatial variables ($p > 0.050$) (ITT Round 2 Comment ID #35; Round 3 Comment ID #2183).

In regards to WQ5, trend analysis of D-Al concentrations resulted in low correlation coefficients with marginal *p*-values (r = -0.3; p = 0.04). Statistical analysis for D-Al data collected in WQ5 was attempted by the use of two-way ANOVA; however, due to the significance of the interaction term, the two factors of variability (years, months) were further evaluated independently using one-way ANOVAs. Results from statistical analysis showed that D-Al concentrations in 2013 significantly differ from 2021; however, the *p*-value was marginal (p = 0.044). In addition, the months of May and June appeared to significantly differ from September (p = 0.001) but no clear trend was discerned. This strongly suggests that most of the variability observed in stations WQ3 and WQ5 is a result of the system's natural variability rather than a result of temporal and/or spatial trends in D-Al concentrations (ITT Round 3 Comment ID #2182).

4. SBEB Development

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4. SBEB Development

An initial meeting with representatives of the BC ENV was held on April 21, 2021 to discuss the documentation requirements for a D-Al SBEB applicable to the Project (Appendix C). The SBEB derivation checklists (namely Appendices A and B of BC ENV (2016)) completed by BW Gold Ltd. were sent to BC ENV in advance of submitting the SBEB development plan and submission of technical documents for review. From these interactions, BC ENV advised/confirmed to BW Gold Ltd. the following:

- The background concentration procedure is appropriate for the development of the D-Al SBEB in receiving aquatic environments;
- The best available technology section is not required to be included in the SBEB Development Report;
- Site characterization should be described to demonstrate how other factors could affect D-Al toxicity; and
- Effluent characterization is not critical since the SBEB derivation is based on the background concentration approach.

Based on the outcome of that meeting, updated SBEB derivation checklists were provided and approved by ENV. Subsequent communication between BW Gold Ltd. and ENV confirmed both the SBEB Development Plan and Submission Summary documents applicable to the SBEB derivation for the Project are to be submitted along with the joint application. Further BC ENV input during the Application Review period was also incorporated into the SBEBs derivation. A description of the background concentration approach and derivation of D-Al SBEBs applicable to Davidson Creek is provided in the following sections.

4.1 Approach

Dissolved Al concentrations at monitoring stations along Davidson Creek routinely show values above the BC WQGs for several months of the year. Therefore, the derivation of D-Al SBEBs for this creek is warranted. The most appropriate approach for the development of a D-Al SBEB applicable to Davidson Creek is the background concentration procedure. In this approach, the upper limits of background concentration are determined using the 95th percentile of existing data, per ENV (2013a) and Lorax (2021). The calculation may also account for seasonality in parameter concentration. Given the BC WQG for Al applies to the dissolved (rather than total) metal fraction, the

SBEBs proposed in the present report for Davidson Creek are derived using baseline D-Al concentrations.

Appendix 3 of BC ENV (2013a) indicates that as long as there is no change from background concentrations (defined as the 95th percentile of appropriate data), it can be reasonably inferred that no harmful effects to receptors should take place. "No change" is defined as a difference of not greater than 20% going from upstream to downstream from a discharge or series of discharges (BC ENV 2013a). In the case of Davidson Creek, since the source of D-Al is from background rather than Project-related discharges, the derived SBEB is equal to the 95th percentile D-Al concentration plus 20%.

The SBEB values were calculated for each station using site-specific baseline data (up to July 2022) for the periods of freshet/summer (April 1st to July 31st) and fall (August 1st to December 31st) to account for seasonal concentration patterns (Section 3.2) and WQG exceedances reflected in the baseline dataset (Appendix B; Lorax 2022e). Outside of these dates (*i.e.*, January 1 to March 31), baseline concentrations fall below BC WQGs, and therefore no SBEB is proposed (*i.e.*, BC WQGs are proposed to apply). Corresponding station-specific calculations are shown in Table 4-1 and Figure 4-1

Table 4-1:
95th Percentile + 20% concentrations of dissolved aluminum (mg/L) for Davidson Creek stations using baseline dataset April 2011 to July 2022

Data period	Calculated using baseline data from April 2011 to July 2022			
	WQ28	WQ27	WQ26	WQ7
April 1 – July 31	0.28	0.26	0.25	0.23
August 1 – December 31	0.13	0.11	0.090	0.079

The EA Certificate requires that WQGs or approved SBEBs are met in the Davidson Creek receiving environment. This requirement poses a potential challenge under a station-specific SBEB approach in that any new station established on Davidson Creek in the future may have insufficient baseline data from which to develop a station-specific SBEB. To address this, BW Gold adopted ENV's suggestion to propose to apply SBEBs to spatial ranges (reached) in Davidson Creek that could be assumed to have reasonably-similar water quality. As described in Lorax (2022e), reaches and their respective SBEBs are proposed as follows:

- SBEB Reach A (WQ28 SBEB): Below the Freshwater Reservoir discharge to approximately halfway between WQ28 and WQ27;
- SBEB Reach B (WQ27 SBEB): Halfway between WQ28 and WQ27, to approximately halfway between WQ27 and WQ26;

- SBEB Reach C (WQ26 SBEB): Approximately halfway between WQ27 and WQ26 to either:

  a. Immediately upstream of the Tributary 226858 catchment discharge to Davidson Creek, or

  b. Immediately upstream of the Tributary 114028 catchment discharge to Davidson Creek.

- SBEB Reach D (WQ7 SBEB): Below the WQ26 SBEB area to the Davidson Creek confluence with Chedakuz Creek.

The proposed reaches are illustrated in Figure 4-2 and coordinates for the upstream and downstream ends of each reach are presented in Table 4-2. In the case described above for the WQ26 SBEB (Reach C), if a new Davidson Creeks station was needed between the confluences of tributaries 226858 and 114028 a series of same-day samples would be proposed to occur at the new station, WQ26, WQ7, and tributaries 226858 and 114028 (Figure 4-2). These samples would be used to evaluate the relative water quality of the two tributaries compared to the new station, WQ26 and WQ7 to determine the most appropriate location for the SBEB range break. Tributaries 226858 and 114028 were identified as potential transition points for the WQ26 SBEB reach because of their substantive catchment sizes (7.8% and 8.3%, respectively) within the overall Davidson Creek catchment.

In general, the proposed SBEB values for Davidson Creek reflect the upper limit of seasonal baseline D-Al concentrations for each of the stations (Figure 4-1). The values fall well below relevant drinking water criteria (*e.g.*, Maximum Allowable Concentration of 9.5 mg/L for drinking water sources). It is noted that select datapoints within the WQ28, WQ27 and WQ7 baseline datasets exceed the proposed SBEB during the spring/summer high flow season, reflecting natural variability.

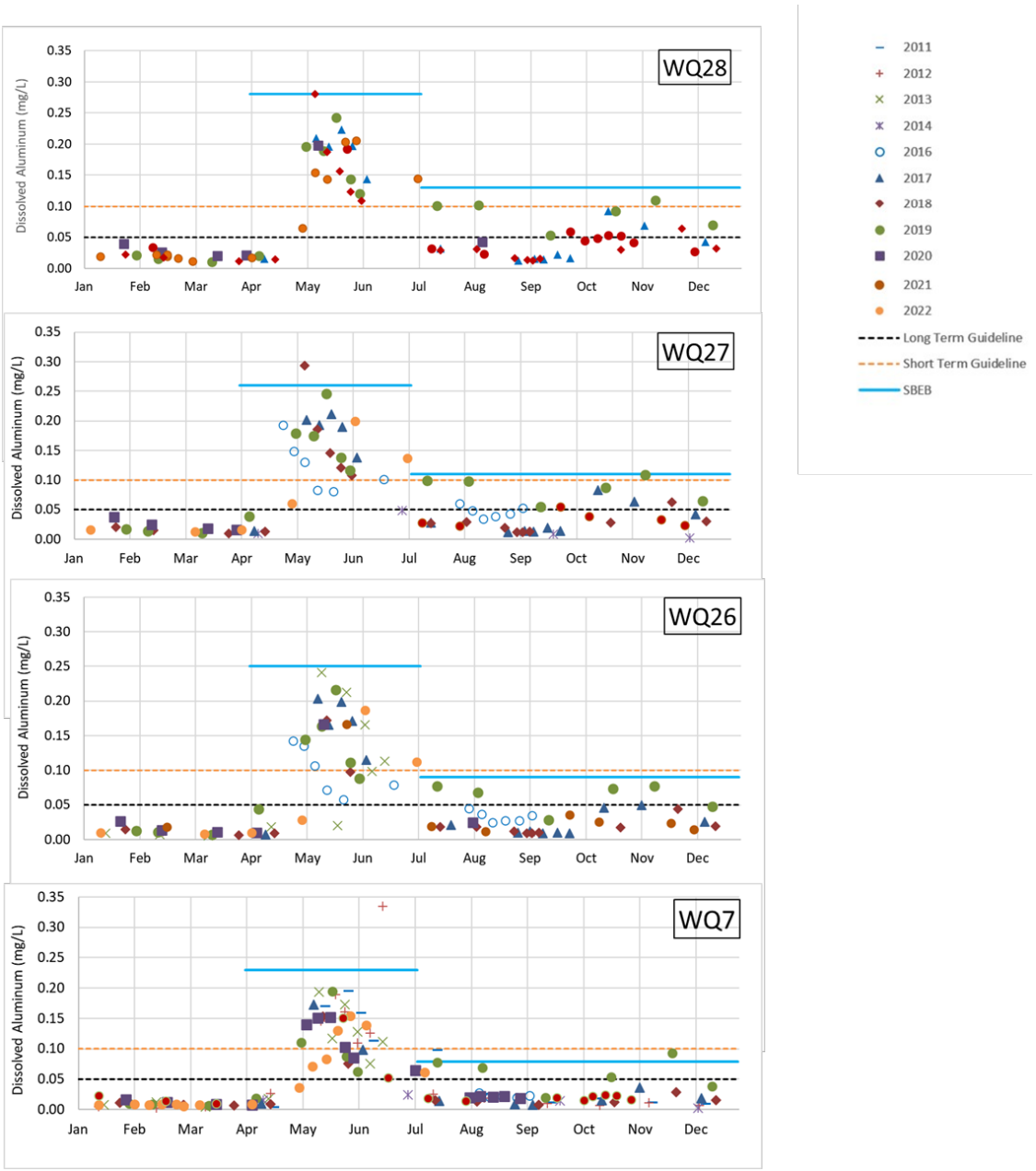

Figure 4-1: Davidson Creek monthly dissolved aluminum concentrations (up to July 2022) for stations WQ28, WQ27, WQ26 and WQ7 compared to British Columbia water quality guidelines for aquatic life (dashed lines) and proposed Science-Based Environmental Benchmark (solid blue line).

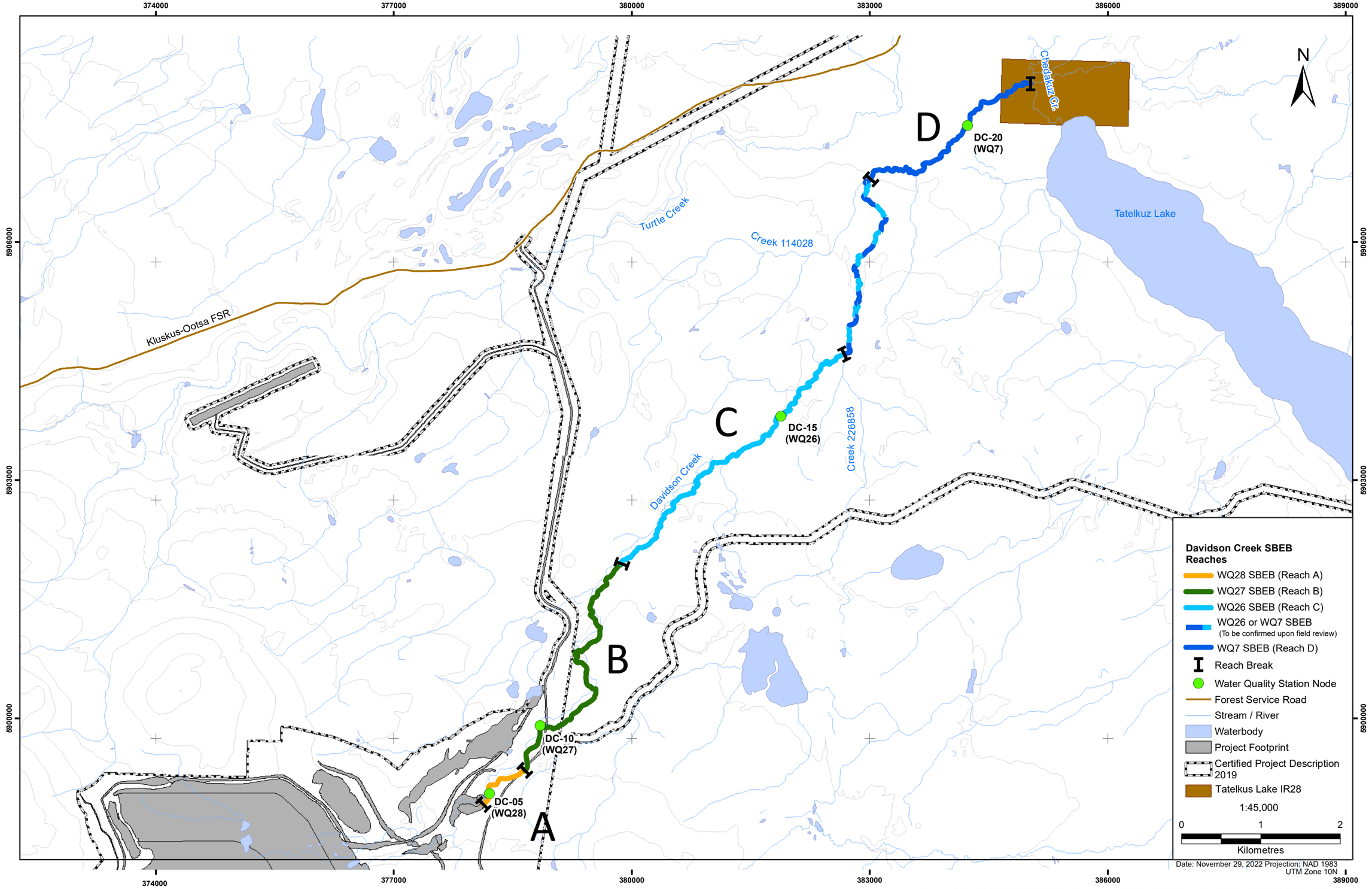

Figure 4-2: PROPOSED REACHES IN DAVIDSON CREEK AT WHICH DERIVED STATION-SPECIFIC SBEBS APPLY

Table 4-2:
Easting and Northing Coordinates for Proposed SBEB Reaches in Davidson Creek

Reach Point and Description	Easting	Northing
FWR (upstream point of WQ28 SBEB reach)	378129	5899165
Break between WQ28 and WQ27 SBEB reaches	378654	5899595
Break between WQ27 and WQ26 SBEB reaches	379873	5902196
Potential break between WQ26 and WQ7 SBEB reaches, immediately upstream of the Tributary 226868	382674	5904839
Potential break between WQ26 and WQ7 SBEB reaches, immediately upstream of the Tributary 114028	383011	5907041
Davidson Creek confluence with Chedakuz Creek (downstream point of WQ7 SBEB reach)	385025	5908246

4.2 Quality Assurance/Quality Control

Data used to calculate the D-Al SBEB were tabulated to facilitate visual examination of the results and identification of extreme or unusual results. Compiled water quality data were checked for unit conversions, formulae and transcription errors between created excel sheets and all original data files.

All surface water quality data collected as part of the baseline program (including for D-Al) were subjected to a field and data quality assurance/quality control (QA/QC) system. The field program included the collection of field blanks, travel blanks, and field duplicates, the results of which were evaluated using data quality objectives presented in the BC Field Sampling Manual (BC ENV 2013b).

Overall, field and travel blanks indicate that field sampling procedures were successful at avoiding sample contamination. Field duplicates did not indicate any systematic issues with sampling or analytical methods. Further details on the baseline surface water quality QA/QC program are presented in Appendix 2-H (2011 to 2020 Baseline Water Quality Report; ERM, 2021) of the Application.

5. Summary of SBEB Applicability

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5. Summary of SBEB Applicability

Based on the results of the problem formulation described in Section 2, the operable pathway applicable to D-Al relates to surface water. As such, the section below discusses the applicability of the proposed SBEB values for Davidson Creek.

5.1 Comparison of Proposed SBEB to Predicted Water Quality

In support of BW Gold Ltd.'s Application, a predictive water balance and water quality model was developed that included predictions for D-Al in the Project receiving environment. Predicted water quality predictions for D-Al are shown in Figure 5-1 to Figure 5-4.

The water quality model incorporates a life of mine (LOM) water balance model (WBM), describing anticipated conditions at the Project over a 125-year period, developed by Knight Piésold (Lorax 2022f). Coupled to this WBM and encoded within a GoldSim modelling framework, Lorax developed a site-wide water quality model (WQM) for the Project. Outputs from the WQM provide quantitative estimates of changes to water quality conditions resulting from proposed activities at the property.

Consistent with the LOM WBM (Lorax 2022f), the assumed timing and duration of the Project phases in the site-wide WQM are as follows:

- Pre-Construction (Year -17 to Year -3);
- Construction (Year -2 and -1);
- Operations (Year 1 to Year 23);
- Closure (Year 24 and extending until pit lake filling is complete); and
- Post-Closure (the period extending from end of Closure into perpetuity; the WQM confines this period to 73 years after Closure).

Water quality predictions were generated for several mine site and receiving environment modelling nodes within the Project area. The 95th percentile concentrations of the Base Case Variable Climate Case (v13e) water balance/water quality model were evaluated as a conservative "best estimate" of expected conditions. Receiving environment node locations were selected to be consistent with baseline monitoring locations where possible, including WQ28, WQ27, WQ26, and WQ7 along Davidson Creek, WQ5 in Creek 661, and WQ8, WQ9, and WQ13 in Chedakuz Creek. Additional nodes were added to the base of Creek 661 ("WQCk661" node), and at two far-field locates in Chedakuz Creek ("ChedakuzMidway" and "ChedakuzOutlet") to ensure adequate spatial coverage of model

predictions. Further detail on the WQM architecture and inputs is presented in the Application Section 5.4 and Appendix 5-D.

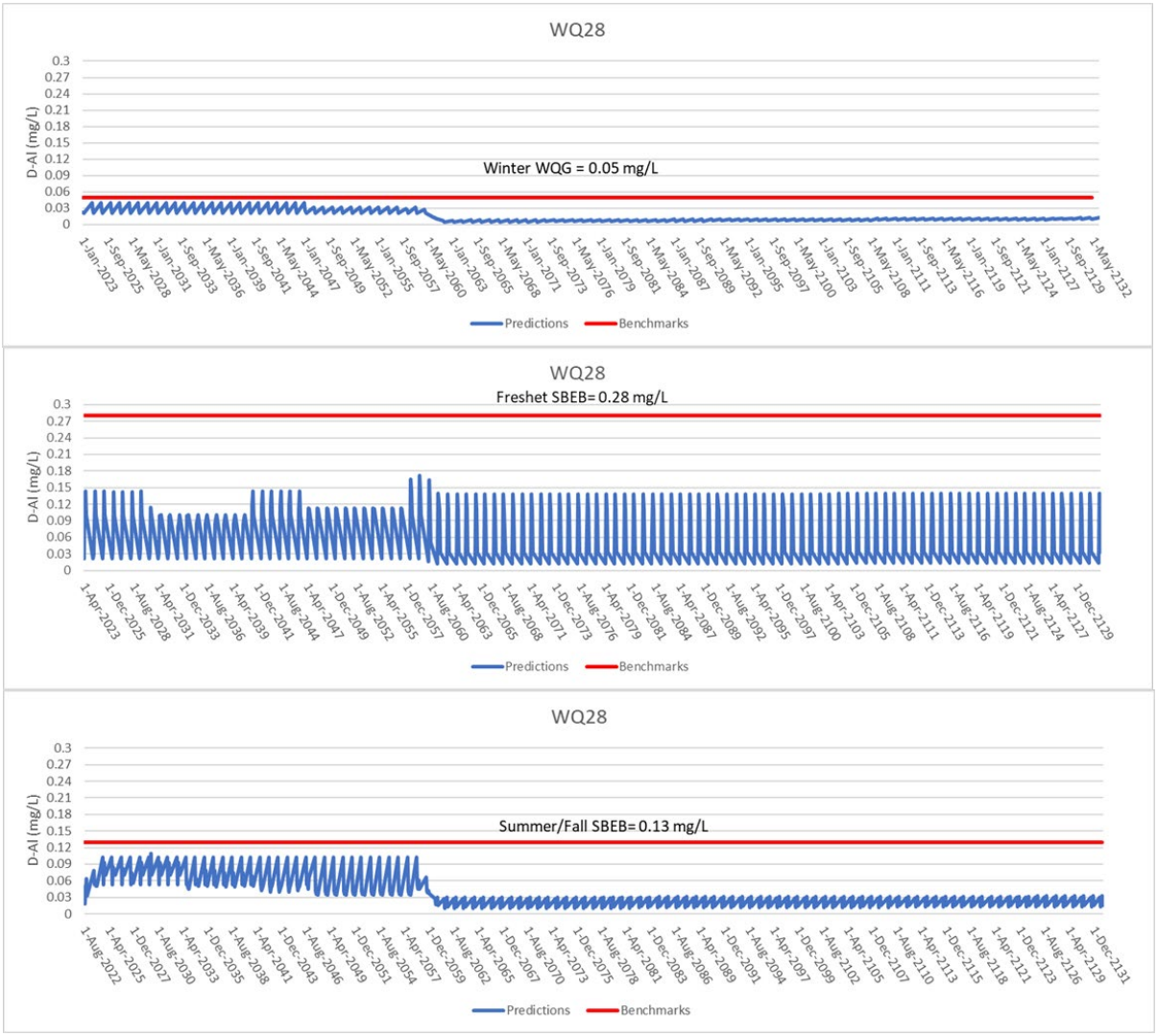

Figure 5-1: Water quality predictions for dissolved aluminum (D-Al) in station WQ28 located in Davidson Creek for all mine phases (construction, operations, closure and post-closure) for the Blackwater Gold Project compared against proposed Science-Based Environmental Benchmark (SBEB; solid red line). Monthly predictions are grouped by flow periods winter, freshet and summer/fall.

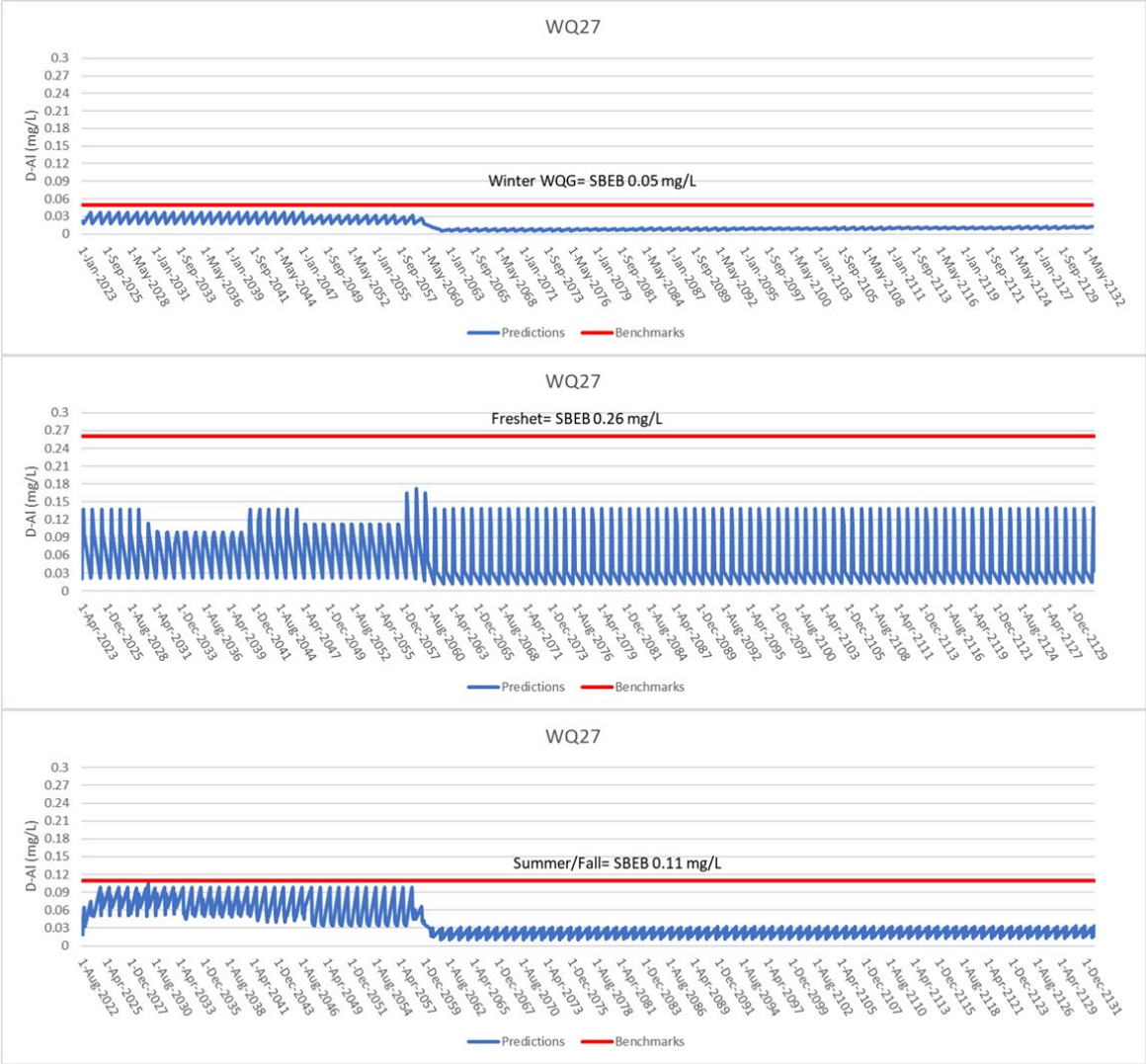

Figure 5-2: Water quality predictions for dissolved aluminum (D-Al) in station WQ27 located in Davidson Creek for all mine phases (construction, operations, closure and post-closure) for the Blackwater Gold Project compared against proposed Science-Based Environmental Benchmark (SBEB; solid red line). Monthly predictions are grouped by flow periods winter, freshet and summer/fall.

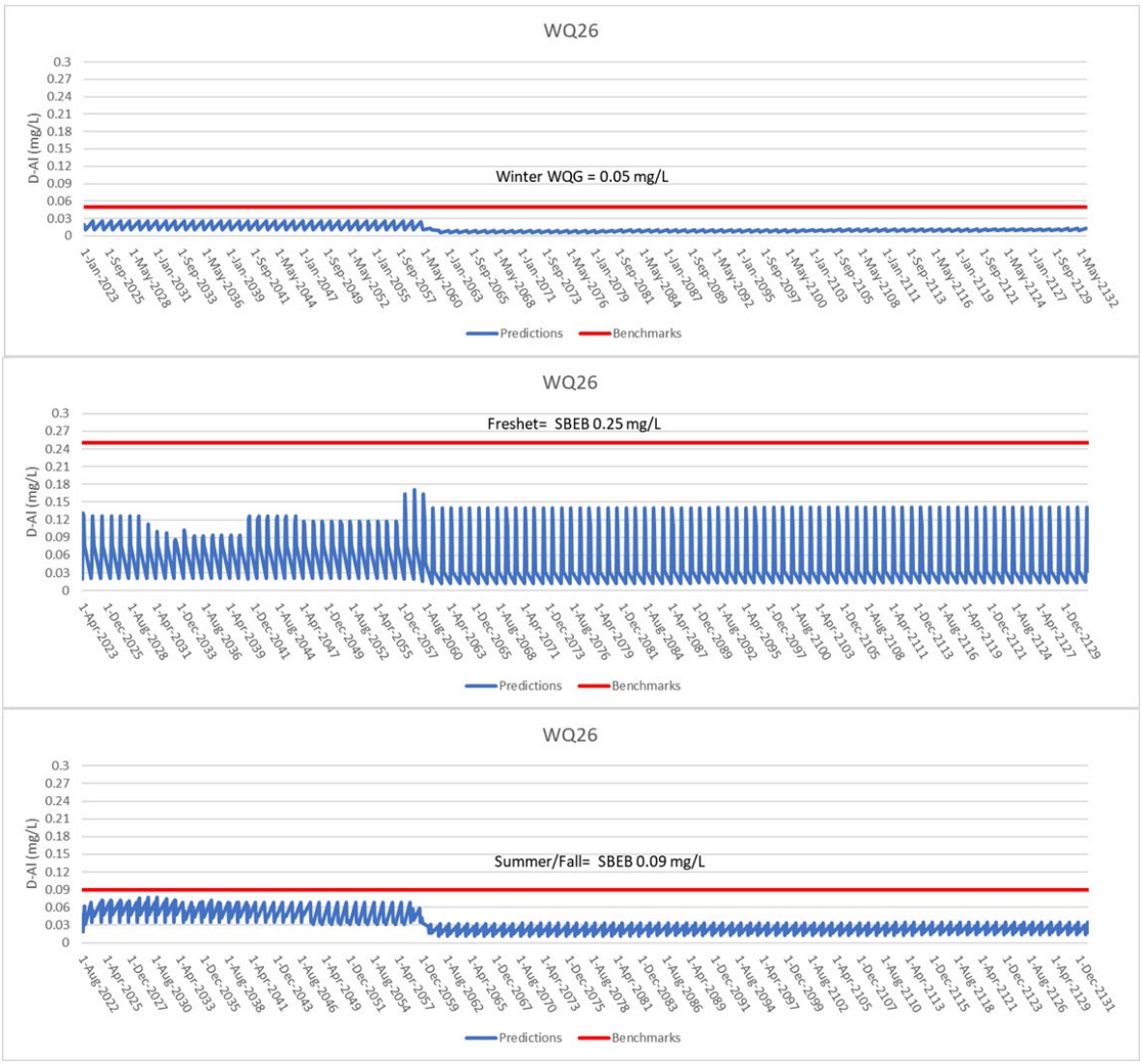

Figure 5-3: Water quality predictions for dissolved aluminum (D-Al) in station WQ26 located in Davidson Creek for all mine phases (construction, operations, closure and post-closure) for the Blackwater Gold Project compared against proposed Science-Based Environmental Benchmark (SBEB; solid red line). Monthly predictions are grouped by flow periods winter, freshet and summer/fall.

Figure 5-4: Water quality predictions for dissolved aluminum (D-Al) in station WQ7 located in Davidson Creek for all mine phases (construction, operations, closure and post-closure) for the Blackwater Gold Project compared against proposed Science-Based Environmental Benchmark (SBEB; solid red line). Monthly predictions are grouped by flow periods: winter, freshet and summer/fall.

For Davidson Creek, predicted concentrations remain below the D-Al SBEB value for all stations through all mine phases (Construction Operations, Closure, Post-Closure). Therefore, adverse effects to receiving aquatic systems are not expected to occur. Effects to drinking water and wildlife are not expected as the proposed SBEBs fall below relevant BC water quality guidelines (human and wildlife receptor guidelines of 9.5 mg D-Al/L and 5 T-Al mg/L, respectively).

Although adverse effects due to D-Al exposure in aquatic biota are not expected to occur, concentrations will be routinely monitored as part of the Aquatic Effects Monitoring Plan (AEMP), which will be submitted with the Joint Application. Monitoring results obtained through the AEMP will be used in an adaptive management approach that will routinely evaluate the appropriateness of the SBEB and prescribe updates to monitoring plans and inform mitigation efforts, as necessary.

5.2 Uncertainty Considerations

Sources of uncertainty may include occasional sampling and measurement errors that occurred during the baseline program. However, the results of the QA/QC samples collected during the baseline monitoring program suggest the risk of this source of uncertainty is relatively low. Based on this, it is not expected that the described uncertainty sources will affect the reliability and protective nature of the proposed SBEB value.

The predictive WBM and WQM represent an additional uncertainty to the present assessment. Uncertainty associated with the models is mitigated to the degree possible through the incorporation of reasonable conservatism in all assumptions and estimates. It is further noted that, in the case of Al, the Project is expected to contribute a relatively low level of Al loading to the receiving environment as reflected in the Project's geochemical source terms (described further in Section 5.4 and the WQM technical report in Appendix 5-D). The primary source of D-Al to Davidson Creek is attributed to the management of background waters that contain naturally-elevated concentrations of D-Al within and around the mine footprint.

6. Monitoring and Adaptive Management

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6. Monitoring and Adaptive Management

During the Project Construction and Operation phases, Project activities are not expected to measurably increase D-Al concentrations in the receiving environment to the extent that mitigations to specifically address D-Al are required. However, occasional exceedances of the proposed SBEB may occur due to natural variability. There is also potential for exceedances of the BC WQG from January 1 to March 31 (during which no SBEB is proposed) in the event of a late-winter warming period or early spring freshet. As such, D-Al concentrations will be routinely monitored as part of the AEMP. Monitoring results obtained through the AEMP will be used in an adaptive management approach that will routinely evaluate the appropriateness of the SBEB and prescribe updates to monitoring plans and inform mitigation efforts, as necessary. The AEMP will also include water quality sampling in the Creek 661 mainstem and tributaries in support of anticipated site-specific D-Al SBEBs.

The adaptive management approach may include immediate confirmatory sampling if an exceedance of the D-Al WQG or SBEB occurs. The sample would be analyzed for, at a minimum, parameters that may inform the cause and potential risk associated with the exceedance (*e.g.,* at minimum, pH, TSS, turbidity, DOC, hardness, total Al, D-Al, and field pH). This event would further trigger an internal review of concurrent or related events, Project activities, and sources that may have contributed to the exceedance. The results of the review would be reported to regulators and stakeholders as prescribed in the EA Certificate and EMA effluent permit.

It is acknowledged that potential exists for background D-Al concentrations in Davidson Creek and/or Creek 661 to change over time (*e.g*., as a result of climate change-related shifts in annual precipitation) that may warrant an adjustment to the SBEB(s). To support the identification of such potential changes, an extensive hydrological monitoring network has been established for the Project and will continue to be monitored as the Project progresses. Water quality will continue to be measured at stations established in reference streams per the AEMP that show naturally-elevated D-Al concentrations (*e.g*., Fawnie Creek station FC-01; Turtle Creek station TC-01; upper Creek 661 mainstem 661-01). BW Gold will work within the adaptive management framework presented in the SBEB application documents and the AEMP to evaluate the appropriateness of SBEBs as new scientific information and monitoring program results become available. If the need to adjust the SBEB is identified, BW Gold will work with ENV to develop an updated SBEB or an alternative framework from which to evaluate D-Al concentrations.

Lastly, it is noted a Trigger Response Plan (TRP) requirement is anticipated as a condition within the EMA effluent permit. This plan is expected to consider steps to evaluate potential exceedances of both the WQGs and the proposed D-Al SBEBs, and identify and address potential causes. The AEMP and TRP would be implemented to investigate any potential impacts of exceedances of either WQG's and/or proposed D-Al SBEBs.

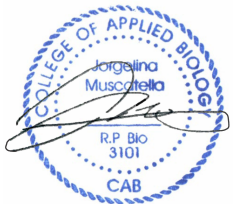
7. Closure

7. Closure

We trust that the information provided herein is sufficient for your present needs. Should you require anything further, please contact the undersigned.

Yours sincerely,
Lorax Environmental Services

Prepared by:



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Appendix A: Summary Report Checklist

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Appendix A - Checklist for Phase 2: SBEB Submission

This checklist identifies items to be included into the submission of a proposed SBEB.

Information Requirements	Information Provided				Location in Document (pagenumber and section)	Comments
	Provided	Partially Provided	Not Provided	Not Applicable		
Qualified Professionals						
Qualified professional(s) has (have) developed and signed the SBEB submission.	X				Section 7; Page 7-1	
The qualified professionals are practicing in the area of their expertise.	X				Section 7; Page 7-1	
Document Requirements						
Executive summary is included.	X				Page i, Executive Summary	
Raw data is included.	X				Appendices B and D	
Graphs showing seasonal trends for parameters of concernand/or used to determine toxicity have been included.	X				Section 3.4; Pages 3-2 to 3-5	Graphs showing seasonal trends for D-Al concentrations will be presented.
Field notes for sampling and any field work were submitted.				X		This information is not used to support the derivation of the D-AL SBEB.
Toxicity test laboratory reports and laboratory techniciannotes included.				X		This information is not used to support the derivation of the D-AL SBEB.
Toxicity test checklists are completed and included.				X		This information is not used to support the derivation of the D-AL SBEB.
Literature review data classifications are included.				X		This information is not used to support the derivation of the D-AL SBEB.
Aquatic effects monitoring plan (AEMP) is included.		X			Section 6; Pages 6-1 to 6-2	The AEMP will be provided as part of the JA; relevant components of that plan will be summarized in the SBEB Submission document.
Adaptive management approaches are included.		X			Section 6; Pages 6-1 to 6-2	
Applicable drinking water guidelines and other WQGs are listed.	X				Section 3.3; Page 3-2	
SBEB Development History						
Summary of site conditions, effluent quality projections, aquatic receptors, toxic factors unique to the site and parameters for SBEB.	X				Sections 3.1, 3.2, 3.4; Pages 3-1 to 3-5 Section 5.1; Pages 5-1 to 5-5	
Summary of problem formulation and conceptual site model.	X				Section 2; Pages 2-1 to 2-2	
Summary of the rationale for creating an SBEB vs. using WQGs.	X				Section 4; Pages 4-1 to 4-4	The Environmental Assessment Certificate for the project states that WQGs or SBEBs must be met in the receiving environment. Because D-Al naturally exceeds the WQG in the receiving environment, an SBEB is required. The aquatic effects assessment and proposed mine water management strategies in the JA will need to incorporate and evaluate potential Project effects using the proposed SBEB due to natural background exceedances.
Summary of any conditions or directions during ministry review of SBEB Development Plan	X				Sections 1.1, 1.4; Pages 1-1 and 16 Section 4; Page 4-1 & Appendix	A summary of conditions and directions received by the ministry on SBEB derivation and documentation will be presented.
Lines of Evidence/Scientific Approach						
Summary of peer-reviewed scientific literature and/or reference documents used to develop the approaches and lines of evidence including methods used.	X				Section 3.1 to 3.3; Pages 3-1 to 3-2 Section 4.1: Pages 4-1 to 4-2	
A table describing key details of toxicology studies that were classified and used in SBEB development.				X		This information is not used to support the derivation of the D-AL SBEB.

Appendix A - Checklist for Phase 2: SBEB Submission

This checklist identifies items to be included into the submission of a proposed SBEB.

Information Requirements	Information Provided				Location in Document (pagenumber and section)	Comments
	Provided	Partially Provided	Not Provided	Not Applicable		
A detailed description of tests, models or sampling methods used for SBEB development, including documentation of any ministry-accepted changes to methods or protocols.	☐	☐	☐	☒		This information is not used to support the derivation of the D-AL SBEB.
A detailed explanation of the quality assurance and quality control procedures implemented.	☒	☐	☐	☐	Section 4.2; Page 4-4	A summary of QA/QC related to the D-Al dataset and data manipulation as the basis of the proposed SBEB will be presented.
Sampling details and analysis results of water, sediments and/or biota for toxicity tests applicable for SBEB development.	☐	☐	☐	☒		This information is not used to support the derivation of the D-AL SBEB. Toxicology studies and/or sample analysis are not required for the SBEB's derivation.
Description of data quality and how data were handled that did not meet data quality objectives.	☒	☐	☐	☐	Section 4.2; Page 4-4	Information requirement updated May 5, 2021. Notably, the rationale will be included for any baseline data omitted from the background calculation procedure (*e.g.*, outliers).
Detailed summary of all statistical analyses, and statistical results.	☒	☐	☐	☐	Section 3.4; Pages 3-4 and 3-5	
Data tabulation with summary statistics (*i.e.,* maximum, minimum, median, and mean with confidence intervals).	☒	☐	☐	☐	Section 3.4; Pages 3-4 and 3-5	
Description of SBEB including discussion supporting the value or attribute proposed based on the lines of evidence.	☒	☐	☐	☐	Section 4.1; Pages 4-1 to 4.4 Section 5.1; Pages 5-1 to 5-6	
Demonstration of how SBEB will meet WQGs in the downstream environment and will not conflict with area based management plan or policies and legislation.	☐	☐	☐	☒		Not applicable as SBEB will be based on existing conditions.
Discussion of uncertainties (including but not limited to test results, statistical analyses, water quality and species variabilities, and toxicological uncertainties) related to SBEB development and resulting effectiveness in protecting aquatic life.	☒	☐	☐	☐	Section 5.2; Page 5-6	
Monitoring and Adaptive Management Approach to Mitigation or Future Monitoring						
Detailed monitoring plan proposal to evaluate SBEB achievement in the receiving environment and effectiveness in protecting aquatic life.	☐	☒	☐	☐	Section 6; Pages 6-1 and 6-2	The monitoring plan proposal will tie into the AEMP submitted under the JA. Components of the AEMP relevant to D- Al will be summarized in the SBEB Submission.
Monitoring protocols, sampling and analysis methods, statistical analyses methods, and QA/QC protocols.	☐	☒	☐	☐	Section 6; Pages 6-1 and 6-2	The monitoring plan proposal will tie into the AEMP submitted under the JA. Components of the AEMP relevant to D- Al will be summarized in the SBEB Submission.
Detailed explanation of how the monitoring program will accomplish its objective (i.e., why certain times of year should be sampled, how the frequency evaluates the effectiveness, etc.).	☐	☒	☐	☐	Section 6; Pages 6-1 and 6-2	The monitoring plan proposal will tie into the AEMP submitted under the Joint Application.
Description of an adaptive management approach under the permit.	☐	☒	☐	☐	Section 6; Pages 6-1 and 6-2	The monitoring plan proposal will tie into the AEMP submitted under the JA. The AEMP will include an adaptive management approach. Components of the AEMP relevant to D-Al will be summarized in the SBEB Submission.
Detailed summary of contingency measures planned should SBEBs not be achieved or protective of aquatic life (*e.g.*, treatment options, site management practices, further research to reduce uncertainties related to an SBEB).	☒	☐	☐	☐	Section 6; Pages 6-1 and 6-2	A detailed description of contingency measures for the mine will be presented in the JA. A summary of contingency measures specific to D-Al will be presented in the SBEB Submission document.
Planned reporting of monitoring result, including data analyses, reporting frequency, report content and format.	☒	☐	☐	☐	Section 6; Pages 6-1 and 6-2	The reporting of monitoring results is proposed to be tied into annual reporting requirements under the effluent permit.

JA: Joint Application for *Mines Act* and *Environmental Management Act* Permits

Appendix B:
Baseline Water Quality Data

BW GOLD LTD

a subsidiary company of Artemis Gold Inc

Site	Date	pH	Hardness mg/L $CaCO_3$	Dissolved Organic Carbon mg/L	Total Suspended Solids mg/L	Dissolved Aluminum mg/L
WQ7	12-Jan-22	7.74	49.8	2.48	<3.0	0.008
WQ7	1-Feb-22	7.79	52.2	2.73	<3.0	0.009
WQ7	9-Feb-22	7.83	51.7	2.41	<3	0.008
WQ7	16-Feb-22	7.91	56.6	3.07	<3.0	0.009
WQ7	24-Feb-22	7.94	55.3	2.8	<3.0	0.009
WQ7	28-Feb-22	7.95	58.5	2.67	<3.0	0.006
WQ7	9-Mar-22	7.58	56.1	4.45	<3.0	0.007
WQ7	7-Apr-22	7.83	43	8.4	9.7	0.009
WQ7	3-May-22	7.68	34.6	11.4	3.3	0.036
WQ7	10-May-22	7.64	31.9	12.3	7.2	0.072
WQ7	18-May-22	7.44	22.7	15.1	30.3	0.083
WQ7	24-May-22	7.29	19.6	14.6	19.0	0.130
WQ7	31-May-22	7.24	15.7	13.3	10.8	0.154
WQ7	9-Jun-22	7.61	28.7	10.6	<3.0	0.139
WQ7	11-Jul-22	7.72	38.6	6.95	<3.0	0.062
WQ7	15-Dec-20	7.44	43	5.11	<3.0	0.037
WQ7	12-Jan-21	7.76	42.6	5.22	<3.0	0.023
WQ7	7-Oct-21	7.86	40.4	5.32	<3.0	0.015
WQ7	12-Oct-21	7.73	37.5	6.04	<3.0	0.022
WQ7	19-Oct-21	7.65	37.8	5.48	<3.0	0.024
WQ7	25-Oct-21	7.77	40.6	4.75	<3.0	0.023
WQ7	2-Nov-21	7.66	51.2	3.19	<3.0	0.017
WQ7	18-Feb-21	7.81	51.2	3.7	<3.0	0.015
WQ7	18-Mar-21	7.27	16.8	12	6.7	0.010
WQ7	27-May-21	7.49	24.8	6.74	<3.0	0.151
WQ7	21-Jun-21	7.8	42.7	4.27	4.3	0.053
WQ7	13-Jul-21	7.85	47.6	4.12	4.2	0.019
WQ7	3-Aug-21	6.94	45	5.26	4.2	0.014
WQ7	22-Sep-21	8.14	51	2.2	<2	0.020
WQ7	19-Apr-11	7.4	17.2	20.1	11	0.005
WQ7	17-May-11	7.25	37.3	22.7	38	0.171
WQ7	30-May-11	7.17	15	15	37	0.196
WQ7	6-Jun-11	7.19	20.8	11	41	0.160
WQ7	13-Jun-11	7.27	18.6	9.2	9	0.114
WQ7	18-Jul-11	7.41	16.6	10.9	9	0.099
WQ7	15-Aug-11	7.66	32.6	5.8	6	0.027
WQ7	19-Sep-11	7.66	43.6	3.6	<2	0.012
WQ7	19-Sep-11	7.58	39.8	3.7	<2	0.010
WQ7	17-Oct-11	7.55	52.7	5.2	<2	0.019
WQ7	17-Oct-11	7.58	48.1	4.8	<2	0.019
WQ7	14-Nov-11	7.51	50.9	4	2	0.012
WQ7	13-Dec-11	7.4	42.4	3.4	11	0.010
WQ7	13-Dec-11	7.52	56.3	3.6	8	0.009
WQ7	12-Jan-12	7.58	65	3.7	<2	0.005
WQ7	13-Feb-12	7.86	16.8	2.4	2	<0.002
WQ7	13-Feb-12	7.88	51.7	2.2	<2	<0.002
WQ7	12-Mar-12	7.95	57.6	2.1	<2	0.005
WQ7	17-Apr-12	7.89	110	12.9	<2	0.027
WQ7	17-Apr-12	7.83	21.2	13	<2	0.029
WQ7	15-May-12	7.43	22.4	13.5	73	0.146
WQ7	23-May-12	7.4	59.7	12.6	26	0.189
WQ7	28-May-12	7.45	25.3	11.8	37	0.161
WQ7	28-May-12	7.39	26.7	11.9	40	0.139
WQ7	4-Jun-12	7.44	59.5	9.9	21	0.110
WQ7	11-Jun-12	7.11	62	8.9	12	0.126
WQ7	18-Jun-12	7.54	16.7	8.2	7	0.334
WQ7	16-Jul-12	7.74	59.1	5.3	3	0.025
WQ7	16-Jul-12	7.65	26.6	5.6	4	0.024
WQ7	13-Aug-12	7.82	53.2	5.4	<2	0.019
WQ7	13-Aug-12	7.86	21.2	5.5	2	0.020
WQ7	17-Sep-12	7.83	18.3	11.9	<2	0.010

Site	Date	pH	Hardness mg/L $CaCO_3$	Dissolved Organic Carbon mg/L	Total Suspended Solids mg/L	Dissolved Aluminum mg/L
WQ7	16-Oct-12	7.86	66.6	9.2	<2	0.007
WQ7	12-Nov-12	7.87	20.5	3.7	<2	0.011
WQ7	12-Nov-12	7.77	20.6	3.8	<2	0.011
WQ7	10-Dec-12	7.82	53.2	2.8	<2	0.007
WQ7	15-Jan-13	7.66	19.3	2.9	5	0.008
WQ7	15-Jan-13	7.64	43.4	3	2	0.008
WQ7	13-Feb-13	7.78	46	3.1	3	0.012
WQ7	13-Feb-13	7.77	50.4	3.4	<2	0.010
WQ7	12-Mar-13	7.8	56.2	2.2	3	0.005
WQ7	16-Apr-13	7.79	21.5	7.1	<2	0.018
WQ7	16-Apr-13	7.74	18.2	7.2	<2	0.019
WQ7	14-May-13	7.16	15.1	11.8	<2	0.194
WQ7	21-May-13	7.28	17.8	9.4	7	0.117
WQ7	28-May-13	7.4	19.2	10.3	15	0.173
WQ7	4-Jun-13	7.35	28.2	10.4	14	0.128
WQ7	4-Jun-13	7.37	28.4	10.5	15	0.128
WQ7	11-Jun-13	7.46	39.1	8	6	0.076
WQ7	18-Jun-13	7.46	40.4	10.7	10	0.112
WQ7	18-Jun-13	7.48	40.4	10.7	12	0.114
WQ7	13-Apr-14	7.63	41.9	6.7	28	0.016
WQ7	2-Jul-14	7.51	38	6.3	6	0.024
WQ7	24-Sep-14	7.85	40.8	2.7	<2	0.014
WQ7	9-Dec-14	7.58	43.8	1.8	<2	<0.002
WQ7	10-Aug-16	7.8	22.4	6.58	<3.0	0.028
WQ7	16-Aug-16	7.61	50.9	5.37	<3.0	0.021
WQ7	23-Aug-16	7.77	56.1	5.3	<3.0	0.022
WQ7	31-Aug-16	7.7	51	5.65	<3.0	0.019
WQ7	7-Sep-16	7.71	39.7	7.06	<3.0	0.023
WQ7	12-Apr-17	7.89	12.9	<0.50	<3.0	0.010
WQ7	11-May-17	7.4	19.2	14.8	12.4	0.173
WQ7	11-May-17	7.38	39.1	14.9	11.6	0.162
WQ7	7-Jun-17	7.49	39.2	9.93	<3.0	0.099
WQ7	19-Jul-17	7.9	45.6	4.33	<3.0	0.014
WQ7	30-Aug-17	7.97	47.1	3.25	<3.0	0.009
WQ7	9-Sep-17	7.97	14.5	3.58	3.2	0.008
WQ7	17-Oct-17	8	38.7	4.66	12.6	0.015
WQ7	7-Nov-17	7.64	46.8	6.72	<3.0	0.037
WQ7	7-Nov-17	7.73	37.3	6.7	3.7	0.038
WQ7	11-Dec-17	7.61	14.5	4.62	<3.0	0.019
WQ7	24-Jan-18	7.89	37.5	2.8	<3.0	0.011
WQ7	28-Feb-18	7.89	60.9	2.38	<3.0	0.007
WQ7	28-Mar-18	7.93	18.5	2.46	4.6	0.007
WQ7	17-Apr-18	7.91	48.8	3.22	<3.0	0.009
WQ7	16-May-18	7.33	14.3	12.3	46.6	0.153
WQ7	16-May-18	7.35	17.6	13.8	59.3	0.158
WQ7	30-May-18	7.58	18.2	8.61	5.5	0.076
WQ7	17-Jul-18	7.89	64.8	4.73	<3.0	0.016
WQ7	17-Jul-18	7.83	21.5	4.83	<3.0	0.019
WQ7	9-Aug-18	7.96	63.3	4.32	<3.0	0.014
WQ7	12-Sep-18	8.05	20.8	2.98	<3.0	0.008
WQ7	12-Sep-18	8.06	30.4	2.9	3.8	0.008
WQ7	24-Oct-18	7.9	40	4.39	<3.0	0.012
WQ7	24-Oct-18	7.9	42.3	4.45	<3.0	0.013
WQ7	27-Nov-18	7.74	49.4	5.41	<3.0	0.029
WQ7	19-Dec-18	7.82	52.8	3.59	<3.0	0.016
WQ7	29-Jan-19	7.89	16.2	2.91	<3.0	0.010
WQ7	29-Jan-19	7.97	36.7	2.84	<3.0	0.010
WQ7	11-Feb-19	7.76	24.6	2.43	<3.0	0.009
WQ7	14-Mar-19	7.95	44.5	1.95	<3.0	0.006
WQ7	9-Apr-19	7.83	47.1	7.96	4.1	0.019
WQ7	4-May-19	7.47	40.6	11.1	17.2	0.111

Site	Date	pH	Hardness mg/L $CaCO_3$	Dissolved Organic Carbon mg/L	Total Suspended Solids mg/L	Dissolved Aluminum mg/L
WQ7	4-May-19	7.58	29.3	11.3	19	0.113
WQ7	21-May-19	7.49	10.1	17	76	0.195
WQ7	28-May-19	7.49	14	13	13.4	0.101
WQ7	29-May-19	7.57	30.5	12.2	12.3	0.087
WQ7	4-Jun-19	7.77	31.4	9.37	6.4	0.063
WQ7	4-Jun-19	7.82	36.4	9.55	8.4	0.061
WQ7	18-Jul-19	7.51	33.1	9.63	6	0.078
WQ7	12-Aug-19	7.63	37.2	9.34	5.2	0.069
WQ7	16-Sep-19	7.86	30.4	5.04	<3.0	0.020
WQ7	22-Oct-19	7.69	24.3	8.1	<3.0	0.054
WQ7	25-Nov-19	7.55	33	9.31	<3.0	0.093
WQ7	17-Dec-19	7.56	35	4.95	<3.0	0.038
WQ7	27-Jan-20	7.83	40.8	3.84	<3.0	0.017
WQ7	19-Feb-20	7.86	41.6	3.36	<3.0	0.012
WQ7	18-Mar-20	7.98	43.7	2.91	<3.0	0.009
WQ7	7-Apr-20	7.72	38.6	2.48	<3.0	0.008
WQ7	7-May-20	7.29	40.2	12.2	4.2	0.140
WQ7	13-May-20	7.35	44.3	12.1	11.7	0.151
WQ7	20-May-20	7.17	43.8	12.4	11.8	0.152
WQ7	28-May-20	7.15	40.8	9.76	23.2	0.103
WQ7	2-Jun-20	6.91	28.8	8.48	5.8	0.085
WQ7	6-Jul-20	7.53	20.8	9.3	4.2	0.064
WQ7	6-Jul-20	7.51	19.8	9.41	4.3	0.066
WQ7	5-Aug-20	7.75	13.9	4.72	<3.0	0.020
WQ7	11-Aug-20	7.85	12	5.32	<3.0	0.022
WQ7	11-Aug-20	7.82	14.2	5.18	9.1	0.023
WQ7	18-Aug-20	7.75	40.1	5.6	7.1	0.021
WQ7	24-Aug-20	7.72	25.5	5.5	<3.0	0.022
WQ7	2-Sep-20	7.88	27.3	5.25	<3.0	0.019
WQ7	6-Oct-20	7.83	25	4.68	<3.0	0.013
WQ7	5-Nov-20	7.44	26.2	13.1	9.8	0.183
WQ26	10-Jan-22	7.72	28.1	2.45	<3.0	0.010
WQ26	9-Mar-22	7.96	35.9	2.42	<3.0	0.009
WQ26	4-Apr-22	7.84	36.4	3.34	<3.0	0.010
WQ26	2-May-22	7.82	11.5	5.97	6.7	0.029
WQ26	6-Jun-22	7.04	32.5	14.7	8.3	0.187
WQ26	5-Jul-22	7.43	39.6	12.1	<3.0	0.112
WQ26	14-Oct-21	7.79	27.5	5.62	<3.0	0.026
WQ26	23-Nov-21	7.81	23.5	3.65	<3.0	0.024
WQ26	6-Dec-21	7.87	33.8	3.33	<3.0	0.015
WQ26	16-Feb-21	7.89	34	3.15	<3.0	0.018
WQ26	27-May-21	7.23	40.3	11.7	3.1	0.167
WQ26	13-Jul-21	7.8	40.9	3.84	<3.0	0.019
WQ26	12-Aug-21	7.98	12.7	2.88	3.6	0.012
WQ26	28-Sep-21	7.77	27.2	6.94	3.3	0.036
WQ26	27-May-21	7.24	14.4	12.4	<3.0	0.174
WQ26	28-Sep-21	7.78		6.89	4.3	0.038
WQ26	13-Jan-13	7.7		2.4	<2	0.009
WQ26	12-Feb-13	7.8		2.2	<2	0.007
WQ26	11-Mar-13	7.88		2	<2	0.005
WQ26	15-Apr-13	7.74		4.9	<2	0.018
WQ26	13-May-13	7.53		12.8	7	0.241
WQ26	22-May-13	7.24		5	<2	0.020
WQ26	27-May-13	7.29		11.5	6	0.213
WQ26	6-Jun-13	7.29		11	6	0.166
WQ26	10-Jun-13	7.4		7.9	2	0.098
WQ26	17-Jun-13	7.33		9.1	5	0.113
WQ26	27-Apr-16	7.28		7.69	4.6	0.143
WQ26	27-Apr-16	7.22		14	5.6	0.169
WQ26	3-May-16	7.46		11.4	3.4	0.135
WQ26	3-May-16	7.4		11.5	<3.0	0.160

Site	Date	pH	Hardness mg/L $CaCO_3$	Dissolved Organic Carbon mg/L	Total Suspended Solids mg/L	Dissolved Aluminum mg/L
WQ26	9-May-16	7.56		8.69	<3.0	0.107
WQ26	16-May-16	7.67		7.32	<3.0	0.072
WQ26	25-May-16	7.77		6.5	<3.0	0.058
WQ26	22-Jun-16	7.6		9.72	<3.0	0.079
WQ26	3-Aug-16	7.66		6.42	<3.0	0.045
WQ26	3-Aug-16	7.7		6.72	<3.0	0.044
WQ26	10-Aug-16	7.83		6.53	<3.0	0.036
WQ26	16-Aug-16	7.83		5.1	<3.0	0.025
WQ26	23-Aug-16	7.75		5.2	<3.0	0.028
WQ26	23-Aug-16	7.72		5.12	<3.0	0.026
WQ26	31-Aug-16	7.72		5.83	<3.0	0.027
WQ26	7-Sep-16	7.67		7.07	<3.0	0.035
WQ26	12-Apr-17	7.96		3.32	<3.0	0.008
WQ26	11-May-17	7.32		15	3.2	0.203
WQ26	17-May-17	7.43		13.5	<3.0	0.166
WQ26	17-May-17	7.4		14	3.8	0.169
WQ26	24-May-17	7.18		15.3	8.7	0.199
WQ26	30-May-17	7.26		12.2	4.4	0.171
WQ26	30-May-17	7.25		12.1	3.2	0.175
WQ26	7-Jun-17	7.44		9.94	3.5	0.115
WQ26	7-Jun-17	7.42		10.1	4.7	0.120
WQ26	24-Jul-17	7.85		4.16	<3.0	0.021
WQ26	30-Aug-17	8.03		2.39	<3.0	0.010
WQ26	6-Sep-17	7.97		3.12	<3.0	0.012
WQ26	13-Sep-17	7.99		2.6	4.5	0.009
WQ26	21-Sep-17	7.89		2.94	<3.0	0.010
WQ26	28-Sep-17	7.99		3.02	<3.0	0.009
WQ26	17-Oct-17	7.95		6.83	10.3	0.046
WQ26	7-Nov-17	7.75		6.4	<3.0	0.049
WQ26	12-Dec-17	7.87		4.7	<3.0	0.025
WQ26	24-Jan-18	8.07		2.76	<3.0	0.014
WQ26	14-Feb-18	7.94		2.83	<3.0	0.011
WQ26	28-Mar-18	8.12		2.21	<3.0	0.006
WQ26	17-Apr-18	8.03		2.38	<3.0	0.009
WQ26	16-May-18	7.31		12.8	18.5	0.172
WQ26	29-May-18	7.57		8.83	5	0.097
WQ26	18-Jul-18	7.93		4.25	<3.0	0.019
WQ26	7-Aug-18	7.94		4.35	<3.0	0.018
WQ26	7-Aug-18	7.94		4.29	<3.0	0.018
WQ26	28-Aug-18	8		2.42	<3.0	0.012
WQ26	4-Sep-18	8.03		2.93	<3.0	0.009
WQ26	7-Sep-18	7.97		2.42	<3.0	0.009
WQ26	7-Sep-18	8.01		2.35	<3.0	0.010
WQ26	11-Sep-18	8.04		2.59	<3.0	0.010
WQ26	26-Oct-18	7.78		4.25	<3.0	0.017
WQ26	27-Nov-18	7.69		4.82	<3.0	0.044
WQ26	18-Dec-18	7.92		3.65	<3.0	0.020
WQ26	30-Jan-19	7.88		2.7	<3.0	0.013
WQ26	11-Feb-19	7.84		2.7	<3.0	0.011
WQ26	13-Mar-19	7.88		1.99	<3.0	0.007
WQ26	13-Mar-19	7.89		1.79	<3.0	0.007
WQ26	8-Apr-19	7.7		5.82	<3.0	0.044
WQ26	4-May-19	7.44		11.5	10.2	0.144
WQ26	13-May-19	7.28		13.6	8.4	0.164
WQ26	21-May-19	7.09		18.3	20	0.216
WQ26	29-May-19	7.49		11.3	5.3	0.111
WQ26	3-Jun-19	7.58		9.15	3.5	0.088
WQ26	16-Jul-19	7.71		9.5	<3.0	0.077
WQ26	8-Aug-19	7.69		8.98	<3.0	0.068
WQ26	16-Sep-19	7.79		5.22	<3.0	0.029
WQ26	16-Sep-19	7.79		5.06	3.1	0.029

Site	Date	pH	Hardness mg/L $CaCO_3$	Dissolved Organic Carbon mg/L	Total Suspended Solids mg/L	Dissolved Aluminum mg/L
WQ26	22-Oct-19	7.62		7.66	<3.0	0.073
WQ26	22-Oct-19	7.62		8.15	<3.0	0.072
WQ26	14-Nov-19	7.75		7.67	<3.0	0.078
WQ26	16-Dec-19	7.4		5.33	<3.0	0.047
WQ26	21-Jan-20	7.75		4.73	<3.0	0.026
WQ26	13-Feb-20	7.7		3.34	<3.0	0.014
WQ26	16-Mar-20	7.75		2.85	<3.0	0.011
WQ26	7-Apr-20	7.75		2.23	<3.0	0.010
WQ26	14-May-20	7.13		12.9	4.2	0.167
WQ26	5-Aug-20	7.71		4.32	<3.0	0.025
WQ26	17-Nov-20	7.44		8.57	3	0.095
WQ27	10-Jan-22	7.71	44.5	2.33	<3.0	0.016
WQ27	9-Mar-22	7.91	47.1	2.5	<3.0	0.013
WQ27	4-Apr-22	7.73	40.6	2.71	<3.0	0.016
WQ27	2-May-22	7.64	29.3	7.36	7.3	0.060
WQ27	6-Jun-22	6.88	10.1	14.6	3.1	0.200
WQ27	5-Jul-22	7.31	14	11.7	<3.0	0.137
WQ27	14-Oct-21	7.69		5.47	<3.0	0.039
WQ27	23-Nov-21	7.73		3.93	<3.0	0.033
WQ27	6-Dec-21	7.77		3.02	<3.0	0.024
WQ27	13-Jul-21	7.51		3.8	<3.0	0.028
WQ27	3-Aug-21	7.77		3.86	3.8	0.022
WQ27	28-Sep-21	7.66		7.46	3.3	0.055
WQ27	13-Apr-14	7.71		2.6	<2	0.010
WQ27	2-Jul-14	7.37		5.8	<2	0.048
WQ27	24-Sep-14	7.84		2.2	<2	0.009
WQ27	9-Dec-14	7.78		1.9	<2	0.002
WQ27	27-Apr-16	7.15		14.6	3.2	0.193
WQ27	3-May-16	7.27		11.3	<3.0	0.149
WQ27	9-May-16	7.45		8.92	<3.0	0.130
WQ27	16-May-16	7.6		7.58	<3.0	0.083
WQ27	25-May-16	7.65		6.56	<3.0	0.081
WQ27	22-Jun-16	7.62		10	<3.0	0.101
WQ27	22-Jun-16	7.63		9.68	<3.0	0.102
WQ27	3-Aug-16	7.68		6.78	<3.0	0.060
WQ27	10-Aug-16	7.72		6.74	<3.0	0.049
WQ27	16-Aug-16	7.7		4.98	<3.0	0.034
WQ27	23-Aug-16	7.62		5.67	<3.0	0.039
WQ27	31-Aug-16	7.58		6.41	<3.0	0.043
WQ27	7-Sep-16	7.55		7.33	<3.0	0.053
WQ27	11-Apr-17	7.9		2.73	<3.0	0.014
WQ27	10-May-17	7.22		15.4	3.5	0.202
WQ27	17-May-17	7.29		14	<3.0	0.193
WQ27	24-May-17	7.05		15.7	4.3	0.211
WQ27	30-May-17	7.09		12.5	<3.0	0.190
WQ27	7-Jun-17	7.3		10.6	4.1	0.138
WQ27	18-Jul-17	7.71		4.1	<3.0	0.028
WQ27	30-Aug-17	7.96		2.26	<3.0	0.011
WQ27	8-Sep-17	7.96		2.87	<3.0	0.014
WQ27	13-Sep-17	7.85		2.85	4.5	0.013
WQ27	13-Sep-17	7.9		2.97	<3.0	0.013
WQ27	21-Sep-17	7.82		3.78	<3.0	0.020
WQ27	28-Sep-17	7.89		3.38	<3.0	0.014
WQ27	19-Oct-17	7.67		10.7	<3.0	0.083
WQ27	8-Nov-17	7.54		6.27	<3.0	0.064
WQ27	12-Dec-17	7.76		4.51	<3.0	0.042
WQ27	24-Jan-18	7.87		2.9	<3.0	0.021
WQ27	14-Feb-18	7.89		2.88	<3.0	0.015
WQ27	28-Mar-18	8.07		2.21	<3.0	0.010
WQ27	17-Apr-18	7.95		2.71	<3.0	0.013
WQ27	9-May-18	7.18		17.9	19.5	0.293

Site	Date	pH	Hardness mg/L $CaCO_3$	Dissolved Organic Carbon mg/L	Total Suspended Solids mg/L	Dissolved Aluminum mg/L
WQ27	16-May-18	7.18		12.9	10.5	0.185
WQ27	23-May-18	7.34		10.3	4.3	0.146
WQ27	23-May-18	7.33		10.5	3.3	0.145
WQ27	29-May-18	7.44		8.66	<3.0	0.121
WQ27	4-Jun-18	7.44		8.97	3.8	0.108
WQ27	4-Jun-18	7.51		8.65	<3.0	0.105
WQ27	18-Jul-18	7.84		4.27	<3.0	0.027
WQ27	7-Aug-18	7.72		4.55	<3.0	0.029
WQ27	28-Aug-18	7.91		2.58	<3.0	0.019
WQ27	28-Aug-18	7.86		2.49	<3.0	0.015
WQ27	4-Sep-18	7.83		2.65	<3.0	0.012
WQ27	7-Sep-18	7.86		2.4	<3.0	0.012
WQ27	11-Sep-18	7.99		2.78	<3.0	0.013
WQ27	26-Oct-18	7.68		4.32	<3.0	0.028
WQ27	29-Nov-18	7.54		6.23	3	0.062
WQ27	29-Nov-18	7.55		6.31	<3.0	0.061
WQ27	18-Dec-18	7.83		3.86	<3.0	0.030
WQ27	30-Jan-19	7.78		2.77	<3.0	0.018
WQ27	11-Feb-19	7.73		2.32	<3.0	0.014
WQ27	13-Mar-19	7.83		1.8	<3.0	0.011
WQ27	8-Apr-19	7.71		5.63	<3.0	0.039
WQ27	4-May-19	7.31		12.4	6.4	0.179
WQ27	14-May-19	7.2		13.8	<3.0	0.175
WQ27	21-May-19	7.45		17.8	8.6	0.246
WQ27	29-May-19	7.27		10.9	<3.0	0.138
WQ27	3-Jun-19	7.37		9.09	<3.0	0.116
WQ27	16-Jul-19	7.45		9.6	<3.0	0.099
WQ27	8-Aug-19	7.55		9.05	<3.0	0.099
WQ27	17-Sep-19	7.75		6.18	<3.0	0.055
WQ27	23-Oct-19	7.61		7.13	<3.0	0.088
WQ27	14-Nov-19	7.62		7.83	<3.0	0.109
WQ27	16-Dec-19	7.31		5.35	<3.0	0.064
WQ27	23-Jan-20	7.7		3.86	<3.0	0.037
WQ27	13-Feb-20	7.7		3.09	<3.0	0.024
WQ27	16-Mar-20	7.66		2.59	<3.0	0.018
WQ27	1-Apr-20	7.67		2.44	<3.0	0.017
WQ28	10-Jan-22	7.68		2.46	<3.0	0.019
WQ28	10-Feb-22	7.78		3.15	<3.0	0.022
WQ28	16-Feb-22	7.82		2.58	<3	0.020
WQ28	22-Feb-22	7.85		2.81	<3.0	0.017
WQ28	2-Mar-22	7.77		2.25	<3.0	0.012
WQ28	4-Apr-22	7.76		2.82	<3.0	0.018
WQ28	2-May-22	7.7		8.17	3.3	0.066
WQ28	9-May-22	7.4		12.6	<3.0	0.154
WQ28	16-May-22	7.34		12.6	<3.0	0.144
WQ28	26-May-22	7.21		16	6.4	0.204
WQ28	1-Jun-22	6.99		14.5	3.6	0.206
WQ28	5-Jul-22	7.26		11.8	<3.0	0.145
WQ28	16-Feb-22	7.8		2.46	<3	0.023
WQ28	6-Oct-21	7.77		4.94	<3.0	0.045
WQ28	13-Oct-21	7.63		6.19	<3.0	0.049
WQ28	19-Oct-21	7.62		6.02	<3.0	0.054
WQ28	26-Oct-21	7.6		6.05	3.5	0.053
WQ28	2-Nov-21	7.63		4.98	<3.0	0.042
WQ28	6-Dec-21	7.78		3.46	<3.0	0.028
WQ28	8-Feb-21	7.6		3.59	<3.0	0.034
WQ28	27-May-21	7.14		12	<3.0	0.192
WQ28	13-Jul-21	7.72		3.79	<3.0	0.032
WQ28	11-Aug-21	7.88		2.85	<3.0	0.024
WQ28	28-Sep-21	7.66		8.28	<3.0	0.059
WQ28	11-Apr-17	7.9		2.57	<3.0	0.016

Site	Date	pH	Hardness mg/L $CaCO_3$	Dissolved Organic Carbon mg/L	Total Suspended Solids mg/L	Dissolved Aluminum mg/L
WQ28	10-May-17	7.21		15.6	<3.0	0.210
WQ28	17-May-17	7.25		14.3	110	0.196
WQ28	24-May-17	7.01		15.6	4.5	0.223
WQ28	24-May-17	7.04		15.7	3.1	0.232
WQ28	30-May-17	7.15		12.6	<3.0	0.197
WQ28	7-Jun-17	7.34		10.1	7.3	0.144
WQ28	18-Jul-17	7.71		4.33	<3.0	0.032
WQ28	18-Jul-17	7.7		4.27	<3.0	0.033
WQ28	30-Aug-17	8		2.31	<3.0	0.012
WQ28	8-Sep-17	8		3.01	16.8	0.015
WQ28	13-Sep-17	7.94		3.07	<3.0	0.015
WQ28	21-Sep-17	7.72		4.01	3.4	0.023
WQ28	21-Sep-17	7.83		4.01	4	0.023
WQ28	28-Sep-17	7.9		3.58	<3.0	0.016
WQ28	28-Sep-17	7.9		3.54	<3.0	0.016
WQ28	19-Oct-17	7.76		11.4	<3.0	0.093
WQ28	8-Nov-17	7.59		6.44	<3.0	0.069
WQ28	12-Dec-17	7.75		4.62	<3.0	0.043
WQ28	24-Jan-18	7.87		3.1	<3.0	0.023
WQ28	14-Feb-18	7.89		2.64	<3.0	0.017
WQ28	28-Mar-18	7.78		2.41	3	0.012
WQ28	17-Apr-18	7.97		2.64	<3.0	0.014
WQ28	9-May-18	7.13		17.3	26.7	0.280
WQ28	9-May-18	7.1		16.8	20.7	0.273
WQ28	16-May-18	7.15		12.4	6.9	0.187
WQ28	23-May-18	7.15		10.2	<3.0	0.156
WQ28	29-May-18	7.43		8.65	<3.0	0.123
WQ28	4-Jun-18	7.48		9.07	8.8	0.109
WQ28	18-Jul-18	7.84		4.32	3.5	0.029
WQ28	7-Aug-18	7.87		4.58	<3.0	0.031
WQ28	28-Aug-18	7.97		2.57	<3.0	0.017
WQ28	4-Sep-18	7.83		2.65	<3.0	0.014
WQ28	4-Sep-18	7.87		2.66	<3.0	0.013
WQ28	7-Sep-18	7.91		2.4	<3.0	0.013
WQ28	11-Sep-18	7.99		2.83	<3.0	0.015
WQ28	26-Oct-18	7.68		4.44	<3.0	0.030
WQ28	29-Nov-18	7.54		6.25	<3.0	0.064
WQ28	18-Dec-18	7.77		3.9	<3.0	0.033
WQ28	30-Jan-19	7.8		2.79	<3.0	0.021
WQ28	11-Feb-19	7.8		2.54	<3.0	0.016
WQ28	13-Mar-19	7.85		1.77	<3.0	0.011
WQ28	8-Apr-19	7.82		5.62	<3.0	0.020
WQ28	4-May-19	7.38		12.4	6.4	0.196
WQ28	14-May-19	7.21		13.2	<3.0	0.189
WQ28	21-May-19	7.5		16.5	9.2	0.243
WQ28	21-May-19	7.43		16.2	13.8	0.251
WQ28	29-May-19	7.35		11	<3.0	0.144
WQ28	29-May-19	7.23		10.9	<3.0	0.152
WQ28	3-Jun-19	7.46		9.26	<3.0	0.120
WQ28	16-Jul-19	7.49		9.37	<3.0	0.101
WQ28	8-Aug-19	7.55		8.98	<3.0	0.102
WQ28	17-Sep-19	7.77		6.21	<3.0	0.053
WQ28	23-Oct-19	7.6		7.18	<3.0	0.092
WQ28	14-Nov-19	7.53		7.95	<3.0	0.110
WQ28	16-Dec-19	7.32		5.63	<3.0	0.070
WQ28	23-Jan-20	7.71		4.44	<3.0	0.040
WQ28	13-Feb-20	7.61		3.22	<3.0	0.026
WQ28	16-Mar-20	7.72		2.78	<3.0	0.021
WQ28	1-Apr-20	7.66		2.58	<3.0	0.022
WQ28	11-May-20	7.05		13.7	<3.0	0.198
WQ28	10-Aug-20	7.75		6.13	<3.0	0.043

Site	Date	pH	Hardness mg/L $CaCO_3$	Dissolved Organic Carbon mg/L	Total Suspended Solids mg/L	Dissolved Aluminum mg/L
WQ28	4-Nov-20	7.17		15.7	5	0.246
WQ3	13-Jan-22	7.93	39.8	1.75	<3.0	0.014
WQ3	10-Feb-22	7.82	40.7	2.88	<3.0	0.018
WQ3	10-Mar-22	8.01	43.3	1.98	<3.0	0.011
WQ3	4-Apr-22	7.8	42.5	1.69	<3.0	0.011
WQ3	2-May-22	7.81	37.3	5.22	10.5	0.034
WQ3	6-Jun-22	7.23	16.4	15.3	8.7	0.105
WQ3	5-Jul-22	7.59	24.8	10.1	<3.0	0.058
WQ3	2-May-22	7.81	37.6	5.04	10.9	0.030
WQ3	19-Oct-21	7.82	41.6	4.36	<3.0	0.024
WQ3	3-Nov-21	7.79	38.4	3.46	<3.0	0.018
WQ3	6-Dec-21	7.86	41.7	2.06	<3.0	0.016
WQ3	18-Feb-21	7.54	41	2.18	<3.0	0.022
WQ3	25-May-21	7.37	19.4	10.3	4.6	0.077
WQ3	14-Jul-21	7.86	39	3.91	100	0.022
WQ3	11-Aug-21	7.93	41.6	3.02	<3.0	0.018
WQ3	28-Sep-21	7.85	40.8	4.9	4.9	0.024
WQ3	17-May-11	7.37	36.2	17.1	19	0.168
WQ3	31-May-11	7.26	25	19.2	<2	0.157
WQ3	7-Jun-11	6.98	19.9	13.5	2	0.108
WQ3	14-Jun-11	7.25	41.9	10.9	3	0.084
WQ3	19-Jul-11	7.34	24.3	8.8	3	0.062
WQ3	16-Aug-11	7.34	16.8	7.3	<2	0.032
WQ3	20-Sep-11	7.64	21.5	5.6	3	0.014
WQ3	18-Oct-11	7.57	16.6	2.5	4	0.016
WQ3	15-Nov-11	7.5	21	2.8	<2	0.013
WQ3	12-Dec-11	7.5	47.2	2.5	2	0.010
WQ3	12-Jan-12	7.51	35.7	2.3	<2	0.006
WQ3	13-Feb-12	7.46	22.2	1.9	<2	0.004
WQ3	12-Mar-12	7.83	42.5	1.5	4	0.006
WQ3	16-Apr-12	7.87	40.9	1.4	<2	0.010
WQ3	14-May-12	7.88	44.6	2.5	2	0.108
WQ3	22-May-12	7.76	44.4	10.5	13	0.119
WQ3	29-May-12	7.43	41.1	10.9	10	0.092
WQ3	5-Jun-12	7.65	20.4	10.4	3	0.071
WQ3	12-Jun-12	7.55	44	9.1	3	0.075
WQ3	19-Jun-12	7.27	21.3	7.7	3	0.066
WQ3	17-Jul-12	7.64	14.5	7	2	0.028
WQ3	14-Aug-12	7.79	41	3.6	<2	0.020
WQ3	18-Sep-12	7.85	46.5	3.6	<2	0.016
WQ3	15-Oct-12	7.78	26.3	10.4	<2	0.014
WQ3	13-Nov-12	7.87	76.9	11.3	<2	0.018
WQ3	10-Dec-12	7.81	45.1	2.6	<2	0.003
WQ3	13-Jan-13	7.86	50.2	6.5	<2	0.012
WQ3	12-Feb-13	7.68	23.8	1.7	<2	0.011
WQ3	11-Mar-13	7.8	24.9	1.7	<2	0.013
WQ3	15-Apr-13	7.79	43.6	1.4	2	0.019
WQ3	13-May-13	7.7	26.4	2.4	<2	0.201
WQ3	22-May-13	7.33	21.6	11.9	4	0.120
WQ3	27-May-13	7.37	26.6	10.1	7	0.138
WQ3	6-Jun-13	7.48	23.4	11.4	3	0.129
WQ3	10-Jun-13	7.33	44.4	11.1	4	0.093
WQ3	17-Jun-13	7.42	46.6	7.6	2	0.105
WQ3	13-Apr-14	7.36	47.3	9.1	3	0.009
WQ3	13-Apr-14	7.7	36.8	0.9	<2	0.009
WQ3	2-Jul-14	7.73	19.8	2.7	4	0.032
WQ3	24-Sep-14	7.55	39.3	3.9	2	0.011
WQ3	9-Dec-14	7.81	27.8	2.2	3	0.006
WQ3	11-May-17	7.7		1.3	<2	0.153
WQ3	19-Jul-17	7.33		13	10.8	0.065
WQ3	6-Sep-17	7.48		7.66	<3.0	0.073

Site	Date	pH	Hardness mg/L $CaCO_3$	Dissolved Organic Carbon mg/L	Total Suspended Solids mg/L	Dissolved Aluminum mg/L
WQ3	18-Oct-17	7.75		11.3	<3.0	0.060
WQ3	23-Feb-18	7.65		10.4	8.1	0.014
WQ3	29-May-18	7.9		2.35	<3.0	0.059
WQ3	7-Aug-18	7.63		9.77	<3.0	0.029
WQ3	29-Nov-18	7.88		6.56	<3.0	0.032
WQ3	12-Feb-19	7.69		5.19	<3.0	0.009
WQ3	13-May-19	7.76		2.77	5.4	0.061
WQ3	12-Aug-19	7.53		9.06	6.8	0.057
WQ3	18-Nov-19	7.62		9.02	3.6	0.089
WQ3	12-Feb-20	7.57		8.96	<3.0	0.019
WQ3	14-May-20	7.81		2.46	3.8	0.089
WQ3	12-Aug-20	7.18		11	3.8	0.021
WQ3	17-Nov-20	7.85		3.78	<3.0	0.081
WQ5	13-Jan-22	7.82	33.4	3.5	<3.0	0.032
WQ5	31-Jan-22	7.77	34.4	3.27	<3.0	0.023
WQ5	10-Feb-22	7.66	32.8	4.45	<3.0	0.039
WQ5	14-Feb-22	7.65	33	4.98	<3.0	0.035
WQ5	22-Feb-22	7.84	37.5	4.13	<3.0	0.029
WQ5	2-Mar-22	7.68	36	3.4	<3.0	0.024
WQ5	6-Apr-22	7.78	35.4	4.35	<3.0	0.028
WQ5	4-May-22	7.47	26.6	12	13.0	0.129
WQ5	9-May-22	7.41	23.8	13.8	7.4	0.164
WQ5	16-May-22	7.4	23.5	14.9	9.2	0.162
WQ5	26-May-22	7.21	14.7	14.5	29.2	0.174
WQ5	2-Jun-22	6.92	11	17.4	8.3	0.185
WQ5	6-Jul-22	7.31	17.4	10.9	4.1	0.114
WQ5	6-Oct-21	7.72	28.4	5.75	<3.0	0.035
WQ5	12-Oct-21	7.68	30.3	6.64	<3.0	0.043
WQ5	21-Oct-21	7.46	28.4	6.8	<3.0	0.051
WQ5	27-Oct-21	7.68	27.1	6	3.0	0.041
WQ5	3-Nov-21	7.53	28.4	6.38	<3.0	0.031
WQ5	14-Dec-21	7.75	31.6	4.02	3.2	0.027
WQ5	16-Feb-21	7.72	36.3	3.94	<3.0	0.048
WQ5	25-May-21	7.08	12.4	11.4	7.2	0.166
WQ5	16-Jul-21	7.79	34	4.96	8.8	0.031
WQ5	11-Aug-21	7.86	36.8	4	<3.0	0.022
WQ5	23-Sep-21	7.58	30.4	7.01	<3.0	0.047
WQ5	17-May-11	7.07	23.6	22.1	7	0.253
WQ5	17-May-11	7.03	18.2	21.7	11	0.307
WQ5	31-May-11	6.91	13.1	16.5	5	0.217
WQ5	7-Jun-11	6.78	23.7	12.7	2	0.200
WQ5	14-Jun-11	6.9	12.5	11.6	4	0.187
WQ5	19-Jul-11	6.95	11	10.8	<2	0.155
WQ5	16-Aug-11	7.08	10.8	11.3	<2	0.075
WQ5	20-Sep-11	7.36	44.2	7.4	<2	0.034
WQ5	18-Oct-11	7.45	9.2	5.2	<2	0.058
WQ5	15-Nov-11	7.23	18.1	7.3	<2	0.060
WQ5	12-Dec-11	7.15	23.9	7.9	2	0.063
WQ5	14-May-12	7.38	28.9	8	7	0.201
WQ5	22-May-12	7.23	9.8	13.3	23	0.199
WQ5	29-May-12	7.04	9.5	12.5	9	0.196
WQ5	5-Jun-12	7.14	21	11.9	3	0.163
WQ5	12-Jun-12	7.07	32.7	11.6	<2	0.159
WQ5	19-Jun-12	6.96	8.8	10.7	<2	0.146
WQ5	17-Jul-12	7.27	10.6	10.5	<2	0.069
WQ5	14-Aug-12	7.46	28.1	7.4	<2	0.049
WQ5	18-Sep-12	7.56	31.5	6.9	<2	0.043
WQ5	15-Oct-12	7.56	17.2	12	<2	0.031
WQ5	13-Nov-12	7.02	14.2	8.1	<2	0.062
WQ5	13-Jan-13	7.56	9.6	8.7	<2	0.047
WQ5	15-Apr-13	7.38	11.4	6.9	4	0.149

Site	Date	pH	Hardness mg/L $CaCO_3$	Dissolved Organic Carbon mg/L	Total Suspended Solids mg/L	Dissolved Aluminum mg/L
WQ5	13-May-13	7.15	10.7	11	<2	0.240
WQ5	22-May-13	6.75	12.2	13.4	5	0.210
WQ5	27-May-13	6.95	26.5	12.8	2	0.249
WQ5	6-Jun-13	7.08	13	14	<2	0.218
WQ5	10-Jun-13	6.99	12.1	13.4	<2	0.174
WQ5	17-Jun-13	7.03	13.2	11.1	<2	0.194
WQ5	13-Apr-14	7.02	31.2	12.3	2	0.089
WQ5	2-Jul-14	7.09	12.4	9.6	<2	0.083
WQ5	24-Sep-14	7.16	34.5	8.4	<2	0.020
WQ5	8-Dec-14	7.66	23.7	5	<2	0.380
WQ5	10-Aug-16	7.23		5.3	<2	0.073
WQ5	16-Aug-16	7.54		8.87	<3.0	0.060
WQ5	16-Aug-16	7.51		7.43	<3.0	0.058
WQ5	23-Aug-16	7.24		7.49	<3.0	0.046
WQ5	31-Aug-16	7.44		6.57	<3.0	0.060
WQ5	31-Aug-16	7.36		8.06	<3.0	0.062
WQ5	7-Sep-16	7.37		8.11	<3.0	0.074
WQ5	10-May-17	7.27		11.4	<3.0	0.170
WQ5	19-Jul-17	7.3		15.2	8.5	0.043
WQ5	6-Sep-17	7.74		6.96	<3.0	0.054
WQ5	18-Oct-17	7.68		9.46	<3.0	0.096
WQ5	23-Feb-18	7.41		10.7	<3.0	0.032
WQ5	29-May-18	7.76		4.15	<3.0	0.101
WQ5	7-Aug-18	7.49		10.7	3.8	0.032
WQ5	29-Nov-18	7.79		7.6	<3.0	0.063
WQ5	12-Feb-19	7.51		8	<3.0	0.019
WQ5	13-May-19	7.71		3.17	<3.0	0.160
WQ5	12-Aug-19	7.19		12.7	8.2	0.124
WQ5	18-Nov-19	7.4		11.8	5.8	0.227
WQ5	12-Feb-20	7.18		13.5	<3.0	0.035
WQ5	14-May-20	7.7		3.72	3	0.165
WQ5	12-Aug-20	6.95		12.1	4.2	0.024
WQ5	17-Nov-20	7.76		4.68	<3.0	0.094

Notes: Gray highlighted cells represent exceedances to the long-term British Columbia (BC) water quality guideline (WQGs) [BC ENV] 2001) of 0.05 mg/L; Gray highlighted cells and red font represent exceedances to both BC long-term and short-term (0.1 mg/L) WQGs.

Appendix C: Minutes Meeting Held with ENV, April 15th, 2021

BW GOLD LTD
a subsidiary company of Artemis Gold Inc

BW GOLD LTD
a subsidiary company of Artemis Gold Inc

PROCESS FOR SUBMITTING DISSOLVED ALUMINUM SBEB

April 21, 2021

Participants

Affiliation	Names
BW Gold	Sachi De Souza
Lorax Environmental	Meghan Goertzen and Jorgelina Muscatello
MMO	Kristy Emery and Mohammad Vahedifar
Ministry of Environment and Climate Change Strategy (ENV)	Erin Rainey, Gabriele Matscha, Andrew Foster, Kristy Wade

Summary of Key Meeting Points

The purpose of the meeting was to understand ENV's requirements for documentation of the proposed dissolved aluminum science based environmental benchmark (SBEB).

Kristy (MMO) set the context for the meeting by explaining that recent discussions between BW Gold and ENV clarified that BW Gold would be seeking an effluent discharge permit for the operations phase of the Blackwater Project (and an effluent discharge permit for the closure and post-closure phases later).

BW Gold/Sachi explained that during the operations phase, BW Gold expects dissolved aluminum concentrations to exceed BC water quality guidelines based on the elevated baseline dissolved aluminum concentrations. BW Gold intends to apply for an SBEB for dissolved aluminum and derive the SBEB using the background method. Meghan explained that BW Gold wanted clarity on which items from the SBEB checklist would be required for a dissolved aluminum SBEB derived using the background approach. Specifically, if the development plan needed to include:

- Documentation of BAT and best management practices, and any that were rejected.
- Comprehensive site characterization.
- Effluent characterization and receiving water model projections.

From the discussion, specific to the dissolved aluminum SBEB based on the background approach, ENV advised BW Gold that:

- The BAT and BMP was not required for the aluminum SBEB;
- Site characterization should be described to demonstrate how other factors could affect aluminum toxicity; and
- Effluent characterization would not be critical since it is based on the background approach.

ENV's guidance to BW Gold for the aluminum SBEB, or any other SBEB based on the background approach was to:

- Provide the SBEB checklists (Appendices A and B) to ENV in advance of submitting the SBEB development plan and proposed SBEB so that ENV can understand the proposed approach; and

- Provide both the development plan and proposed SBEB with the joint application submission.

ENV's guidance to BW Gold for any SBEB not based on the background approach was to:

- Provide all information listed in the SBEB checklists;
- Review the checklists with ENV; and
- Provide development plans at least one month prior to application review. (If the application screening lasts one month, this would mean the latest BW Gold should provide the development plan would be when the application is submitted for screening).

BW Gold asked for clarification on ENV's best achievable technology (BAT) requirements for the JAR given the BW Gold is applying for an effluent discharge permit for the operations phase. BW Gold wanted to understand if the BAT assessment and the effects assessment presented in the JAR would only be for the operations phase. Erin explained that from ENV's perspective, the BAT and effects assessment would only be for the operations phase. ENV would not scrutinize closure or post-closure treatment relative to the BAT guidance. Sachi asked if EMLI also reviews the BAT or relies on it for its review. Kristy suggested that MMO follow up with EMLI to confirm the BAT would apply to the operations phase of the project.

Summary of Actions

Action item	Party	Date
1. BW Gold to provide SBEB checklists for dissolved aluminum based on the background approach to ENV	BW Gold	Completed – April 29
2. ENV review checklist and confirm requirements for the aluminum SBEB	ENV	Completed – May 4
3. MMO to follow up with EMLI to confirm the BAT would apply to the operations phase of the project for its needs as well.	MMO	

Appendix D: Water Quality Predictions for Dissolved Aluminum

BW GOLD LTD

a subsidiary company of Artemis Gold Inc

Date	WQ28	WQ27	WQ26	WQ7	WQ5	WQCK661
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Output Percentile	95	95	95	95	95	95
01-01-2007	0.020	0.020	0.019	0.017	0.047	0.047
01-02-2007	0.015	0.015	0.014	0.012	0.032	0.032
01-03-2007	0.010	0.0097	0.009	0.009	0.075	0.075
01-04-2007	0.017	0.017	0.017	0.017	0.119	0.119
01-05-2007	0.205	0.199	0.181	0.180	0.170	0.170
01-06-2007	0.144	0.138	0.126	0.124	0.193	0.193
01-07-2007	0.053	0.053	0.052	0.051	0.076	0.076
01-08-2007	0.049	0.049	0.048	0.046	0.054	0.054
01-09-2007	0.018	0.018	0.018	0.018	0.043	0.043
01-10-2007	0.043	0.047	0.047	0.042	0.058	0.058
01-11-2007	0.064	0.064	0.063	0.060	0.062	0.062
01-12-2007	0.033	0.033	0.032	0.030	0.221	0.221
01-01-2008	0.020	0.020	0.019	0.017	0.047	0.047
01-02-2008	0.015	0.015	0.014	0.012	0.032	0.032
01-03-2008	0.010	0.010	0.009	0.009	0.075	0.075
01-04-2008	0.017	0.017	0.017	0.017	0.119	0.119
01-05-2008	0.206	0.199	0.181	0.180	0.170	0.170
01-06-2008	0.144	0.138	0.126	0.125	0.193	0.193
01-07-2008	0.053	0.053	0.051	0.050	0.076	0.076
01-08-2008	0.049	0.049	0.047	0.046	0.054	0.054
01-09-2008	0.018	0.018	0.018	0.018	0.043	0.043
01-10-2008	0.043	0.045	0.045	0.042	0.058	0.058
01-11-2008	0.064	0.064	0.063	0.060	0.062	0.062
01-12-2008	0.033	0.033	0.032	0.030	0.221	0.221
01-01-2009	0.020	0.020	0.019	0.017	0.047	0.047
01-02-2009	0.015	0.015	0.014	0.012	0.032	0.032
01-03-2009	0.010	0.010	0.009	0.009	0.075	0.075
01-04-2009	0.017	0.017	0.017	0.017	0.119	0.119
01-05-2009	0.206	0.199	0.181	0.180	0.170	0.170
01-06-2009	0.144	0.138	0.126	0.125	0.193	0.193
01-07-2009	0.053	0.053	0.051	0.050	0.076	0.076
01-08-2009	0.049	0.049	0.047	0.046	0.054	0.054
01-09-2009	0.018	0.018	0.018	0.018	0.043	0.043
01-10-2009	0.043	0.045	0.045	0.042	0.058	0.058
01-11-2009	0.064	0.064	0.063	0.060	0.062	0.062
01-12-2009	0.033	0.033	0.032	0.030	0.221	0.221
01-01-2010	0.020	0.020	0.019	0.017	0.047	0.047
01-02-2010	0.015	0.015	0.014	0.012	0.032	0.032
01-03-2010	0.010	0.010	0.009	0.009	0.075	0.075
01-04-2010	0.017	0.017	0.017	0.017	0.119	0.119
01-05-2010	0.206	0.199	0.181	0.180	0.170	0.170
01-06-2010	0.144	0.138	0.126	0.125	0.193	0.193
01-07-2010	0.053	0.053	0.051	0.050	0.076	0.076
01-08-2010	0.049	0.049	0.047	0.045	0.054	0.054
01-09-2010	0.018	0.018	0.018	0.018	0.043	0.043
01-10-2010	0.043	0.045	0.045	0.042	0.058	0.058
01-11-2010	0.064	0.064	0.063	0.060	0.062	0.062
01-12-2010	0.033	0.033	0.032	0.030	0.221	0.221
01-01-2011	0.020	0.020	0.019	0.017	0.047	0.047
01-02-2011	0.015	0.015	0.014	0.012	0.032	0.032
01-03-2011	0.010	0.010	0.009	0.009	0.075	0.075
01-04-2011	0.017	0.017	0.017	0.017	0.119	0.119
01-05-2011	0.206	0.199	0.181	0.180	0.170	0.170
01-06-2011	0.144	0.138	0.126	0.125	0.193	0.193
01-07-2011	0.053	0.053	0.051	0.050	0.076	0.076
01-08-2011	0.049	0.049	0.047	0.045	0.054	0.054
01-09-2011	0.018	0.018	0.018	0.018	0.043	0.043
01-10-2011	0.043	0.045	0.045	0.042	0.058	0.058

Date	WQ28	WQ27	WQ26	WQ7	WQ5	WQCK661
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Output Percentile	95	95	95	95	95	95
01-11-2011	0.064	0.064	0.063	0.060	0.062	0.062
01-12-2011	0.033	0.033	0.032	0.030	0.221	0.221
01-01-2012	0.020	0.020	0.019	0.017	0.047	0.047
01-02-2012	0.015	0.015	0.014	0.012	0.032	0.032
01-03-2012	0.010	0.010	0.009	0.009	0.075	0.075
01-04-2012	0.017	0.017	0.017	0.017	0.119	0.119
01-05-2012	0.206	0.199	0.181	0.180	0.170	0.170
01-06-2012	0.144	0.138	0.126	0.125	0.193	0.193
01-07-2012	0.053	0.053	0.051	0.050	0.076	0.076
01-08-2012	0.049	0.049	0.047	0.045	0.054	0.054
01-09-2012	0.018	0.018	0.018	0.018	0.043	0.043
01-10-2012	0.043	0.045	0.045	0.042	0.058	0.058
01-11-2012	0.064	0.064	0.063	0.060	0.062	0.062
01-12-2012	0.033	0.033	0.032	0.030	0.221	0.221
01-01-2013	0.020	0.020	0.019	0.017	0.047	0.047
01-02-2013	0.015	0.015	0.014	0.012	0.032	0.032
01-03-2013	0.010	0.010	0.009	0.009	0.075	0.075
01-04-2013	0.017	0.017	0.017	0.017	0.119	0.119
01-05-2013	0.206	0.199	0.181	0.180	0.170	0.170
01-06-2013	0.144	0.138	0.126	0.125	0.193	0.193
01-07-2013	0.053	0.053	0.051	0.050	0.076	0.076
01-08-2013	0.049	0.049	0.047	0.045	0.054	0.054
01-09-2013	0.018	0.018	0.018	0.018	0.043	0.043
01-10-2013	0.043	0.045	0.045	0.042	0.058	0.058
01-11-2013	0.064	0.064	0.063	0.060	0.062	0.062
01-12-2013	0.033	0.033	0.032	0.030	0.221	0.221
01-01-2014	0.020	0.020	0.019	0.017	0.047	0.047
01-02-2014	0.015	0.015	0.014	0.012	0.032	0.032
01-03-2014	0.010	0.010	0.009	0.009	0.075	0.075
01-04-2014	0.017	0.017	0.017	0.017	0.119	0.119
01-05-2014	0.206	0.199	0.181	0.180	0.170	0.170
01-06-2014	0.144	0.138	0.126	0.125	0.193	0.193
01-07-2014	0.053	0.053	0.051	0.050	0.076	0.076
01-08-2014	0.049	0.049	0.047	0.045	0.054	0.054
01-09-2014	0.018	0.018	0.018	0.018	0.043	0.043
01-10-2014	0.043	0.045	0.045	0.042	0.058	0.058
01-11-2014	0.064	0.064	0.063	0.060	0.062	0.062
01-12-2014	0.033	0.033	0.032	0.030	0.221	0.221
01-01-2015	0.020	0.020	0.019	0.017	0.047	0.047
01-02-2015	0.015	0.015	0.014	0.012	0.032	0.032
01-03-2015	0.010	0.010	0.009	0.009	0.075	0.075
01-04-2015	0.017	0.017	0.017	0.017	0.119	0.119
01-05-2015	0.206	0.199	0.181	0.180	0.170	0.170
01-06-2015	0.144	0.138	0.126	0.125	0.193	0.193
01-07-2015	0.053	0.053	0.051	0.050	0.076	0.076
01-08-2015	0.049	0.049	0.047	0.045	0.054	0.054
01-09-2015	0.018	0.018	0.018	0.018	0.043	0.043
01-10-2015	0.043	0.045	0.045	0.042	0.058	0.058
01-11-2015	0.064	0.064	0.063	0.060	0.062	0.062
01-12-2015	0.033	0.033	0.032	0.030	0.221	0.221
01-01-2016	0.020	0.020	0.019	0.017	0.047	0.047
01-02-2016	0.015	0.015	0.014	0.012	0.032	0.032
01-03-2016	0.010	0.010	0.009	0.009	0.075	0.075
01-04-2016	0.017	0.017	0.017	0.017	0.119	0.119
01-05-2016	0.206	0.199	0.181	0.180	0.170	0.170
01-06-2016	0.144	0.138	0.126	0.125	0.193	0.193
01-07-2016	0.053	0.053	0.051	0.050	0.076	0.076
01-08-2016	0.049	0.049	0.047	0.045	0.054	0.054

Date	WQ28	WQ27	WQ26	WQ7	WQ5	WQCK661
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Output Percentile	95	95	95	95	95	95
01-09-2016	0.018	0.018	0.018	0.018	0.043	0.043
01-10-2016	0.043	0.045	0.045	0.042	0.058	0.058
01-11-2016	0.064	0.064	0.063	0.060	0.062	0.062
01-12-2016	0.033	0.033	0.032	0.030	0.221	0.221
01-01-2017	0.020	0.020	0.019	0.017	0.047	0.047
01-02-2017	0.015	0.015	0.014	0.012	0.032	0.032
01-03-2017	0.010	0.010	0.009	0.009	0.075	0.075
01-04-2017	0.017	0.017	0.017	0.017	0.119	0.119
01-05-2017	0.206	0.199	0.181	0.180	0.170	0.170
01-06-2017	0.144	0.138	0.126	0.125	0.193	0.193
01-07-2017	0.053	0.053	0.051	0.050	0.076	0.076
01-08-2017	0.049	0.049	0.047	0.045	0.054	0.054
01-09-2017	0.018	0.018	0.018	0.018	0.043	0.043
01-10-2017	0.043	0.045	0.045	0.042	0.058	0.058
01-11-2017	0.064	0.064	0.063	0.060	0.062	0.062
01-12-2017	0.033	0.033	0.032	0.030	0.221	0.221
01-01-2018	0.020	0.020	0.019	0.017	0.047	0.047
01-02-2018	0.015	0.015	0.014	0.012	0.032	0.032
01-03-2018	0.010	0.010	0.009	0.009	0.075	0.075
01-04-2018	0.017	0.017	0.017	0.017	0.119	0.119
01-05-2018	0.206	0.199	0.181	0.180	0.170	0.170
01-06-2018	0.144	0.138	0.126	0.125	0.193	0.193
01-07-2018	0.053	0.053	0.051	0.050	0.076	0.076
01-08-2018	0.049	0.049	0.047	0.045	0.054	0.054
01-09-2018	0.018	0.018	0.018	0.018	0.043	0.043
01-10-2018	0.043	0.045	0.045	0.042	0.058	0.058
01-11-2018	0.064	0.064	0.063	0.060	0.062	0.062
01-12-2018	0.033	0.033	0.032	0.030	0.221	0.221
01-01-2019	0.020	0.020	0.019	0.017	0.047	0.047
01-02-2019	0.015	0.015	0.014	0.012	0.032	0.032
01-03-2019	0.010	0.010	0.009	0.009	0.075	0.075
01-04-2019	0.017	0.017	0.017	0.017	0.119	0.119
01-05-2019	0.206	0.199	0.181	0.180	0.170	0.170
01-06-2019	0.144	0.138	0.126	0.125	0.193	0.193
01-07-2019	0.053	0.053	0.051	0.050	0.076	0.076
01-08-2019	0.049	0.049	0.047	0.045	0.054	0.054
01-09-2019	0.018	0.018	0.018	0.018	0.043	0.043
01-10-2019	0.043	0.045	0.045	0.042	0.058	0.058
01-11-2019	0.064	0.064	0.063	0.060	0.062	0.062
01-12-2019	0.033	0.033	0.032	0.030	0.221	0.221
01-01-2020	0.020	0.020	0.019	0.017	0.047	0.047
01-02-2020	0.015	0.015	0.014	0.012	0.032	0.032
01-03-2020	0.010	0.010	0.009	0.009	0.075	0.075
01-04-2020	0.017	0.017	0.017	0.017	0.119	0.119
01-05-2020	0.206	0.199	0.181	0.180	0.170	0.170
01-06-2020	0.144	0.138	0.126	0.125	0.193	0.193
01-07-2020	0.053	0.053	0.051	0.050	0.076	0.076
01-08-2020	0.049	0.049	0.047	0.045	0.054	0.054
01-09-2020	0.018	0.018	0.018	0.018	0.043	0.043
01-10-2020	0.043	0.045	0.045	0.042	0.058	0.058
01-11-2020	0.064	0.064	0.063	0.060	0.062	0.062
01-12-2020	0.033	0.033	0.032	0.030	0.221	0.221
01-01-2021	0.020	0.020	0.019	0.017	0.047	0.047
01-02-2021	0.015	0.015	0.014	0.012	0.032	0.032
01-03-2021	0.010	0.010	0.009	0.009	0.075	0.075
01-04-2021	0.017	0.017	0.017	0.017	0.119	0.119
01-05-2021	0.206	0.199	0.181	0.180	0.170	0.170
01-06-2021	0.144	0.138	0.126	0.125	0.193	0.193

Date	WQ28	WQ27	WQ26	WQ7	WQ5	WQCK661
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Output Percentile	95	95	95	95	95	95
01-07-2021	0.053	0.053	0.051	0.050	0.076	0.076
01-08-2021	0.049	0.049	0.047	0.045	0.054	0.054
01-09-2021	0.018	0.018	0.018	0.018	0.043	0.043
01-10-2021	0.043	0.045	0.045	0.042	0.058	0.058
01-11-2021	0.064	0.064	0.063	0.060	0.062	0.062
01-12-2021	0.033	0.033	0.032	0.030	0.221	0.221
01-01-2022	0.020	0.020	0.019	0.017	0.047	0.047
01-02-2022	0.015	0.015	0.014	0.012	0.032	0.032
01-03-2022	0.010	0.010	0.009	0.009	0.075	0.075
01-04-2022	0.017	0.017	0.017	0.017	0.119	0.119
01-05-2022	0.206	0.199	0.181	0.180	0.170	0.170
01-06-2022	0.144	0.138	0.126	0.125	0.193	0.193
01-07-2022	0.053	0.053	0.051	0.050	0.075	0.076
01-08-2022	0.049	0.049	0.047	0.045	0.054	0.054
01-09-2022	0.018	0.018	0.018	0.018	0.043	0.043
01-10-2022	0.043	0.045	0.045	0.042	0.058	0.058
01-11-2022	0.064	0.064	0.063	0.059	0.062	0.062
01-12-2022	0.033	0.033	0.032	0.029	0.219	0.221
01-01-2023	0.022	0.022	0.020	0.017	0.047	0.047
01-02-2023	0.022	0.021	0.014	0.012	0.032	0.032
01-03-2023	0.021	0.018	0.011	0.009	0.075	0.075
01-04-2023	0.022	0.021	0.019	0.017	0.118	0.119
01-05-2023	0.130	0.130	0.132	0.133	0.169	0.169
01-06-2023	0.144	0.138	0.126	0.125	0.192	0.193
01-07-2023	0.101	0.098	0.077	0.071	0.075	0.076
01-08-2023	0.078	0.075	0.068	0.060	0.054	0.054
01-09-2023	0.053	0.051	0.035	0.023	0.043	0.043
01-10-2023	0.056	0.058	0.056	0.050	0.058	0.058
01-11-2023	0.050	0.051	0.051	0.047	0.062	0.062
01-12-2023	0.051	0.049	0.044	0.038	0.219	0.221
01-01-2024	0.039	0.037	0.026	0.017	0.047	0.047
01-02-2024	0.026	0.024	0.014	0.012	0.032	0.032
01-03-2024	0.021	0.018	0.011	0.009	0.075	0.075
01-04-2024	0.022	0.022	0.021	0.021	0.118	0.119
01-05-2024	0.028	0.031	0.041	0.054	0.169	0.170
01-06-2024	0.144	0.138	0.126	0.124	0.192	0.193
01-07-2024	0.101	0.099	0.077	0.073	0.076	0.076
01-08-2024	0.102	0.098	0.068	0.062	0.054	0.054
01-09-2024	0.053	0.051	0.035	0.023	0.043	0.043
01-10-2024	0.093	0.088	0.073	0.054	0.058	0.058
01-11-2024	0.077	0.076	0.071	0.065	0.062	0.062
01-12-2024	0.070	0.064	0.047	0.038	0.219	0.221
01-01-2025	0.039	0.037	0.026	0.017	0.046	0.047
01-02-2025	0.026	0.024	0.014	0.012	0.032	0.032
01-03-2025	0.021	0.018	0.011	0.009	0.075	0.075
01-04-2025	0.022	0.022	0.021	0.021	0.118	0.119
01-05-2025	0.046	0.047	0.052	0.062	0.169	0.170
01-06-2025	0.144	0.138	0.126	0.124	0.192	0.193
01-07-2025	0.101	0.099	0.077	0.073	0.076	0.076
01-08-2025	0.102	0.098	0.068	0.062	0.054	0.054
01-09-2025	0.053	0.051	0.035	0.023	0.043	0.043
01-10-2025	0.085	0.085	0.073	0.054	0.058	0.058
01-11-2025	0.075	0.074	0.069	0.064	0.062	0.062
01-12-2025	0.070	0.064	0.047	0.038	0.219	0.221
01-01-2026	0.039	0.037	0.026	0.017	0.046	0.047
01-02-2026	0.026	0.024	0.014	0.012	0.032	0.032
01-03-2026	0.021	0.018	0.011	0.009	0.075	0.075
01-04-2026	0.022	0.022	0.021	0.021	0.118	0.119

Date	WQ28	WQ27	WQ26	WQ7	WQ5	WQCK661
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Output Percentile	95	95	95	95	95	95
01-05-2026	0.040	0.041	0.048	0.061	0.169	0.170
01-06-2026	0.142	0.138	0.126	0.124	0.192	0.193
01-07-2026	0.101	0.099	0.077	0.073	0.076	0.076
01-08-2026	0.102	0.098	0.068	0.063	0.054	0.054
01-09-2026	0.053	0.051	0.035	0.023	0.043	0.043
01-10-2026	0.083	0.083	0.073	0.054	0.058	0.058
01-11-2026	0.074	0.073	0.069	0.063	0.062	0.062
01-12-2026	0.070	0.064	0.047	0.038	0.219	0.221
01-01-2027	0.039	0.037	0.026	0.017	0.046	0.047
01-02-2027	0.026	0.024	0.014	0.012	0.032	0.032
01-03-2027	0.021	0.018	0.011	0.009	0.075	0.075
01-04-2027	0.022	0.022	0.021	0.021	0.118	0.119
01-05-2027	0.036	0.037	0.044	0.056	0.169	0.170
01-06-2027	0.142	0.138	0.126	0.125	0.192	0.193
01-07-2027	0.101	0.099	0.077	0.073	0.076	0.076
01-08-2027	0.102	0.098	0.068	0.063	0.054	0.054
01-09-2027	0.053	0.051	0.035	0.023	0.043	0.043
01-10-2027	0.075	0.076	0.071	0.054	0.058	0.058
01-11-2027	0.060	0.060	0.058	0.054	0.062	0.062
01-12-2027	0.056	0.053	0.047	0.038	0.219	0.221
01-01-2028	0.039	0.037	0.026	0.017	0.046	0.047
01-02-2028	0.026	0.024	0.014	0.012	0.032	0.032
01-03-2028	0.021	0.018	0.011	0.009	0.075	0.075
01-04-2028	0.022	0.022	0.021	0.021	0.118	0.119
01-05-2028	0.037	0.038	0.045	0.056	0.169	0.170
01-06-2028	0.142	0.138	0.126	0.124	0.192	0.193
01-07-2028	0.101	0.098	0.077	0.072	0.076	0.076
01-08-2028	0.102	0.097	0.068	0.062	0.054	0.054
01-09-2028	0.053	0.051	0.035	0.023	0.043	0.043
01-10-2028	0.093	0.088	0.073	0.054	0.058	0.058
01-11-2028	0.083	0.082	0.076	0.069	0.062	0.062
01-12-2028	0.070	0.064	0.047	0.038	0.219	0.221
01-01-2029	0.039	0.037	0.026	0.017	0.046	0.047
01-02-2029	0.026	0.024	0.014	0.012	0.032	0.032
01-03-2029	0.021	0.018	0.011	0.009	0.075	0.075
01-04-2029	0.022	0.022	0.021	0.021	0.118	0.119
01-05-2029	0.039	0.040	0.047	0.060	0.169	0.170
01-06-2029	0.144	0.138	0.126	0.124	0.192	0.193
01-07-2029	0.101	0.098	0.077	0.071	0.076	0.076
01-08-2029	0.102	0.097	0.068	0.061	0.054	0.054
01-09-2029	0.053	0.050	0.035	0.023	0.043	0.043
01-10-2029	0.093	0.088	0.073	0.054	0.058	0.058
01-11-2029	0.110	0.106	0.078	0.071	0.062	0.062
01-12-2029	0.070	0.064	0.047	0.038	0.219	0.221
01-01-2030	0.039	0.037	0.026	0.017	0.046	0.047
01-02-2030	0.026	0.024	0.014	0.012	0.032	0.032
01-03-2030	0.021	0.018	0.011	0.009	0.075	0.075
01-04-2030	0.022	0.021	0.021	0.020	0.118	0.119
01-05-2030	0.033	0.036	0.046	0.062	0.169	0.170
01-06-2030	0.114	0.114	0.113	0.112	0.192	0.193
01-07-2030	0.101	0.098	0.077	0.070	0.076	0.076
01-08-2030	0.102	0.097	0.068	0.062	0.054	0.054
01-09-2030	0.053	0.051	0.035	0.023	0.043	0.043
01-10-2030	0.093	0.088	0.073	0.054	0.058	0.058
01-11-2030	0.088	0.087	0.078	0.070	0.062	0.062
01-12-2030	0.070	0.064	0.047	0.038	0.219	0.221
01-01-2031	0.039	0.037	0.026	0.017	0.046	0.047
01-02-2031	0.026	0.024	0.014	0.012	0.032	0.032

Date	WQ28	WQ27	WQ26	WQ7	WQ5	WQCK661
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Output Percentile	95	95	95	95	95	95
01-03-2031	0.021	0.018	0.011	0.009	0.075	0.075
01-04-2031	0.022	0.021	0.021	0.020	0.118	0.119
01-05-2031	0.032	0.034	0.044	0.057	0.169	0.170
01-06-2031	0.100	0.100	0.100	0.100	0.192	0.193
01-07-2031	0.101	0.099	0.077	0.070	0.076	0.076
01-08-2031	0.102	0.098	0.068	0.062	0.054	0.054
01-09-2031	0.053	0.052	0.035	0.023	0.043	0.043
01-10-2031	0.093	0.088	0.073	0.054	0.058	0.058
01-11-2031	0.081	0.081	0.074	0.066	0.062	0.062
01-12-2031	0.070	0.064	0.047	0.038	0.219	0.221
01-01-2032	0.039	0.037	0.026	0.017	0.046	0.047
01-02-2032	0.026	0.024	0.014	0.012	0.032	0.032
01-03-2032	0.021	0.018	0.011	0.009	0.075	0.075
01-04-2032	0.022	0.022	0.021	0.020	0.118	0.119
01-05-2032	0.032	0.032	0.043	0.055	0.169	0.170
01-06-2032	0.098	0.098	0.098	0.098	0.192	0.193
01-07-2032	0.101	0.099	0.077	0.070	0.075	0.076
01-08-2032	0.102	0.098	0.068	0.061	0.054	0.054
01-09-2032	0.053	0.053	0.035	0.023	0.043	0.043
01-10-2032	0.093	0.088	0.073	0.054	0.058	0.058
01-11-2032	0.078	0.078	0.072	0.064	0.062	0.062
01-12-2032	0.070	0.064	0.047	0.038	0.219	0.221
01-01-2033	0.039	0.037	0.026	0.017	0.046	0.047
01-02-2033	0.026	0.024	0.014	0.012	0.032	0.032
01-03-2033	0.021	0.018	0.011	0.009	0.075	0.075
01-04-2033	0.022	0.022	0.021	0.020	0.118	0.119
01-05-2033	0.079	0.079	0.084	0.091	0.169	0.170
01-06-2033	0.085	0.085	0.086	0.088	0.192	0.193
01-07-2033	0.101	0.099	0.077	0.070	0.075	0.076
01-08-2033	0.102	0.098	0.068	0.061	0.054	0.054
01-09-2033	0.053	0.053	0.035	0.023	0.043	0.043
01-10-2033	0.057	0.057	0.055	0.049	0.058	0.058
01-11-2033	0.048	0.048	0.048	0.045	0.062	0.062
01-12-2033	0.045	0.045	0.039	0.034	0.219	0.221
01-01-2034	0.039	0.037	0.026	0.017	0.046	0.047
01-02-2034	0.026	0.024	0.014	0.012	0.032	0.032
01-03-2034	0.021	0.018	0.011	0.009	0.075	0.075
01-04-2034	0.022	0.022	0.021	0.020	0.118	0.119
01-05-2034	0.099	0.099	0.103	0.108	0.169	0.170
01-06-2034	0.094	0.094	0.095	0.095	0.192	0.193
01-07-2034	0.101	0.099	0.077	0.070	0.075	0.076
01-08-2034	0.102	0.098	0.068	0.061	0.054	0.054
01-09-2034	0.053	0.053	0.035	0.023	0.043	0.043
01-10-2034	0.064	0.064	0.060	0.054	0.058	0.058
01-11-2034	0.053	0.053	0.052	0.048	0.062	0.062
01-12-2034	0.050	0.050	0.044	0.038	0.219	0.221
01-01-2035	0.039	0.037	0.026	0.017	0.046	0.047
01-02-2035	0.026	0.024	0.014	0.012	0.031	0.032
01-03-2035	0.021	0.018	0.011	0.009	0.074	0.075
01-04-2035	0.022	0.022	0.021	0.020	0.118	0.119
01-05-2035	0.086	0.086	0.091	0.097	0.169	0.170
01-06-2035	0.092	0.092	0.093	0.094	0.192	0.193
01-07-2035	0.101	0.099	0.077	0.070	0.075	0.076
01-08-2035	0.102	0.098	0.068	0.061	0.054	0.054
01-09-2035	0.053	0.053	0.035	0.023	0.043	0.043
01-10-2035	0.078	0.078	0.070	0.054	0.058	0.058
01-11-2035	0.058	0.058	0.056	0.051	0.062	0.062
01-12-2035	0.050	0.050	0.043	0.037	0.218	0.221

Date	WQ28	WQ27	WQ26	WQ7	WQ5	WQCK661
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Output Percentile	95	95	95	95	95	95
01-01-2036	0.039	0.037	0.026	0.017	0.046	0.047
01-02-2036	0.026	0.024	0.014	0.012	0.031	0.032
01-03-2036	0.021	0.018	0.011	0.009	0.074	0.075
01-04-2036	0.022	0.022	0.021	0.020	0.118	0.119
01-05-2036	0.085	0.085	0.089	0.096	0.169	0.170
01-06-2036	0.093	0.093	0.093	0.094	0.192	0.193
01-07-2036	0.101	0.099	0.077	0.070	0.075	0.076
01-08-2036	0.102	0.098	0.068	0.061	0.054	0.054
01-09-2036	0.053	0.053	0.035	0.023	0.042	0.043
01-10-2036	0.078	0.078	0.073	0.054	0.058	0.058
01-11-2036	0.056	0.056	0.054	0.050	0.062	0.062
01-12-2036	0.049	0.049	0.043	0.037	0.218	0.221
01-01-2037	0.039	0.037	0.026	0.017	0.046	0.047
01-02-2037	0.026	0.024	0.014	0.012	0.031	0.032
01-03-2037	0.021	0.018	0.011	0.009	0.074	0.075
01-04-2037	0.022	0.022	0.021	0.020	0.118	0.119
01-05-2037	0.084	0.084	0.089	0.096	0.169	0.170
01-06-2037	0.093	0.093	0.094	0.095	0.192	0.193
01-07-2037	0.101	0.099	0.077	0.070	0.075	0.076
01-08-2037	0.102	0.098	0.068	0.061	0.054	0.054
01-09-2037	0.053	0.053	0.035	0.023	0.042	0.043
01-10-2037	0.074	0.074	0.067	0.054	0.058	0.058
01-11-2037	0.054	0.054	0.052	0.048	0.062	0.062
01-12-2037	0.049	0.048	0.043	0.037	0.218	0.221
01-01-2038	0.039	0.037	0.026	0.017	0.046	0.047
01-02-2038	0.026	0.024	0.014	0.012	0.031	0.032
01-03-2038	0.021	0.018	0.011	0.009	0.074	0.075
01-04-2038	0.022	0.022	0.021	0.020	0.118	0.119
01-05-2038	0.084	0.084	0.089	0.096	0.169	0.170
01-06-2038	0.093	0.093	0.094	0.095	0.192	0.193
01-07-2038	0.101	0.099	0.077	0.070	0.075	0.076
01-08-2038	0.102	0.098	0.068	0.061	0.054	0.054
01-09-2038	0.053	0.053	0.035	0.023	0.042	0.043
01-10-2038	0.074	0.074	0.067	0.054	0.058	0.058
01-11-2038	0.054	0.054	0.053	0.048	0.062	0.062
01-12-2038	0.049	0.049	0.043	0.037	0.218	0.221
01-01-2039	0.039	0.037	0.026	0.017	0.046	0.047
01-02-2039	0.026	0.024	0.014	0.012	0.031	0.032
01-03-2039	0.021	0.018	0.011	0.009	0.074	0.075
01-04-2039	0.022	0.022	0.021	0.020	0.118	0.119
01-05-2039	0.085	0.085	0.090	0.097	0.169	0.170
01-06-2039	0.094	0.094	0.094	0.095	0.192	0.193
01-07-2039	0.101	0.099	0.077	0.070	0.075	0.076
01-08-2039	0.102	0.098	0.068	0.061	0.054	0.054
01-09-2039	0.053	0.053	0.035	0.023	0.042	0.043
01-10-2039	0.075	0.075	0.068	0.054	0.058	0.058
01-11-2039	0.055	0.055	0.053	0.049	0.062	0.062
01-12-2039	0.050	0.050	0.044	0.038	0.218	0.221
01-01-2040	0.039	0.037	0.026	0.017	0.046	0.047
01-02-2040	0.026	0.024	0.014	0.012	0.031	0.032
01-03-2040	0.021	0.018	0.011	0.009	0.074	0.075
01-04-2040	0.022	0.022	0.021	0.020	0.118	0.119
01-05-2040	0.085	0.085	0.090	0.097	0.169	0.170
01-06-2040	0.094	0.094	0.094	0.095	0.192	0.193
01-07-2040	0.101	0.099	0.077	0.070	0.075	0.076
01-08-2040	0.102	0.098	0.068	0.061	0.054	0.054
01-09-2040	0.053	0.053	0.035	0.023	0.042	0.043
01-10-2040	0.069	0.069	0.063	0.054	0.058	0.058

Date	WQ28	WQ27	WQ26	WQ7	WQ5	WQCK661
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Output Percentile	95	95	95	95	95	95
01-11-2040	0.055	0.055	0.053	0.049	0.062	0.062
01-12-2040	0.050	0.050	0.044	0.038	0.218	0.221
01-01-2041	0.039	0.037	0.026	0.017	0.046	0.047
01-02-2041	0.026	0.024	0.014	0.012	0.031	0.032
01-03-2041	0.021	0.018	0.011	0.009	0.074	0.075
01-04-2041	0.022	0.021	0.020	0.018	0.118	0.119
01-05-2041	0.119	0.119	0.123	0.127	0.169	0.170
01-06-2041	0.144	0.138	0.126	0.124	0.192	0.193
01-07-2041	0.101	0.099	0.077	0.070	0.075	0.076
01-08-2041	0.102	0.098	0.068	0.061	0.054	0.054
01-09-2041	0.053	0.053	0.035	0.023	0.042	0.043
01-10-2041	0.042	0.042	0.042	0.036	0.058	0.058
01-11-2041	0.046	0.046	0.047	0.042	0.062	0.062
01-12-2041	0.051	0.051	0.044	0.036	0.218	0.221
01-01-2042	0.039	0.037	0.026	0.017	0.046	0.047
01-02-2042	0.026	0.024	0.014	0.012	0.031	0.032
01-03-2042	0.021	0.018	0.011	0.009	0.074	0.075
01-04-2042	0.022	0.022	0.020	0.019	0.118	0.119
01-05-2042	0.118	0.118	0.120	0.125	0.169	0.170
01-06-2042	0.144	0.138	0.126	0.124	0.192	0.193
01-07-2042	0.101	0.099	0.077	0.070	0.075	0.076
01-08-2042	0.102	0.098	0.068	0.060	0.054	0.054
01-09-2042	0.053	0.052	0.035	0.023	0.042	0.043
01-10-2042	0.039	0.039	0.041	0.035	0.058	0.058
01-11-2042	0.047	0.047	0.048	0.043	0.062	0.062
01-12-2042	0.050	0.050	0.043	0.036	0.218	0.221
01-01-2043	0.039	0.037	0.026	0.017	0.046	0.047
01-02-2043	0.026	0.024	0.014	0.012	0.031	0.032
01-03-2043	0.021	0.018	0.011	0.009	0.074	0.075
01-04-2043	0.022	0.022	0.020	0.019	0.118	0.119
01-05-2043	0.118	0.118	0.121	0.125	0.169	0.170
01-06-2043	0.144	0.138	0.126	0.124	0.192	0.193
01-07-2043	0.101	0.099	0.077	0.070	0.075	0.076
01-08-2043	0.102	0.098	0.068	0.060	0.054	0.054
01-09-2043	0.053	0.053	0.035	0.023	0.042	0.043
01-10-2043	0.040	0.040	0.041	0.035	0.058	0.058
01-11-2043	0.047	0.047	0.048	0.043	0.062	0.062
01-12-2043	0.052	0.051	0.044	0.038	0.218	0.221
01-01-2044	0.039	0.037	0.026	0.017	0.046	0.047
01-02-2044	0.026	0.024	0.014	0.012	0.031	0.032
01-03-2044	0.021	0.018	0.011	0.009	0.074	0.075
01-04-2044	0.022	0.022	0.020	0.019	0.118	0.119
01-05-2044	0.118	0.118	0.121	0.125	0.169	0.170
01-06-2044	0.144	0.138	0.126	0.124	0.192	0.193
01-07-2044	0.101	0.099	0.077	0.070	0.075	0.076
01-08-2044	0.102	0.098	0.068	0.060	0.054	0.054
01-09-2044	0.053	0.053	0.035	0.023	0.042	0.043
01-10-2044	0.040	0.040	0.041	0.036	0.058	0.058
01-11-2044	0.047	0.047	0.048	0.043	0.062	0.062
01-12-2044	0.052	0.052	0.044	0.037	0.218	0.221
01-01-2045	0.039	0.037	0.026	0.017	0.046	0.047
01-02-2045	0.026	0.024	0.014	0.012	0.031	0.032
01-03-2045	0.021	0.018	0.011	0.009	0.074	0.075
01-04-2045	0.022	0.022	0.020	0.019	0.118	0.119
01-05-2045	0.119	0.119	0.121	0.126	0.169	0.170
01-06-2045	0.144	0.138	0.126	0.124	0.192	0.193
01-07-2045	0.101	0.099	0.077	0.070	0.075	0.076
01-08-2045	0.102	0.098	0.068	0.060	0.054	0.054

Date	WQ28	WQ27	WQ26	WQ7	WQ5	WQCK661
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Output Percentile	95	95	95	95	95	95
01-09-2045	0.053	0.053	0.035	0.023	0.042	0.043
01-10-2045	0.043	0.043	0.043	0.037	0.058	0.058
01-11-2045	0.047	0.047	0.048	0.043	0.062	0.062
01-12-2045	0.049	0.049	0.042	0.036	0.218	0.221
01-01-2046	0.039	0.037	0.026	0.017	0.046	0.047
01-02-2046	0.026	0.024	0.014	0.012	0.031	0.032
01-03-2046	0.021	0.018	0.011	0.009	0.074	0.075
01-04-2046	0.022	0.022	0.020	0.018	0.118	0.119
01-05-2046	0.112	0.112	0.115	0.119	0.169	0.170
01-06-2046	0.144	0.138	0.126	0.124	0.192	0.193
01-07-2046	0.101	0.099	0.077	0.070	0.075	0.076
01-08-2046	0.102	0.098	0.068	0.061	0.054	0.054
01-09-2046	0.053	0.053	0.035	0.023	0.042	0.043
01-10-2046	0.057	0.057	0.054	0.045	0.058	0.058
01-11-2046	0.045	0.045	0.046	0.042	0.062	0.062
01-12-2046	0.065	0.064	0.047	0.038	0.218	0.221
01-01-2047	0.039	0.037	0.026	0.017	0.047	0.047
01-02-2047	0.026	0.024	0.014	0.012	0.032	0.032
01-03-2047	0.021	0.018	0.011	0.009	0.074	0.075
01-04-2047	0.022	0.022	0.020	0.019	0.118	0.119
01-05-2047	0.113	0.113	0.118	0.124	0.169	0.170
01-06-2047	0.112	0.111	0.111	0.111	0.192	0.193
01-07-2047	0.101	0.099	0.077	0.070	0.076	0.076
01-08-2047	0.102	0.098	0.068	0.059	0.054	0.054
01-09-2047	0.053	0.053	0.035	0.023	0.043	0.043
01-10-2047	0.051	0.051	0.050	0.043	0.058	0.058
01-11-2047	0.037	0.036	0.039	0.037	0.062	0.062
01-12-2047	0.048	0.048	0.042	0.035	0.219	0.221
01-01-2048	0.039	0.037	0.026	0.017	0.047	0.047
01-02-2048	0.026	0.024	0.014	0.012	0.032	0.032
01-03-2048	0.021	0.018	0.011	0.009	0.074	0.075
01-04-2048	0.022	0.022	0.020	0.019	0.118	0.119
01-05-2048	0.113	0.113	0.118	0.124	0.169	0.170
01-06-2048	0.111	0.111	0.111	0.110	0.192	0.193
01-07-2048	0.101	0.099	0.077	0.070	0.076	0.076
01-08-2048	0.102	0.098	0.068	0.059	0.054	0.054
01-09-2048	0.053	0.053	0.035	0.023	0.043	0.043
01-10-2048	0.051	0.051	0.050	0.043	0.058	0.058
01-11-2048	0.036	0.036	0.039	0.037	0.062	0.062
01-12-2048	0.048	0.048	0.042	0.035	0.219	0.221
01-01-2049	0.039	0.037	0.026	0.017	0.047	0.047
01-02-2049	0.026	0.024	0.014	0.012	0.032	0.032
01-03-2049	0.021	0.018	0.011	0.009	0.074	0.075
01-04-2049	0.022	0.022	0.020	0.019	0.118	0.119
01-05-2049	0.113	0.113	0.118	0.124	0.169	0.170
01-06-2049	0.112	0.112	0.111	0.111	0.192	0.193
01-07-2049	0.101	0.099	0.077	0.070	0.076	0.076
01-08-2049	0.102	0.098	0.068	0.059	0.054	0.054
01-09-2049	0.053	0.053	0.035	0.023	0.043	0.043
01-10-2049	0.051	0.051	0.050	0.043	0.058	0.058
01-11-2049	0.037	0.036	0.039	0.037	0.062	0.062
01-12-2049	0.048	0.048	0.042	0.035	0.219	0.221
01-01-2050	0.039	0.037	0.026	0.017	0.047	0.047
01-02-2050	0.026	0.024	0.014	0.012	0.032	0.032
01-03-2050	0.021	0.018	0.011	0.009	0.074	0.075
01-04-2050	0.022	0.022	0.020	0.019	0.118	0.119
01-05-2050	0.113	0.113	0.118	0.124	0.169	0.170
01-06-2050	0.112	0.112	0.111	0.111	0.192	0.193

Date	WQ28	WQ27	WQ26	WQ7	WQ5	WQCK661
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Output Percentile	95	95	95	95	95	95
01-07-2050	0.101	0.099	0.077	0.070	0.076	0.076
01-08-2050	0.102	0.098	0.068	0.059	0.054	0.054
01-09-2050	0.053	0.053	0.035	0.023	0.043	0.043
01-10-2050	0.051	0.051	0.050	0.043	0.058	0.058
01-11-2050	0.036	0.036	0.039	0.037	0.062	0.062
01-12-2050	0.050	0.050	0.043	0.036	0.219	0.221
01-01-2051	0.039	0.037	0.026	0.017	0.047	0.047
01-02-2051	0.026	0.024	0.014	0.012	0.032	0.032
01-03-2051	0.021	0.018	0.011	0.009	0.074	0.075
01-04-2051	0.022	0.022	0.020	0.019	0.118	0.119
01-05-2051	0.113	0.113	0.118	0.124	0.169	0.170
01-06-2051	0.112	0.112	0.111	0.111	0.192	0.193
01-07-2051	0.101	0.099	0.077	0.070	0.076	0.076
01-08-2051	0.102	0.098	0.068	0.059	0.054	0.054
01-09-2051	0.053	0.053	0.035	0.023	0.043	0.043
01-10-2051	0.051	0.051	0.050	0.043	0.058	0.058
01-11-2051	0.036	0.036	0.039	0.037	0.062	0.062
01-12-2051	0.048	0.048	0.042	0.035	0.219	0.221
01-01-2052	0.039	0.037	0.026	0.017	0.047	0.047
01-02-2052	0.026	0.024	0.014	0.012	0.032	0.032
01-03-2052	0.021	0.018	0.011	0.009	0.074	0.075
01-04-2052	0.022	0.022	0.020	0.019	0.118	0.119
01-05-2052	0.113	0.113	0.118	0.124	0.169	0.170
01-06-2052	0.111	0.111	0.111	0.110	0.192	0.193
01-07-2052	0.101	0.099	0.077	0.070	0.076	0.076
01-08-2052	0.102	0.098	0.068	0.059	0.054	0.054
01-09-2052	0.053	0.053	0.035	0.023	0.043	0.043
01-10-2052	0.051	0.051	0.050	0.043	0.058	0.058
01-11-2052	0.036	0.036	0.039	0.037	0.062	0.062
01-12-2052	0.048	0.048	0.042	0.036	0.219	0.221
01-01-2053	0.039	0.037	0.026	0.017	0.047	0.047
01-02-2053	0.026	0.024	0.014	0.012	0.032	0.032
01-03-2053	0.021	0.018	0.011	0.009	0.074	0.075
01-04-2053	0.022	0.022	0.020	0.019	0.118	0.119
01-05-2053	0.113	0.113	0.118	0.124	0.169	0.170
01-06-2053	0.112	0.112	0.111	0.111	0.192	0.193
01-07-2053	0.101	0.099	0.077	0.070	0.076	0.076
01-08-2053	0.102	0.098	0.068	0.059	0.054	0.054
01-09-2053	0.053	0.053	0.035	0.023	0.043	0.043
01-10-2053	0.051	0.051	0.050	0.043	0.058	0.058
01-11-2053	0.036	0.036	0.039	0.037	0.062	0.062
01-12-2053	0.048	0.048	0.042	0.035	0.219	0.221
01-01-2054	0.039	0.037	0.026	0.017	0.047	0.047
01-02-2054	0.026	0.024	0.014	0.012	0.032	0.032
01-03-2054	0.021	0.018	0.011	0.009	0.074	0.075
01-04-2054	0.022	0.022	0.020	0.019	0.118	0.119
01-05-2054	0.113	0.113	0.118	0.124	0.169	0.170
01-06-2054	0.112	0.112	0.111	0.111	0.192	0.193
01-07-2054	0.101	0.099	0.077	0.070	0.076	0.076
01-08-2054	0.102	0.098	0.068	0.059	0.054	0.054
01-09-2054	0.053	0.053	0.035	0.023	0.043	0.043
01-10-2054	0.051	0.051	0.050	0.043	0.058	0.058
01-11-2054	0.036	0.036	0.039	0.037	0.062	0.062
01-12-2054	0.048	0.048	0.042	0.035	0.219	0.221
01-01-2055	0.039	0.037	0.026	0.017	0.047	0.047
01-02-2055	0.026	0.024	0.014	0.012	0.032	0.032
01-03-2055	0.021	0.018	0.011	0.009	0.074	0.075
01-04-2055	0.022	0.022	0.020	0.019	0.118	0.119

Date	WQ28	WQ27	WQ26	WQ7	WQ5	WQCK661
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Output Percentile	95	95	95	95	95	95
01-05-2055	0.113	0.113	0.118	0.124	0.169	0.170
01-06-2055	0.112	0.112	0.111	0.111	0.192	0.193
01-07-2055	0.101	0.099	0.077	0.070	0.076	0.076
01-08-2055	0.102	0.098	0.068	0.059	0.054	0.054
01-09-2055	0.053	0.053	0.035	0.023	0.043	0.043
01-10-2055	0.051	0.051	0.050	0.043	0.058	0.058
01-11-2055	0.036	0.036	0.039	0.037	0.062	0.062
01-12-2055	0.048	0.048	0.042	0.035	0.219	0.221
01-01-2056	0.039	0.037	0.026	0.017	0.047	0.047
01-02-2056	0.026	0.024	0.014	0.012	0.032	0.032
01-03-2056	0.021	0.018	0.011	0.009	0.074	0.075
01-04-2056	0.022	0.022	0.020	0.019	0.118	0.119
01-05-2056	0.113	0.113	0.118	0.124	0.169	0.170
01-06-2056	0.111	0.111	0.111	0.110	0.192	0.193
01-07-2056	0.101	0.099	0.077	0.070	0.076	0.076
01-08-2056	0.102	0.098	0.068	0.059	0.054	0.054
01-09-2056	0.053	0.053	0.035	0.023	0.043	0.043
01-10-2056	0.051	0.051	0.050	0.043	0.058	0.058
01-11-2056	0.036	0.036	0.039	0.037	0.062	0.062
01-12-2056	0.048	0.048	0.042	0.036	0.219	0.221
01-01-2057	0.039	0.037	0.026	0.017	0.047	0.047
01-02-2057	0.026	0.024	0.014	0.012	0.032	0.032
01-03-2057	0.021	0.018	0.011	0.009	0.074	0.075
01-04-2057	0.022	0.022	0.020	0.019	0.118	0.119
01-05-2057	0.113	0.113	0.118	0.124	0.169	0.170
01-06-2057	0.112	0.112	0.111	0.111	0.192	0.193
01-07-2057	0.101	0.099	0.077	0.070	0.076	0.076
01-08-2057	0.102	0.098	0.068	0.059	0.054	0.054
01-09-2057	0.053	0.053	0.035	0.023	0.043	0.043
01-10-2057	0.051	0.051	0.050	0.043	0.058	0.058
01-11-2057	0.036	0.036	0.039	0.037	0.062	0.062
01-12-2057	0.048	0.048	0.042	0.035	0.219	0.221
01-01-2058	0.039	0.037	0.026	0.017	0.047	0.047
01-02-2058	0.026	0.024	0.014	0.012	0.032	0.032
01-03-2058	0.021	0.018	0.011	0.009	0.074	0.075
01-04-2058	0.022	0.022	0.020	0.019	0.118	0.119
01-05-2058	0.113	0.113	0.118	0.124	0.169	0.170
01-06-2058	0.112	0.112	0.111	0.111	0.192	0.193
01-07-2058	0.101	0.099	0.077	0.070	0.076	0.076
01-08-2058	0.102	0.098	0.068	0.059	0.054	0.054
01-09-2058	0.053	0.053	0.035	0.023	0.043	0.043
01-10-2058	0.051	0.051	0.050	0.043	0.058	0.058
01-11-2058	0.036	0.036	0.039	0.037	0.062	0.062
01-12-2058	0.048	0.048	0.042	0.035	0.219	0.221
01-01-2059	0.039	0.037	0.026	0.017	0.047	0.047
01-02-2059	0.026	0.024	0.014	0.012	0.032	0.032
01-03-2059	0.021	0.018	0.011	0.009	0.074	0.075
01-04-2059	0.022	0.022	0.020	0.019	0.118	0.119
01-05-2059	0.113	0.113	0.118	0.124	0.169	0.170
01-06-2059	0.112	0.112	0.111	0.111	0.192	0.193
01-07-2059	0.101	0.099	0.077	0.070	0.076	0.076
01-08-2059	0.102	0.098	0.068	0.059	0.054	0.054
01-09-2059	0.053	0.053	0.035	0.023	0.043	0.043
01-10-2059	0.051	0.051	0.050	0.043	0.058	0.058
01-11-2059	0.036	0.036	0.039	0.037	0.062	0.062
01-12-2059	0.048	0.048	0.042	0.035	0.219	0.221
01-01-2060	0.039	0.037	0.026	0.017	0.047	0.047
01-02-2060	0.026	0.024	0.014	0.012	0.032	0.032

Date	WQ28	WQ27	WQ26	WQ7	WQ5	WQCK661
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Output Percentile	95	95	95	95	95	95
01-03-2060	0.021	0.018	0.011	0.009	0.074	0.075
01-04-2060	0.022	0.022	0.020	0.019	0.118	0.119
01-05-2060	0.113	0.113	0.118	0.124	0.169	0.170
01-06-2060	0.111	0.111	0.111	0.110	0.192	0.193
01-07-2060	0.101	0.099	0.077	0.070	0.076	0.076
01-08-2060	0.102	0.098	0.068	0.059	0.054	0.054
01-09-2060	0.053	0.053	0.035	0.023	0.043	0.043
01-10-2060	0.051	0.051	0.050	0.043	0.058	0.058
01-11-2060	0.036	0.036	0.039	0.037	0.062	0.062
01-12-2060	0.048	0.048	0.042	0.036	0.219	0.221
01-01-2061	0.039	0.037	0.026	0.017	0.047	0.047
01-02-2061	0.026	0.024	0.014	0.012	0.032	0.032
01-03-2061	0.021	0.018	0.011	0.009	0.074	0.075
01-04-2061	0.022	0.022	0.020	0.019	0.118	0.119
01-05-2061	0.113	0.113	0.118	0.124	0.169	0.170
01-06-2061	0.112	0.112	0.111	0.111	0.192	0.193
01-07-2061	0.101	0.099	0.077	0.070	0.076	0.076
01-08-2061	0.102	0.098	0.068	0.059	0.054	0.054
01-09-2061	0.053	0.053	0.035	0.023	0.043	0.043
01-10-2061	0.051	0.051	0.050	0.043	0.058	0.058
01-11-2061	0.036	0.036	0.039	0.037	0.062	0.062
01-12-2061	0.048	0.048	0.042	0.035	0.219	0.221
01-01-2062	0.039	0.037	0.026	0.017	0.047	0.047
01-02-2062	0.026	0.024	0.014	0.012	0.032	0.032
01-03-2062	0.021	0.018	0.011	0.009	0.074	0.075
01-04-2062	0.022	0.022	0.020	0.019	0.118	0.119
01-05-2062	0.113	0.113	0.118	0.124	0.169	0.170
01-06-2062	0.112	0.112	0.111	0.111	0.192	0.193
01-07-2062	0.101	0.099	0.077	0.070	0.076	0.076
01-08-2062	0.102	0.098	0.068	0.059	0.054	0.054
01-09-2062	0.053	0.053	0.035	0.023	0.043	0.043
01-10-2062	0.051	0.051	0.050	0.043	0.058	0.058
01-11-2062	0.036	0.036	0.039	0.037	0.062	0.062
01-12-2062	0.048	0.048	0.042	0.035	0.219	0.221
01-01-2063	0.039	0.037	0.026	0.017	0.047	0.047
01-02-2063	0.026	0.024	0.014	0.012	0.032	0.032
01-03-2063	0.021	0.018	0.011	0.009	0.074	0.075
01-04-2063	0.022	0.022	0.020	0.019	0.118	0.119
01-05-2063	0.113	0.113	0.118	0.124	0.169	0.170
01-06-2063	0.112	0.112	0.111	0.111	0.192	0.193
01-07-2063	0.101	0.099	0.077	0.070	0.076	0.076
01-08-2063	0.102	0.098	0.068	0.059	0.054	0.054
01-09-2063	0.053	0.053	0.035	0.023	0.043	0.043
01-10-2063	0.051	0.051	0.050	0.043	0.058	0.058
01-11-2063	0.036	0.036	0.039	0.037	0.062	0.062
01-12-2063	0.048	0.048	0.042	0.035	0.219	0.221
01-01-2064	0.039	0.037	0.026	0.017	0.047	0.047
01-02-2064	0.026	0.024	0.014	0.012	0.032	0.032
01-03-2064	0.021	0.018	0.011	0.009	0.074	0.075
01-04-2064	0.022	0.022	0.020	0.019	0.118	0.119
01-05-2064	0.120	0.120	0.127	0.132	0.169	0.170
01-06-2064	0.144	0.138	0.126	0.124	0.192	0.193
01-07-2064	0.071	0.071	0.062	0.055	0.076	0.076
01-08-2064	0.050	0.050	0.045	0.039	0.054	0.054
01-09-2064	0.046	0.046	0.035	0.023	0.043	0.043
01-10-2064	0.035	0.035	0.037	0.033	0.058	0.058
01-11-2064	0.046	0.046	0.046	0.042	0.062	0.062
01-12-2064	0.041	0.041	0.037	0.032	0.219	0.221

Date	WQ28	WQ27	WQ26	WQ7	WQ5	WQCK661
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Output Percentile	95	95	95	95	95	95
01-01-2065	0.039	0.037	0.026	0.017	0.047	0.047
01-02-2065	0.026	0.024	0.014	0.012	0.032	0.032
01-03-2065	0.021	0.018	0.011	0.009	0.074	0.075
01-04-2065	0.022	0.022	0.020	0.019	0.118	0.119
01-05-2065	0.164	0.164	0.162	0.161	0.169	0.170
01-06-2065	0.144	0.138	0.126	0.124	0.192	0.193
01-07-2065	0.060	0.060	0.053	0.049	0.076	0.076
01-08-2065	0.043	0.043	0.039	0.036	0.054	0.054
01-09-2065	0.043	0.042	0.035	0.023	0.043	0.043
01-10-2065	0.036	0.036	0.037	0.034	0.058	0.058
01-11-2065	0.040	0.040	0.041	0.039	0.062	0.062
01-12-2065	0.038	0.038	0.034	0.030	0.218	0.221
01-01-2066	0.027	0.027	0.024	0.017	0.047	0.047
01-02-2066	0.025	0.024	0.014	0.012	0.032	0.032
01-03-2066	0.021	0.018	0.011	0.009	0.074	0.075
01-04-2066	0.016	0.016	0.016	0.015	0.118	0.119
01-05-2066	0.105	0.106	0.113	0.119	0.169	0.170
01-06-2066	0.103	0.103	0.102	0.103	0.192	0.193
01-07-2066	0.041	0.041	0.039	0.037	0.076	0.076
01-08-2066	0.023	0.023	0.023	0.023	0.054	0.054
01-09-2066	0.015	0.015	0.015	0.015	0.043	0.043
01-10-2066	0.015	0.015	0.017	0.017	0.058	0.058
01-11-2066	0.017	0.017	0.021	0.022	0.062	0.062
01-12-2066	0.012	0.012	0.013	0.013	0.218	0.221
01-01-2067	0.012	0.012	0.012	0.012	0.047	0.047
01-02-2067	0.012	0.012	0.012	0.012	0.032	0.032
01-03-2067	0.012	0.012	0.011	0.009	0.074	0.075
01-04-2067	0.011	0.011	0.012	0.012	0.118	0.119
01-05-2067	0.076	0.076	0.081	0.086	0.169	0.170
01-06-2067	0.042	0.042	0.046	0.052	0.192	0.193
01-07-2067	0.017	0.017	0.017	0.017	0.076	0.076
01-08-2067	0.014	0.014	0.015	0.015	0.054	0.054
01-09-2067	0.006	0.006	0.007	0.008	0.043	0.043
01-10-2067	0.015	0.015	0.016	0.016	0.058	0.058
01-11-2067	0.016	0.016	0.020	0.021	0.062	0.062
01-12-2067	0.007	0.007	0.010	0.010	0.218	0.221
01-01-2068	0.005	0.005	0.006	0.007	0.047	0.047
01-02-2068	0.004	0.004	0.005	0.006	0.032	0.032
01-03-2068	0.003	0.003	0.004	0.005	0.074	0.075
01-04-2068	0.008	0.008	0.009	0.010	0.119	0.119
01-05-2068	0.076	0.076	0.081	0.087	0.170	0.170
01-06-2068	0.043	0.043	0.048	0.053	0.193	0.193
01-07-2068	0.017	0.017	0.017	0.017	0.076	0.076
01-08-2068	0.014	0.014	0.015	0.015	0.054	0.054
01-09-2068	0.006	0.006	0.007	0.008	0.043	0.043
01-10-2068	0.015	0.015	0.017	0.017	0.058	0.058
01-11-2068	0.016	0.017	0.020	0.022	0.062	0.062
01-12-2068	0.007	0.008	0.010	0.011	0.220	0.221
01-01-2069	0.005	0.005	0.006	0.007	0.047	0.047
01-02-2069	0.004	0.004	0.005	0.006	0.032	0.032
01-03-2069	0.003	0.003	0.004	0.005	0.075	0.075
01-04-2069	0.008	0.008	0.009	0.010	0.119	0.119
01-05-2069	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2069	0.043	0.044	0.048	0.054	0.193	0.193
01-07-2069	0.017	0.017	0.017	0.017	0.076	0.076
01-08-2069	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2069	0.006	0.006	0.007	0.008	0.043	0.043
01-10-2069	0.015	0.016	0.017	0.017	0.058	0.058

Date	WQ28	WQ27	WQ26	WQ7	WQ5	WQCK661
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Output Percentile	95	95	95	95	95	95
01-11-2069	0.016	0.017	0.021	0.022	0.062	0.062
01-12-2069	0.007	0.008	0.011	0.011	0.220	0.221
01-01-2070	0.005	0.005	0.007	0.007	0.047	0.047
01-02-2070	0.004	0.004	0.005	0.006	0.032	0.032
01-03-2070	0.003	0.003	0.004	0.005	0.075	0.075
01-04-2070	0.008	0.008	0.009	0.010	0.119	0.119
01-05-2070	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2070	0.043	0.044	0.048	0.054	0.193	0.193
01-07-2070	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2070	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2070	0.006	0.006	0.008	0.008	0.043	0.043
01-10-2070	0.015	0.016	0.018	0.017	0.058	0.058
01-11-2070	0.016	0.017	0.021	0.022	0.062	0.062
01-12-2070	0.007	0.008	0.011	0.011	0.220	0.221
01-01-2071	0.005	0.005	0.007	0.007	0.047	0.047
01-02-2071	0.004	0.004	0.005	0.006	0.032	0.032
01-03-2071	0.003	0.004	0.004	0.005	0.075	0.075
01-04-2071	0.008	0.008	0.009	0.010	0.119	0.119
01-05-2071	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2071	0.043	0.044	0.048	0.054	0.193	0.193
01-07-2071	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2071	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2071	0.006	0.006	0.008	0.008	0.043	0.043
01-10-2071	0.015	0.016	0.018	0.017	0.058	0.058
01-11-2071	0.016	0.017	0.021	0.022	0.062	0.062
01-12-2071	0.007	0.008	0.011	0.011	0.220	0.221
01-01-2072	0.005	0.005	0.007	0.007	0.047	0.047
01-02-2072	0.004	0.004	0.005	0.006	0.032	0.032
01-03-2072	0.003	0.004	0.004	0.005	0.075	0.075
01-04-2072	0.008	0.008	0.009	0.010	0.119	0.119
01-05-2072	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2072	0.043	0.044	0.048	0.054	0.193	0.193
01-07-2072	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2072	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2072	0.006	0.006	0.008	0.008	0.043	0.043
01-10-2072	0.015	0.016	0.018	0.017	0.058	0.058
01-11-2072	0.016	0.017	0.021	0.022	0.062	0.062
01-12-2072	0.007	0.008	0.011	0.011	0.220	0.221
01-01-2073	0.005	0.005	0.007	0.007	0.047	0.047
01-02-2073	0.004	0.004	0.005	0.006	0.032	0.032
01-03-2073	0.003	0.004	0.004	0.005	0.075	0.075
01-04-2073	0.008	0.008	0.009	0.010	0.119	0.119
01-05-2073	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2073	0.044	0.045	0.048	0.054	0.193	0.193
01-07-2073	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2073	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2073	0.006	0.006	0.008	0.008	0.043	0.043
01-10-2073	0.015	0.016	0.018	0.017	0.058	0.058
01-11-2073	0.016	0.017	0.021	0.022	0.062	0.062
01-12-2073	0.007	0.008	0.011	0.011	0.220	0.221
01-01-2074	0.005	0.005	0.007	0.007	0.047	0.047
01-02-2074	0.004	0.004	0.005	0.006	0.032	0.032
01-03-2074	0.003	0.004	0.004	0.005	0.075	0.075
01-04-2074	0.008	0.008	0.009	0.010	0.119	0.119
01-05-2074	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2074	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2074	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2074	0.014	0.014	0.015	0.016	0.054	0.054

Date	WQ28	WQ27	WQ26	WQ7	WQ5	WQCK661
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Output Percentile	95	95	95	95	95	95
01-09-2074	0.006	0.006	0.008	0.008	0.043	0.043
01-10-2074	0.015	0.016	0.018	0.017	0.058	0.058
01-11-2074	0.016	0.017	0.021	0.022	0.062	0.062
01-12-2074	0.007	0.008	0.011	0.011	0.220	0.221
01-01-2075	0.005	0.005	0.007	0.007	0.047	0.047
01-02-2075	0.004	0.004	0.005	0.006	0.032	0.032
01-03-2075	0.003	0.004	0.004	0.005	0.075	0.075
01-04-2075	0.008	0.008	0.009	0.010	0.119	0.119
01-05-2075	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2075	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2075	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2075	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2075	0.006	0.006	0.008	0.008	0.043	0.043
01-10-2075	0.015	0.016	0.018	0.017	0.058	0.058
01-11-2075	0.016	0.017	0.021	0.022	0.062	0.062
01-12-2075	0.007	0.008	0.011	0.011	0.220	0.221
01-01-2076	0.005	0.005	0.007	0.007	0.047	0.047
01-02-2076	0.004	0.004	0.005	0.006	0.032	0.032
01-03-2076	0.003	0.004	0.004	0.005	0.075	0.075
01-04-2076	0.008	0.008	0.009	0.010	0.119	0.119
01-05-2076	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2076	0.044	0.045	0.050	0.055	0.193	0.193
01-07-2076	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2076	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2076	0.006	0.006	0.008	0.008	0.043	0.043
01-10-2076	0.015	0.016	0.018	0.017	0.058	0.058
01-11-2076	0.016	0.017	0.021	0.022	0.062	0.062
01-12-2076	0.007	0.008	0.011	0.011	0.220	0.221
01-01-2077	0.005	0.005	0.007	0.007	0.047	0.047
01-02-2077	0.004	0.004	0.005	0.006	0.032	0.032
01-03-2077	0.003	0.004	0.004	0.005	0.075	0.075
01-04-2077	0.008	0.008	0.009	0.010	0.119	0.119
01-05-2077	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2077	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2077	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2077	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2077	0.006	0.006	0.008	0.008	0.043	0.043
01-10-2077	0.015	0.016	0.018	0.017	0.058	0.058
01-11-2077	0.016	0.017	0.021	0.022	0.062	0.062
01-12-2077	0.007	0.008	0.011	0.011	0.220	0.221
01-01-2078	0.005	0.005	0.007	0.007	0.047	0.047
01-02-2078	0.004	0.004	0.005	0.006	0.032	0.032
01-03-2078	0.003	0.004	0.004	0.005	0.075	0.075
01-04-2078	0.008	0.008	0.009	0.010	0.119	0.119
01-05-2078	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2078	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2078	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2078	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2078	0.006	0.006	0.008	0.008	0.043	0.043
01-10-2078	0.015	0.016	0.018	0.017	0.058	0.058
01-11-2078	0.016	0.017	0.021	0.022	0.062	0.062
01-12-2078	0.007	0.008	0.011	0.011	0.220	0.221
01-01-2079	0.005	0.005	0.007	0.007	0.047	0.047
01-02-2079	0.004	0.004	0.005	0.006	0.032	0.032
01-03-2079	0.003	0.004	0.004	0.005	0.075	0.075
01-04-2079	0.008	0.008	0.009	0.010	0.119	0.119
01-05-2079	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2079	0.044	0.045	0.050	0.056	0.193	0.193

Date	WQ28	WQ27	WQ26	WQ7	WQ5	WQCK661
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Output Percentile	95	95	95	95	95	95
01-07-2079	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2079	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2079	0.006	0.006	0.008	0.008	0.043	0.043
01-10-2079	0.015	0.016	0.018	0.017	0.058	0.058
01-11-2079	0.016	0.017	0.021	0.022	0.062	0.062
01-12-2079	0.007	0.008	0.011	0.011	0.220	0.221
01-01-2080	0.005	0.005	0.007	0.007	0.047	0.047
01-02-2080	0.004	0.004	0.005	0.006	0.032	0.032
01-03-2080	0.003	0.004	0.004	0.005	0.075	0.075
01-04-2080	0.008	0.008	0.009	0.010	0.119	0.119
01-05-2080	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2080	0.044	0.045	0.050	0.055	0.193	0.193
01-07-2080	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2080	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2080	0.006	0.006	0.008	0.008	0.043	0.043
01-10-2080	0.015	0.016	0.018	0.017	0.058	0.058
01-11-2080	0.016	0.017	0.021	0.022	0.062	0.062
01-12-2080	0.007	0.008	0.011	0.011	0.220	0.221
01-01-2081	0.005	0.005	0.007	0.007	0.047	0.047
01-02-2081	0.004	0.004	0.005	0.006	0.032	0.032
01-03-2081	0.003	0.004	0.004	0.005	0.075	0.075
01-04-2081	0.008	0.008	0.009	0.010	0.119	0.119
01-05-2081	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2081	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2081	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2081	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2081	0.006	0.006	0.008	0.008	0.043	0.043
01-10-2081	0.015	0.016	0.018	0.017	0.058	0.058
01-11-2081	0.016	0.017	0.021	0.022	0.062	0.062
01-12-2081	0.007	0.008	0.011	0.011	0.220	0.221
01-01-2082	0.005	0.006	0.007	0.007	0.047	0.047
01-02-2082	0.004	0.004	0.005	0.006	0.032	0.032
01-03-2082	0.003	0.004	0.004	0.005	0.075	0.075
01-04-2082	0.008	0.008	0.009	0.010	0.119	0.119
01-05-2082	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2082	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2082	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2082	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2082	0.006	0.006	0.008	0.008	0.043	0.043
01-10-2082	0.015	0.016	0.018	0.017	0.058	0.058
01-11-2082	0.016	0.017	0.021	0.022	0.062	0.062
01-12-2082	0.007	0.008	0.011	0.011	0.220	0.221
01-01-2083	0.005	0.006	0.007	0.007	0.047	0.047
01-02-2083	0.004	0.004	0.005	0.006	0.032	0.032
01-03-2083	0.003	0.004	0.004	0.005	0.075	0.075
01-04-2083	0.008	0.008	0.009	0.010	0.119	0.119
01-05-2083	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2083	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2083	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2083	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2083	0.006	0.006	0.008	0.008	0.043	0.043
01-10-2083	0.015	0.016	0.018	0.017	0.058	0.058
01-11-2083	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2083	0.007	0.008	0.011	0.011	0.220	0.221
01-01-2084	0.005	0.006	0.007	0.007	0.047	0.047
01-02-2084	0.004	0.005	0.006	0.006	0.032	0.032
01-03-2084	0.003	0.004	0.004	0.005	0.075	0.075
01-04-2084	0.008	0.008	0.009	0.010	0.119	0.119

Date	WQ28	WQ27	WQ26	WQ7	WQ5	WQCK661
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Output Percentile	95	95	95	95	95	95
01-05-2084	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2084	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2084	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2084	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2084	0.006	0.006	0.008	0.008	0.043	0.043
01-10-2084	0.015	0.016	0.018	0.017	0.058	0.058
01-11-2084	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2084	0.007	0.008	0.011	0.011	0.220	0.221
01-01-2085	0.005	0.006	0.007	0.007	0.047	0.047
01-02-2085	0.004	0.005	0.006	0.006	0.032	0.032
01-03-2085	0.003	0.004	0.004	0.005	0.075	0.075
01-04-2085	0.008	0.008	0.009	0.010	0.119	0.119
01-05-2085	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2085	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2085	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2085	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2085	0.006	0.006	0.008	0.008	0.043	0.043
01-10-2085	0.015	0.016	0.018	0.017	0.058	0.058
01-11-2085	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2085	0.007	0.008	0.011	0.011	0.220	0.221
01-01-2086	0.005	0.006	0.007	0.007	0.047	0.047
01-02-2086	0.004	0.005	0.006	0.006	0.032	0.032
01-03-2086	0.003	0.004	0.004	0.005	0.075	0.075
01-04-2086	0.008	0.008	0.009	0.010	0.119	0.119
01-05-2086	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2086	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2086	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2086	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2086	0.006	0.006	0.008	0.008	0.043	0.043
01-10-2086	0.015	0.016	0.018	0.017	0.058	0.058
01-11-2086	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2086	0.007	0.008	0.011	0.011	0.220	0.221
01-01-2087	0.005	0.006	0.007	0.007	0.047	0.047
01-02-2087	0.004	0.005	0.006	0.006	0.032	0.032
01-03-2087	0.003	0.004	0.004	0.005	0.075	0.075
01-04-2087	0.008	0.008	0.009	0.010	0.119	0.119
01-05-2087	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2087	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2087	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2087	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2087	0.006	0.006	0.008	0.008	0.043	0.043
01-10-2087	0.015	0.016	0.018	0.017	0.058	0.058
01-11-2087	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2087	0.007	0.008	0.011	0.011	0.220	0.221
01-01-2088	0.005	0.006	0.007	0.007	0.047	0.047
01-02-2088	0.004	0.005	0.006	0.006	0.032	0.032
01-03-2088	0.003	0.004	0.004	0.005	0.075	0.075
01-04-2088	0.008	0.008	0.009	0.010	0.119	0.119
01-05-2088	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2088	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2088	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2088	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2088	0.006	0.006	0.008	0.008	0.043	0.043
01-10-2088	0.015	0.016	0.018	0.017	0.058	0.058
01-11-2088	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2088	0.007	0.008	0.011	0.011	0.220	0.221
01-01-2089	0.005	0.006	0.007	0.007	0.047	0.047
01-02-2089	0.004	0.005	0.006	0.006	0.032	0.032

Date	WQ28	WQ27	WQ26	WQ7	WQ5	WQCK661
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Output Percentile	95	95	95	95	95	95
01-03-2089	0.003	0.004	0.004	0.005	0.075	0.075
01-04-2089	0.008	0.008	0.009	0.010	0.119	0.119
01-05-2089	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2089	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2089	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2089	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2089	0.006	0.006	0.008	0.008	0.043	0.043
01-10-2089	0.015	0.016	0.018	0.017	0.058	0.058
01-11-2089	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2089	0.007	0.008	0.011	0.011	0.220	0.221
01-01-2090	0.005	0.006	0.007	0.007	0.047	0.047
01-02-2090	0.004	0.005	0.006	0.006	0.032	0.032
01-03-2090	0.003	0.004	0.004	0.005	0.075	0.075
01-04-2090	0.008	0.008	0.009	0.010	0.119	0.119
01-05-2090	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2090	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2090	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2090	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2090	0.006	0.006	0.008	0.008	0.043	0.043
01-10-2090	0.015	0.016	0.018	0.017	0.058	0.058
01-11-2090	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2090	0.007	0.008	0.011	0.011	0.220	0.221
01-01-2091	0.005	0.006	0.007	0.007	0.047	0.047
01-02-2091	0.004	0.005	0.006	0.006	0.032	0.032
01-03-2091	0.003	0.004	0.004	0.005	0.075	0.075
01-04-2091	0.008	0.008	0.009	0.010	0.119	0.119
01-05-2091	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2091	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2091	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2091	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2091	0.006	0.006	0.008	0.008	0.043	0.043
01-10-2091	0.015	0.016	0.018	0.017	0.058	0.058
01-11-2091	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2091	0.007	0.008	0.011	0.011	0.220	0.221
01-01-2092	0.005	0.006	0.007	0.007	0.047	0.047
01-02-2092	0.004	0.005	0.006	0.006	0.032	0.032
01-03-2092	0.003	0.004	0.004	0.005	0.075	0.075
01-04-2092	0.008	0.008	0.009	0.010	0.119	0.119
01-05-2092	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2092	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2092	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2092	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2092	0.006	0.006	0.008	0.008	0.043	0.043
01-10-2092	0.015	0.016	0.018	0.018	0.058	0.058
01-11-2092	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2092	0.007	0.008	0.011	0.011	0.220	0.221
01-01-2093	0.005	0.006	0.007	0.007	0.047	0.047
01-02-2093	0.004	0.005	0.006	0.006	0.032	0.032
01-03-2093	0.004	0.004	0.004	0.005	0.075	0.075
01-04-2093	0.008	0.008	0.009	0.010	0.119	0.119
01-05-2093	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2093	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2093	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2093	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2093	0.006	0.006	0.008	0.008	0.043	0.043
01-10-2093	0.015	0.016	0.018	0.018	0.058	0.058
01-11-2093	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2093	0.007	0.008	0.011	0.011	0.220	0.221

Date	WQ28	WQ27	WQ26	WQ7	WQ5	WQCK661
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Output Percentile	95	95	95	95	95	95
01-01-2094	0.005	0.006	0.007	0.007	0.047	0.047
01-02-2094	0.004	0.005	0.006	0.006	0.032	0.032
01-03-2094	0.004	0.004	0.004	0.005	0.075	0.075
01-04-2094	0.008	0.008	0.009	0.010	0.119	0.119
01-05-2094	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2094	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2094	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2094	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2094	0.006	0.006	0.008	0.008	0.043	0.043
01-10-2094	0.015	0.016	0.018	0.018	0.058	0.058
01-11-2094	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2094	0.007	0.008	0.011	0.011	0.220	0.221
01-01-2095	0.005	0.006	0.007	0.007	0.047	0.047
01-02-2095	0.004	0.005	0.006	0.006	0.032	0.032
01-03-2095	0.004	0.004	0.005	0.005	0.075	0.075
01-04-2095	0.008	0.008	0.009	0.010	0.119	0.119
01-05-2095	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2095	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2095	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2095	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2095	0.006	0.006	0.008	0.008	0.043	0.043
01-10-2095	0.015	0.016	0.018	0.018	0.058	0.058
01-11-2095	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2095	0.007	0.008	0.011	0.011	0.220	0.221
01-01-2096	0.005	0.006	0.007	0.007	0.047	0.047
01-02-2096	0.004	0.005	0.006	0.006	0.032	0.032
01-03-2096	0.004	0.004	0.005	0.005	0.075	0.075
01-04-2096	0.008	0.009	0.009	0.011	0.119	0.119
01-05-2096	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2096	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2096	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2096	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2096	0.006	0.006	0.008	0.008	0.043	0.043
01-10-2096	0.015	0.016	0.018	0.018	0.058	0.058
01-11-2096	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2096	0.007	0.008	0.011	0.011	0.220	0.221
01-01-2097	0.005	0.006	0.007	0.007	0.047	0.047
01-02-2097	0.004	0.005	0.006	0.006	0.032	0.032
01-03-2097	0.004	0.004	0.005	0.005	0.075	0.075
01-04-2097	0.008	0.009	0.009	0.010	0.119	0.119
01-05-2097	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2097	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2097	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2097	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2097	0.006	0.006	0.008	0.008	0.043	0.043
01-10-2097	0.015	0.016	0.018	0.018	0.058	0.058
01-11-2097	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2097	0.007	0.008	0.011	0.011	0.220	0.221
01-01-2098	0.005	0.006	0.007	0.007	0.047	0.047
01-02-2098	0.004	0.005	0.006	0.006	0.032	0.032
01-03-2098	0.004	0.004	0.005	0.005	0.075	0.075
01-04-2098	0.008	0.009	0.009	0.011	0.119	0.119
01-05-2098	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2098	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2098	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2098	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2098	0.006	0.006	0.008	0.008	0.043	0.043
01-10-2098	0.015	0.016	0.018	0.018	0.058	0.058

Date	WQ28	WQ27	WQ26	WQ7	WQ5	WQCK661
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Output Percentile	95	95	95	95	95	95
01-11-2098	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2098	0.007	0.008	0.011	0.011	0.220	0.221
01-01-2099	0.005	0.006	0.007	0.007	0.047	0.047
01-02-2099	0.004	0.005	0.006	0.006	0.032	0.032
01-03-2099	0.004	0.004	0.005	0.005	0.075	0.075
01-04-2099	0.008	0.009	0.009	0.011	0.119	0.119
01-05-2099	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2099	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2099	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2099	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2099	0.006	0.006	0.008	0.008	0.043	0.043
01-10-2099	0.015	0.016	0.018	0.018	0.058	0.058
01-11-2099	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2099	0.007	0.008	0.011	0.011	0.220	0.221
01-01-2100	0.005	0.006	0.007	0.007	0.047	0.047
01-02-2100	0.004	0.005	0.006	0.006	0.032	0.032
01-03-2100	0.004	0.004	0.005	0.005	0.075	0.075
01-04-2100	0.008	0.009	0.009	0.011	0.119	0.119
01-05-2100	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2100	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2100	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2100	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2100	0.006	0.006	0.008	0.008	0.043	0.043
01-10-2100	0.015	0.016	0.018	0.018	0.058	0.058
01-11-2100	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2100	0.007	0.008	0.011	0.011	0.220	0.221
01-01-2101	0.005	0.006	0.007	0.007	0.047	0.047
01-02-2101	0.004	0.005	0.006	0.006	0.032	0.032
01-03-2101	0.004	0.004	0.005	0.005	0.075	0.075
01-04-2101	0.008	0.009	0.009	0.011	0.119	0.119
01-05-2101	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2101	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2101	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2101	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2101	0.006	0.006	0.008	0.008	0.043	0.043
01-10-2101	0.015	0.016	0.018	0.018	0.058	0.058
01-11-2101	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2101	0.007	0.008	0.011	0.011	0.220	0.221
01-01-2102	0.005	0.006	0.007	0.007	0.047	0.047
01-02-2102	0.004	0.005	0.006	0.006	0.032	0.032
01-03-2102	0.004	0.004	0.005	0.005	0.075	0.075
01-04-2102	0.008	0.009	0.009	0.011	0.119	0.119
01-05-2102	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2102	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2102	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2102	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2102	0.006	0.006	0.008	0.008	0.043	0.043
01-10-2102	0.015	0.016	0.018	0.018	0.058	0.058
01-11-2102	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2102	0.007	0.008	0.011	0.011	0.220	0.221
01-01-2103	0.005	0.006	0.007	0.007	0.047	0.047
01-02-2103	0.004	0.005	0.006	0.006	0.032	0.032
01-03-2103	0.004	0.004	0.005	0.005	0.075	0.075
01-04-2103	0.008	0.009	0.009	0.011	0.119	0.119
01-05-2103	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2103	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2103	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2103	0.014	0.014	0.015	0.016	0.054	0.054

Date	WQ28	WQ27	WQ26	WQ7	WQ5	WQCK661
Units	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
Output Percentile	**95**	**95**	**95**	**95**	**95**	**95**
01-09-2103	0.006	0.006	0.008	0.009	0.043	0.043
01-10-2103	0.015	0.016	0.018	0.018	0.058	0.058
01-11-2103	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2103	0.007	0.008	0.011	0.011	0.220	0.221
01-01-2104	0.005	0.006	0.007	0.007	0.047	0.047
01-02-2104	0.004	0.005	0.006	0.006	0.032	0.032
01-03-2104	0.004	0.004	0.005	0.005	0.075	0.075
01-04-2104	0.008	0.009	0.009	0.011	0.119	0.119
01-05-2104	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2104	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2104	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2104	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2104	0.006	0.006	0.008	0.009	0.043	0.043
01-10-2104	0.015	0.016	0.018	0.018	0.058	0.058
01-11-2104	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2104	0.007	0.008	0.011	0.011	0.220	0.221
01-01-2105	0.005	0.006	0.007	0.007	0.047	0.047
01-02-2105	0.004	0.005	0.006	0.006	0.032	0.032
01-03-2105	0.004	0.004	0.005	0.005	0.075	0.075
01-04-2105	0.008	0.009	0.009	0.011	0.119	0.119
01-05-2105	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2105	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2105	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2105	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2105	0.006	0.006	0.008	0.009	0.043	0.043
01-10-2105	0.015	0.016	0.018	0.018	0.058	0.058
01-11-2105	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2105	0.007	0.008	0.011	0.011	0.220	0.221
01-01-2106	0.005	0.006	0.007	0.007	0.047	0.047
01-02-2106	0.004	0.005	0.006	0.006	0.032	0.032
01-03-2106	0.004	0.004	0.005	0.005	0.075	0.075
01-04-2106	0.008	0.009	0.009	0.011	0.119	0.119
01-05-2106	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2106	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2106	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2106	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2106	0.006	0.006	0.008	0.009	0.043	0.043
01-10-2106	0.015	0.016	0.018	0.018	0.058	0.058
01-11-2106	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2106	0.007	0.008	0.011	0.011	0.220	0.221
01-01-2107	0.005	0.006	0.007	0.007	0.047	0.047
01-02-2107	0.004	0.005	0.006	0.006	0.032	0.032
01-03-2107	0.004	0.004	0.005	0.005	0.075	0.075
01-04-2107	0.008	0.009	0.009	0.011	0.119	0.119
01-05-2107	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2107	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2107	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2107	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2107	0.006	0.006	0.008	0.009	0.043	0.043
01-10-2107	0.015	0.016	0.018	0.018	0.058	0.058
01-11-2107	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2107	0.008	0.009	0.011	0.011	0.220	0.221
01-01-2108	0.005	0.006	0.007	0.007	0.047	0.047
01-02-2108	0.004	0.005	0.006	0.006	0.032	0.032
01-03-2108	0.004	0.004	0.005	0.005	0.075	0.075
01-04-2108	0.009	0.009	0.009	0.011	0.119	0.119
01-05-2108	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2108	0.044	0.045	0.050	0.056	0.193	0.193

Date	WQ28	WQ27	WQ26	WQ7	WQ5	WQCK661
Units	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
Output Percentile	**95**	**95**	**95**	**95**	**95**	**95**
01-07-2108	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2108	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2108	0.006	0.006	0.008	0.009	0.043	0.043
01-10-2108	0.015	0.016	0.018	0.018	0.058	0.058
01-11-2108	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2108	0.008	0.009	0.011	0.011	0.220	0.221
01-01-2109	0.005	0.006	0.007	0.007	0.047	0.047
01-02-2109	0.004	0.005	0.006	0.006	0.032	0.032
01-03-2109	0.004	0.004	0.005	0.005	0.075	0.075
01-04-2109	0.009	0.009	0.009	0.011	0.119	0.119
01-05-2109	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2109	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2109	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2109	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2109	0.006	0.006	0.008	0.009	0.043	0.043
01-10-2109	0.015	0.016	0.018	0.018	0.058	0.058
01-11-2109	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2109	0.008	0.009	0.011	0.011	0.220	0.221
01-01-2110	0.005	0.006	0.007	0.007	0.047	0.047
01-02-2110	0.004	0.005	0.006	0.006	0.032	0.032
01-03-2110	0.004	0.004	0.005	0.005	0.075	0.075
01-04-2110	0.008	0.009	0.009	0.011	0.119	0.119
01-05-2110	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2110	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2110	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2110	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2110	0.006	0.006	0.008	0.009	0.043	0.043
01-10-2110	0.015	0.016	0.018	0.018	0.058	0.058
01-11-2110	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2110	0.008	0.009	0.011	0.011	0.220	0.221
01-01-2111	0.005	0.006	0.007	0.007	0.047	0.047
01-02-2111	0.005	0.005	0.006	0.006	0.032	0.032
01-03-2111	0.004	0.004	0.005	0.005	0.075	0.075
01-04-2111	0.009	0.009	0.009	0.011	0.119	0.119
01-05-2111	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2111	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2111	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2111	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2111	0.006	0.006	0.008	0.009	0.043	0.043
01-10-2111	0.015	0.016	0.018	0.018	0.058	0.058
01-11-2111	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2111	0.008	0.009	0.011	0.011	0.220	0.221
01-01-2112	0.005	0.006	0.007	0.007	0.047	0.047
01-02-2112	0.005	0.005	0.006	0.006	0.032	0.032
01-03-2112	0.004	0.004	0.005	0.005	0.075	0.075
01-04-2112	0.009	0.009	0.009	0.011	0.119	0.119
01-05-2112	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2112	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2112	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2112	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2112	0.006	0.006	0.008	0.009	0.043	0.043
01-10-2112	0.015	0.016	0.018	0.018	0.058	0.058
01-11-2112	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2112	0.008	0.009	0.011	0.011	0.220	0.221
01-01-2113	0.005	0.006	0.007	0.007	0.047	0.047
01-02-2113	0.005	0.005	0.006	0.006	0.032	0.032
01-03-2113	0.004	0.004	0.005	0.005	0.075	0.075
01-04-2113	0.009	0.009	0.009	0.011	0.119	0.119

Date	WQ28	WQ27	WQ26	WQ7	WQ5	WQCK661
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Output Percentile	95	95	95	95	95	95
01-05-2113	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2113	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2113	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2113	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2113	0.006	0.006	0.008	0.009	0.043	0.043
01-10-2113	0.015	0.016	0.018	0.018	0.058	0.058
01-11-2113	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2113	0.008	0.009	0.011	0.011	0.220	0.221
01-01-2114	0.005	0.006	0.007	0.008	0.047	0.047
01-02-2114	0.005	0.005	0.006	0.006	0.032	0.032
01-03-2114	0.004	0.004	0.005	0.005	0.075	0.075
01-04-2114	0.009	0.009	0.009	0.011	0.119	0.119
01-05-2114	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2114	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2114	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2114	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2114	0.006	0.006	0.008	0.009	0.043	0.043
01-10-2114	0.015	0.016	0.018	0.018	0.058	0.058
01-11-2114	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2114	0.008	0.009	0.011	0.011	0.220	0.221
01-01-2115	0.005	0.006	0.007	0.008	0.047	0.047
01-02-2115	0.005	0.005	0.006	0.006	0.032	0.032
01-03-2115	0.004	0.004	0.005	0.005	0.075	0.075
01-04-2115	0.009	0.009	0.009	0.011	0.119	0.119
01-05-2115	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2115	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2115	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2115	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2115	0.006	0.006	0.008	0.009	0.043	0.043
01-10-2115	0.015	0.016	0.018	0.018	0.058	0.058
01-11-2115	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2115	0.008	0.009	0.011	0.011	0.220	0.221
01-01-2116	0.005	0.006	0.007	0.008	0.047	0.047
01-02-2116	0.005	0.005	0.006	0.006	0.032	0.032
01-03-2116	0.004	0.004	0.005	0.005	0.075	0.075
01-04-2116	0.009	0.009	0.009	0.011	0.119	0.119
01-05-2116	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2116	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2116	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2116	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2116	0.006	0.006	0.008	0.009	0.043	0.043
01-10-2116	0.015	0.016	0.018	0.018	0.058	0.058
01-11-2116	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2116	0.008	0.009	0.011	0.011	0.220	0.221
01-01-2117	0.005	0.006	0.007	0.008	0.047	0.047
01-02-2117	0.005	0.005	0.006	0.006	0.032	0.032
01-03-2117	0.004	0.004	0.005	0.005	0.075	0.075
01-04-2117	0.009	0.009	0.009	0.011	0.119	0.119
01-05-2117	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2117	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2117	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2117	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2117	0.006	0.006	0.008	0.009	0.043	0.043
01-10-2117	0.015	0.016	0.018	0.018	0.058	0.058
01-11-2117	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2117	0.008	0.009	0.011	0.011	0.220	0.221
01-01-2118	0.005	0.006	0.007	0.008	0.047	0.047
01-02-2118	0.005	0.005	0.006	0.006	0.032	0.032

Date	WQ28	WQ27	WQ26	WQ7	WQ5	WQCK661
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Output Percentile	95	95	95	95	95	95
01-03-2118	0.004	0.004	0.005	0.005	0.075	0.075
01-04-2118	0.009	0.009	0.009	0.011	0.119	0.119
01-05-2118	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2118	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2118	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2118	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2118	0.006	0.007	0.008	0.009	0.043	0.043
01-10-2118	0.015	0.016	0.018	0.018	0.058	0.058
01-11-2118	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2118	0.008	0.009	0.011	0.011	0.220	0.221
01-01-2119	0.005	0.006	0.007	0.008	0.047	0.047
01-02-2119	0.005	0.005	0.006	0.006	0.032	0.032
01-03-2119	0.004	0.004	0.005	0.005	0.075	0.075
01-04-2119	0.009	0.009	0.009	0.011	0.119	0.119
01-05-2119	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2119	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2119	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2119	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2119	0.006	0.007	0.008	0.009	0.043	0.043
01-10-2119	0.015	0.016	0.018	0.018	0.058	0.058
01-11-2119	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2119	0.008	0.009	0.011	0.011	0.220	0.221
01-01-2120	0.005	0.006	0.007	0.008	0.047	0.047
01-02-2120	0.005	0.005	0.006	0.006	0.032	0.032
01-03-2120	0.004	0.004	0.005	0.005	0.075	0.075
01-04-2120	0.009	0.009	0.009	0.011	0.119	0.119
01-05-2120	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2120	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2120	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2120	0.014	0.014	0.015	0.016	0.054	0.054
01-09-2120	0.006	0.007	0.008	0.009	0.043	0.043
01-10-2120	0.015	0.016	0.018	0.018	0.058	0.058
01-11-2120	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2120	0.008	0.009	0.011	0.011	0.220	0.221
01-01-2121	0.005	0.006	0.007	0.008	0.047	0.047
01-02-2121	0.005	0.005	0.006	0.006	0.032	0.032
01-03-2121	0.004	0.004	0.005	0.005	0.075	0.075
01-04-2121	0.009	0.009	0.009	0.011	0.119	0.119
01-05-2121	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2121	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2121	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2121	0.014	0.015	0.015	0.016	0.054	0.054
01-09-2121	0.006	0.007	0.008	0.009	0.043	0.043
01-10-2121	0.015	0.016	0.018	0.018	0.058	0.058
01-11-2121	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2121	0.008	0.009	0.011	0.011	0.220	0.221
01-01-2122	0.005	0.006	0.007	0.008	0.047	0.047
01-02-2122	0.005	0.005	0.006	0.006	0.032	0.032
01-03-2122	0.004	0.004	0.005	0.005	0.075	0.075
01-04-2122	0.009	0.009	0.009	0.011	0.119	0.119
01-05-2122	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2122	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2122	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2122	0.014	0.015	0.015	0.016	0.054	0.054
01-09-2122	0.006	0.007	0.008	0.009	0.043	0.043
01-10-2122	0.015	0.016	0.018	0.018	0.058	0.058
01-11-2122	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2122	0.008	0.009	0.011	0.011	0.220	0.221

Date	WQ28	WQ27	WQ26	WQ7	WQ5	WQCK661
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Output Percentile	95	95	95	95	95	95
01-01-2123	0.005	0.006	0.007	0.008	0.047	0.047
01-02-2123	0.005	0.005	0.006	0.006	0.032	0.032
01-03-2123	0.004	0.004	0.005	0.005	0.075	0.075
01-04-2123	0.009	0.009	0.009	0.011	0.119	0.119
01-05-2123	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2123	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2123	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2123	0.014	0.015	0.015	0.016	0.054	0.054
01-09-2123	0.006	0.007	0.008	0.009	0.043	0.043
01-10-2123	0.015	0.016	0.018	0.018	0.058	0.058
01-11-2123	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2123	0.008	0.009	0.011	0.011	0.220	0.221
01-01-2124	0.005	0.006	0.007	0.008	0.047	0.047
01-02-2124	0.005	0.005	0.006	0.006	0.032	0.032
01-03-2124	0.004	0.004	0.005	0.005	0.075	0.075
01-04-2124	0.009	0.009	0.009	0.011	0.119	0.119
01-05-2124	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2124	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2124	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2124	0.014	0.015	0.015	0.016	0.054	0.054
01-09-2124	0.006	0.007	0.008	0.009	0.043	0.043
01-10-2124	0.015	0.016	0.018	0.018	0.058	0.058
01-11-2124	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2124	0.008	0.009	0.011	0.011	0.220	0.221
01-01-2125	0.006	0.006	0.007	0.008	0.047	0.047
01-02-2125	0.005	0.005	0.006	0.006	0.032	0.032
01-03-2125	0.004	0.004	0.005	0.005	0.075	0.075
01-04-2125	0.009	0.009	0.009	0.011	0.119	0.119
01-05-2125	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2125	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2125	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2125	0.014	0.015	0.015	0.016	0.054	0.054
01-09-2125	0.006	0.007	0.008	0.009	0.043	0.043
01-10-2125	0.015	0.016	0.018	0.018	0.058	0.058
01-11-2125	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2125	0.008	0.009	0.011	0.011	0.220	0.221
01-01-2126	0.006	0.006	0.007	0.008	0.047	0.047
01-02-2126	0.005	0.005	0.006	0.006	0.032	0.032
01-03-2126	0.004	0.005	0.005	0.005	0.075	0.075
01-04-2126	0.009	0.009	0.009	0.011	0.119	0.119
01-05-2126	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2126	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2126	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2126	0.014	0.015	0.015	0.016	0.054	0.054
01-09-2126	0.006	0.007	0.008	0.009	0.043	0.043
01-10-2126	0.015	0.016	0.018	0.018	0.058	0.058
01-11-2126	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2126	0.008	0.009	0.011	0.011	0.220	0.221
01-01-2127	0.006	0.006	0.007	0.008	0.047	0.047
01-02-2127	0.005	0.005	0.006	0.006	0.032	0.032
01-03-2127	0.004	0.005	0.005	0.005	0.075	0.075
01-04-2127	0.009	0.009	0.009	0.011	0.119	0.119
01-05-2127	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2127	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2127	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2127	0.014	0.015	0.015	0.016	0.054	0.054
01-09-2127	0.006	0.007	0.008	0.009	0.043	0.043
01-10-2127	0.015	0.016	0.018	0.018	0.058	0.058
01-11-2127	0.017	0.018	0.021	0.022	0.062	0.062

Date	WQ28	WQ27	WQ26	WQ7	WQ5	WQCK661
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Output Percentile	95	95	95	95	95	95
01-12-2127	0.008	0.009	0.011	0.011	0.220	0.221
01-01-2128	0.006	0.006	0.007	0.008	0.047	0.047
01-02-2128	0.005	0.005	0.006	0.006	0.032	0.032
01-03-2128	0.004	0.005	0.005	0.005	0.075	0.075
01-04-2128	0.009	0.009	0.009	0.011	0.119	0.119
01-05-2128	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2128	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2128	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2128	0.014	0.015	0.015	0.016	0.054	0.054
01-09-2128	0.006	0.007	0.008	0.009	0.043	0.043
01-10-2128	0.015	0.016	0.018	0.018	0.058	0.058
01-11-2128	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2128	0.008	0.009	0.011	0.011	0.220	0.221
01-01-2129	0.006	0.006	0.007	0.008	0.047	0.047
01-02-2129	0.005	0.005	0.006	0.006	0.032	0.032
01-03-2129	0.004	0.005	0.005	0.005	0.075	0.075
01-04-2129	0.009	0.009	0.009	0.011	0.119	0.119
01-05-2129	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2129	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2129	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2129	0.014	0.015	0.015	0.016	0.054	0.054
01-09-2129	0.006	0.007	0.008	0.009	0.043	0.043
01-10-2129	0.015	0.016	0.018	0.018	0.058	0.058
01-11-2129	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2129	0.008	0.009	0.011	0.011	0.220	0.221
01-01-2130	0.006	0.006	0.007	0.008	0.047	0.047
01-02-2130	0.005	0.005	0.006	0.006	0.032	0.032
01-03-2130	0.004	0.005	0.005	0.005	0.075	0.075
01-04-2130	0.009	0.009	0.009	0.011	0.119	0.119
01-05-2130	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2130	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2130	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2130	0.014	0.015	0.015	0.016	0.054	0.054
01-09-2130	0.006	0.007	0.008	0.009	0.043	0.043
01-10-2130	0.015	0.016	0.018	0.018	0.058	0.058
01-11-2130	0.017	0.018	0.021	0.023	0.062	0.062
01-12-2130	0.008	0.009	0.011	0.011	0.220	0.221
01-01-2131	0.006	0.006	0.007	0.008	0.047	0.047
01-02-2131	0.005	0.005	0.006	0.006	0.032	0.032
01-03-2131	0.004	0.005	0.005	0.005	0.075	0.075
01-04-2131	0.009	0.009	0.009	0.011	0.119	0.119
01-05-2131	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2131	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2131	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2131	0.014	0.015	0.015	0.016	0.054	0.054
01-09-2131	0.006	0.007	0.008	0.009	0.043	0.043
01-10-2131	0.015	0.016	0.018	0.018	0.058	0.058
01-11-2131	0.017	0.018	0.021	0.023	0.062	0.062
01-12-2131	0.008	0.009	0.011	0.011	0.220	0.221
01-01-2132	0.006	0.006	0.007	0.008	0.047	0.047
01-02-2132	0.005	0.005	0.006	0.006	0.032	0.032
01-03-2132	0.004	0.005	0.005	0.005	0.075	0.075
01-04-2132	0.009	0.009	0.009	0.011	0.119	0.119
01-05-2132	0.076	0.077	0.082	0.087	0.170	0.170
01-06-2132	0.044	0.045	0.050	0.056	0.193	0.193
01-07-2132	0.017	0.017	0.017	0.018	0.076	0.076
01-08-2132	0.014	0.015	0.015	0.016	0.054	0.054
01-09-2132	0.006	0.007	0.008	0.009	0.043	0.043
01-10-2132	0.015	0.016	0.018	0.018	0.058	0.058
01-11-2132	0.017	0.018	0.021	0.022	0.062	0.062
01-12-2132	0.008	0.009	0.011	0.011	0.220	0.221
01-01-2133	0.006	0.006	0.007	0.008	0.047	0.047