



Blackwater Gold Project

2011 to 2020 Baseline Water Quality Report

March 2022

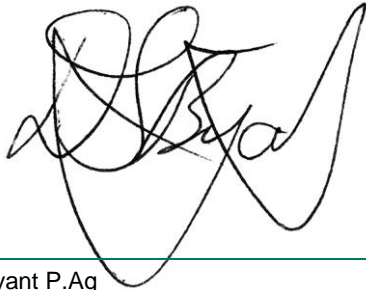
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EXECUTIVE SUMMARY

The Blackwater Gold Project (the Project) surface water quality baseline program was designed to collect baseline water quality data from streams and lakes within the Project area. The baseline program has been ongoing since 2011, although the frequency and location of sampling has changed over time to reflect updated Project designs, to meet specific Project objectives, and in consultation with regulators, First Nations, and other stakeholders. At each site, water quality samples were collected to characterize the natural spatial and temporal variation present in these systems. To date, no construction has occurred at the Project site and water quality data represent true baseline data.

The surface water quality monitoring program for the Project has been designed with the objective of providing adequate baseline characterization to support provincial effluent discharge permitting in consideration of the following factors:

- Guidance provided by the BC Ministry of Environment and Climate Change Strategy (ENV) for development of water baseline monitoring programs, as per the *Water and Air Baseline Monitoring Guidance Document for Mine Proponents and Operators* (ENV 2016a);
- Baseline characterization requirements for implementation of the *Yinka Dene 'Uza'hné Surface Water Management Policy* (Nadleh Whut'en and Stelat'en 2016a), including sampling frequency recommendations provided by Carrier Sekani First Nations (CSFN) representatives:
 - 5-in-30 samples (i.e., five samples collected over a period of 30 days, or weekly sampling) collected twice a year during one calendar year; and
 - Monthly samples collected over a period of three years.
- EAC #M19-01 Condition 27 which requires characterization of water quality baseline for monitoring effects in:
 - Tatelkuz Lake;
 - Davidson Creek;
 - Chedakuz Creek at a location where Chedakuz Creek would be expected to be affected by mine effluent discharge into Davidson Creek; and
 - a location downstream where no further effects on water quality from the Project are predicted.
- EAC #M19-01 Condition 27 requires a description of the water quality baseline available for the aforementioned waterbodies. The description must include the locations, frequency and duration of sampling, and include consideration of Yinka Dene Water Law (YDWL), any other Aboriginal Group's water policies made available to the Holder, and guidance from ENV. The YDWL includes the *Yinka Dene 'Uza'hné Surface Water Management Policy* and the *Yinka Dene 'Uza'hné Guide to Surface Water Quality Standards*.

This report is intended to fulfill the requirements of EAC #M19-01 Condition 27. The details in Condition 27 and the corresponding sections addressing them are summarised in Table E-1.

Stream Water Quality

Water quality samples were collected at key stream sites related to the proposed Project at a range of intervals including weekly, monthly, quarterly, and annual sampling. Twenty-six stream and river sampling sites spanning seven watersheds were included in the 2011 to 2020 water quality program. Sampled watersheds included Creek 661, Davidson Creek, Turtle Creek, and Chedakuz Creek on the

eastern side of the Project; Creek 705 and a reference site on Fawnie Creek to the west of the Project; and additional reference sites in the Blackwater River watershed to the south of the Project.

The most commonly observed guideline exceedances in Project streams were total and dissolved aluminum, total cadmium, total chromium, total and dissolved copper, and total and dissolved zinc; guideline exceedances for each of these parameters were observed in all Project watersheds. Dissolved cadmium, total chromium, and total and dissolved iron concentrations were also above guidelines in most watersheds. Other parameters observed above guidelines were nitrite, total arsenic, dissolved cadmium, total and dissolved iron, total mercury, and total silver; pH values were also observed below the BC lower guideline limit.

Most streams in the Project area were near-neutral to slightly alkaline, with the lowest pH and alkalinity values observed closest to the Blackwater deposit in the headwaters of the Creek 661 and Davidson Creek watersheds. Alkalinity, hardness, and total dissolved solids (TDS) were geographically and seasonally controlled; values of these parameters were lowest in the Creek 661 and Creek 705 watersheds and upper Davidson Creek, and were typically highest during low flow periods and reduced during freshet.

Total suspended solids (TSS) and turbidity were generally low in Project streams, except during periods of increased runoff in freshet and during fall. In the upper Creek 661 watershed, instances of elevated suspended sediment were associated with increased total metal concentrations and water quality guideline exceedances.

Concentrations of nutrients and organic carbon were variable across the Project area. Nitrogen was predominantly in its organic form as represented by Total Kjeldahl Nitrogen (TKN), although in some samples nitrate was the dominant species. Organic carbon concentrations were also high, which were predominantly observed as dissolved organic carbon (DOC). Higher concentrations of organic carbon were typically observed during freshet months and late summer/early fall. Cyanide concentrations were typically below the detection limits, except for in the spring and summer 2011, when elevated cyanide concentrations were observed Project-wide. Concentrations of major anions (chloride, fluoride, and sulphate) were low in Project streams and did not exceed BC water quality guidelines in any stream samples.

Total metals were frequently dominated by the dissolved form, and consequently followed similar temporal and spatial patterns to TDS (reduced concentrations during periods of increased flow). The primary exception was aluminum. Total and dissolved aluminum were both elevated across the Project area, and aluminum trends generally followed the same pattern as TSS.

The greatest number of parameters with guideline exceedances for total and dissolved metals were observed in upper Creek 661 at site WQ4. Natural elevation of metal concentrations at this site can be attributed to the site's proximity to the Blackwater deposit; site WQ4 is adjacent to the footprint of the proposed open pit. Metal exceedances associated with deposit mineralization in Creek 661, Davidson Creek, and to a lesser extent in Creek 705, included total and dissolved cadmium, dissolved iron, and total and dissolved zinc. Concentrations of these parameters were attenuated along the Creek 661, Davidson Creek, and Creek 705 flowpaths. Copper and chromium concentrations were also frequently elevated but were not typically associated with the mineral deposit.

Although elevated metal concentrations at sites proximal to the mineral deposit were attenuated along the Creek 661, Davidson Creek, and Creek 705 flowpaths, dissolved iron, and total and dissolved zinc (parameters associated with the deposit) were also elevated at WQ7 in lower Davidson Creek. Other elevated metals at this site included total chromium and total iron. The cause of elevated metal concentrations at WQ7 was not identified.

Table E-1: Condition 27 Requirements of EAC #M19-01

EAC #M19-01 Condition 27	Comments												
<p>a. A description of the water quality baseline available for the waterbodies listed in paragraph c) existing at the time the Certificate is issued, and any additional baseline collected for those waterbodies subsequent to the issuance of the Certificate. The description must include the locations, frequency and duration of sampling, and include consideration of YDWL, any other Aboriginal Group's water policies made available to the Holder, and guidance from ENV.</p>	<p>This report covers the water quality baseline program in Tatelkuz Lake (WQ21), Davidson Creek (WQ1, WQ6, WQ31, WQ10, WQ28, WQ27, WQ26, and WQ7), and Chedakuz Creek (WQ8, WQ9, WQ13, WQ29, and WQ30) in Section 2, 4 and 6.</p> <p>The description of the locations, frequency and duration of sampling, including consideration of YDWL are summarized in Section 1.3 and 3 (Table 3.1-1).</p> <p>No other water policies have been made available by other Aboriginal groups.</p>												
<p>b. Clear documentation of how the baseline collection methods and scope compares to any methods specified in the YDWL, any other Aboriginal Group's water policies, and ENV guidance documents.</p>	<p>Sampling methods and scopes are documented in Section 3. Specifically, sampling was performed in accordance with the BC Field Sampling Manual (ENV 2013). The listed analytes and sampling frequency followed the requirements in BC Water and Air Baseline Monitoring Guidance (ENV 2016a) and the YDWL (Nadleh Whut'en and Stelat'en 2016b).</p> <p>As required in the YDWL, this report includes a detailed quality assurance/quality control (QA/QC) program (Section 3.4.1 and Section 3.4.2) and an evaluation of the resultant data quality (Section 3.4.3).</p> <p>Compiled water quality datasets are provided in Appendix B and Appendix D.</p> <p>Detailed evaluation of baseline conditions and associated data analyses are in Section 4.</p>												
<p>c. Water quality baseline for the following waterbodies:</p> <ul style="list-style-type: none"> i. Tatelkuz Lake; ii. Davidson Creek; iii. Chedakuz Creek at a location where Chedakuz Creek would be expected to be affected by mine effluent discharge into Davidson Creek; and iv. a location downstream of the location in paragraph c)iii) where no further effects on water quality from the Project is predicted. 	<p>Water quality baseline has been collected at the following sites:</p> <table border="1" data-bbox="1215 747 2927 1628"> <thead> <tr> <th data-bbox="1215 747 1345 788">Station</th> <th data-bbox="1345 747 2200 788">Rationale</th> <th data-bbox="2200 747 2927 788">Sampling Frequency</th> </tr> </thead> <tbody> <tr> <td data-bbox="1215 798 1345 1044">WQ8</td> <td data-bbox="1345 798 2200 1044">Tatelkuz Lake outlet, upstream of Davidson Creek, represents water quality at the outflow of Tatelkuz Lake and is used to replace WQ21. In recent discussions with the CSFNs, the potential water pathway to Tatelkuz Lake is groundwater seepage to Creek 661 which would then flow to upper Chedakuz Creek and then to Tatelkuz Lake. Ongoing discussions with the CSFNs suggest that WQ5 and WQ8 will provide good resolution to monitor seepage on Creek 661 and the effects on Tatelkuz Lake.</td> <td data-bbox="2200 798 2927 1044"> <ul style="list-style-type: none"> ■ 2011: Monthly (Apr-Dec) and 5-in-30 (May/Jun) ■ 2012: Monthly (Jan-Nov) and 5-in-30 (May/Jun) ■ 2013: Monthly (Jan-Jun) and 5-in-30 (May/Jun) ■ 2014: Monthly (Apr-Dec) ■ 2017: Monthly (Apr-Dec) ■ 2018: Monthly (Jan-May, Jul-Dec) ■ 2019: Monthly (Jan-Dec) ■ 2020: Monthly (Jan-Dec) </td> </tr> <tr> <td data-bbox="1215 1054 1345 1332">WQ5</td> <td data-bbox="1345 1054 2200 1332">Near-field monitoring site on Creek 661, potential receiving environment for seepage from Pit Lake and TSF</td> <td data-bbox="2200 1054 2927 1332"> <ul style="list-style-type: none"> ■ 2011: Monthly (May-Dec) and 5-in-30 (May/Jun) ■ 2012: Monthly (May-Nov) and 5-in-30 (May/Jun) ■ 2013: Monthly (Jan-Apr) and 5-in-30 (May/Jun) ■ 2014: Monthly (Apr-Dec) ■ 2016: Monthly (Sep) and 5-in-30 (Aug) ■ 2017: Quarterly (May, Jul, Oct) ■ 2018: Quarterly (Feb, May, Aug, Nov) ■ 2019: Quarterly (Feb, May, Aug, Nov) ■ 2020: Quarterly (Feb, May, Aug, Nov) </td> </tr> <tr> <td data-bbox="1215 1342 1345 1628">WQ9</td> <td data-bbox="1345 1342 2200 1628">Mid-field monitoring site on Chedakuz Creek, downstream of Davidson Creek confluence. sites Expected to be affected by mine effluent discharge into Davidson Creek</td> <td data-bbox="2200 1342 2927 1628"> <ul style="list-style-type: none"> ■ 2011: Monthly (May-Dec) and 5-in-30 (May/Jun) ■ 2012: Monthly (Jan-Dec) and 5-in-30 (May/Jun) ■ 2013: Monthly (Jan-Jun) and 5-in-30 (May/Jun) ■ 2014: Monthly (Apr-Dec) ■ 2016: Monthly (Sep) and 5-in-30 (Aug) ■ 2017: Monthly (Apr-Dec) ■ 2018: Monthly (Jan-May, Jul-Dec) ■ 2019: Monthly (Jan-Dec) ■ 2020: Monthly (Jan-Dec) and 5-in-30 (May/Jun, Aug) </td> </tr> </tbody> </table>	Station	Rationale	Sampling Frequency	WQ8	Tatelkuz Lake outlet, upstream of Davidson Creek, represents water quality at the outflow of Tatelkuz Lake and is used to replace WQ21. In recent discussions with the CSFNs, the potential water pathway to Tatelkuz Lake is groundwater seepage to Creek 661 which would then flow to upper Chedakuz Creek and then to Tatelkuz Lake. Ongoing discussions with the CSFNs suggest that WQ5 and WQ8 will provide good resolution to monitor seepage on Creek 661 and the effects on Tatelkuz Lake.	<ul style="list-style-type: none"> ■ 2011: Monthly (Apr-Dec) and 5-in-30 (May/Jun) ■ 2012: Monthly (Jan-Nov) and 5-in-30 (May/Jun) ■ 2013: Monthly (Jan-Jun) and 5-in-30 (May/Jun) ■ 2014: Monthly (Apr-Dec) ■ 2017: Monthly (Apr-Dec) ■ 2018: Monthly (Jan-May, Jul-Dec) ■ 2019: Monthly (Jan-Dec) ■ 2020: Monthly (Jan-Dec) 	WQ5	Near-field monitoring site on Creek 661, potential receiving environment for seepage from Pit Lake and TSF	<ul style="list-style-type: none"> ■ 2011: Monthly (May-Dec) and 5-in-30 (May/Jun) ■ 2012: Monthly (May-Nov) and 5-in-30 (May/Jun) ■ 2013: Monthly (Jan-Apr) and 5-in-30 (May/Jun) ■ 2014: Monthly (Apr-Dec) ■ 2016: Monthly (Sep) and 5-in-30 (Aug) ■ 2017: Quarterly (May, Jul, Oct) ■ 2018: Quarterly (Feb, May, Aug, Nov) ■ 2019: Quarterly (Feb, May, Aug, Nov) ■ 2020: Quarterly (Feb, May, Aug, Nov) 	WQ9	Mid-field monitoring site on Chedakuz Creek, downstream of Davidson Creek confluence. sites Expected to be affected by mine effluent discharge into Davidson Creek	<ul style="list-style-type: none"> ■ 2011: Monthly (May-Dec) and 5-in-30 (May/Jun) ■ 2012: Monthly (Jan-Dec) and 5-in-30 (May/Jun) ■ 2013: Monthly (Jan-Jun) and 5-in-30 (May/Jun) ■ 2014: Monthly (Apr-Dec) ■ 2016: Monthly (Sep) and 5-in-30 (Aug) ■ 2017: Monthly (Apr-Dec) ■ 2018: Monthly (Jan-May, Jul-Dec) ■ 2019: Monthly (Jan-Dec) ■ 2020: Monthly (Jan-Dec) and 5-in-30 (May/Jun, Aug)
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EAC #M19-01 Condition 27	Comments					
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Station	Rationale	Sampling Frequency				
	WQ13	Far-field monitoring site on Chedakuz Creek, downstream of Turtle Creek confluence	<ul style="list-style-type: none"> ■ 2011: Monthly (Apr-Dec) and 5-in-30 (May/Jun) ■ 2012: Monthly (Jan-Nov) and 5-in-30 (May/Jun) ■ 2013: Monthly (Jan) and 5-in-30 (May/Jun) ■ 2014: Monthly (Apr-Dec) ■ 2017: Monthly (Apr-Dec) ■ 2018: Monthly (Jan-May, Jul-Dec) ■ 2019: Monthly (Jan-Dec) ■ 2020: Monthly (Jan-Dec) and 5-in-30 (May/Jun, Aug) 			
	WQ29	Far-field monitoring site on Chedakuz Creek, downstream of private properties. Established in 2019. WQ29 and WQ30 are potential sites in Chedakuz Creek where no further effects on water quality from the Project is predicted. Active discussions with the CSFNs are ongoing regarding using the more distant station to set a "critical threshold" where no impacts would be expected.	<ul style="list-style-type: none"> ■ 2019: Quarterly (Feb, May, Aug, Nov) ■ 2020: Monthly (Jan-Dec) and 5-in-30 (May/Jun, Aug) 			
	WQ30	Far-field monitoring site on Chedakuz Creek, upstream of confluence with Nechako Reservoir. Established in 2019.	<ul style="list-style-type: none"> ■ 2019: Quarterly (Feb, May, Aug, Nov) ■ 2020: Monthly (Jan-Dec) and 5-in-30 (May/Jun, Aug) 			
d. The rationale for the selection of the locations for the collection of baseline information.	The rationale for selection of individual sites is addressed in Section 3 (Table 3.1-1).					
e. A comparison of site-specific water quality metrics or standards developed by Aboriginal Groups under their own Aboriginal water policies to the modelled water quality at a point on Chedakuz Creek where water received from Davidson Creek is fully mixed into Chedakuz Creek.	Section 5 (Table 5-2) provides a comparison of the modelled water quality at WQ13 in Chedakuz Creek to the calculated Class II standards for Chedakuz Creek.					

Lake Water Quality

Water quality samples were collected quarterly or annually at six lakes in the Project area from 2012 to 2014. Quarterly sampling at the surface of Lake 1682 (in the Davidson Creek headwaters) was reinitiated in February 2018.

Project lakes were near-neutral to slightly alkaline. Measured physical parameters (pH, alkalinity, hardness, and TDS) were slightly higher in the larger Kuyakuz and Tatelkuz lakes, compared to the headwater lakes at higher elevations. Total dissolved solids were typically higher during winter months (representing under-ice measurements) than when measured in summer and early fall.

Total suspended solids and turbidity were typically low in Project lakes, and exhibited minor seasonal variability. Samples collected in winter months, representing under-ice conditions, more frequently contained TSS values below the analytical detection limit. This result indicates that under ice-covered conditions, sediment loads in lakes are reduced, due to settling of suspended material and absence of sediment inputs to lake surfaces.

Concentrations of nutrients and anions were generally low, except for occasional ammonia and phosphorus concentrations in samples from the lower layer of lakes, which may have been influenced by capture of lake bottom sediments. Nutrient and anions concentrations did not exceed any applicable water quality guidelines.

Exceedances of water quality guidelines were observed for 13 parameters: total aluminum, total arsenic, total cadmium, total and dissolved copper, total and dissolved iron, total lead, total and dissolved manganese, total mercury, and total and dissolved zinc. Most of these exceedances were observed in the headwater lakes (Lake 1682, Lake 1538, and Lake 1428), closest to the Blackwater deposit, where entrained lake sediments were more likely to contain elevated metals due to the proximity of the mineralized zone.

Guideline exceedances for total aluminum, total arsenic, dissolved copper, total and dissolved iron, and total and dissolved manganese were restricted to individual samples collected from the lower layer of lakes, and may be attributed to capture of lake bottom sediments. The highest levels of TSS and turbidity were observed in the hypolimnion layer, indicating potential sample contamination of metals associated with sediment from the floor of the lake. However, elevated concentrations of total iron and manganese were largely driven by the elevated dissolved components, may be due to anoxic conditions at the bottom of the lakes. Peak concentrations of ammonia, iron, and manganese observed in samples collected from the lake bottom indicate lakes were stratified during winter and early spring and were well-mixed in the summer open water months.

The most frequently observed guideline exceedances were for total zinc and dissolved manganese. Guideline exceedances were geographically controlled, varying by catchment and by distance from the Blackwater deposit. Guideline exceedances were more frequently observed in the lakes located in the headwaters of the Creek 705 watershed to the east of the Project (Lake 1538 and Lake 1428).

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GLOSSARY AND ABBREVIATIONS

5-in-30	Five samples collected in a 30-day period; i.e., weekly sampling
ALS	ALS Environmental Services
Application/EIS	Application for an Environmental Certificate/Environmental Impact Study
Artemis	Artemis Gold Inc.
BC	British Columbia
CaCO ₃	Calcium carbonate
CCME	Canadian Council of Ministers of the Environment
Conductivity	Specific conductivity (i.e., conductivity at 25 °C)
COPC	Chemical of potential concern
CSFNs	Carrier Sekani First Nations (CSFNs)
CU	Colour unit
DO	Dissolved oxygen
DOC	Dissolved organic carbon
EAC	Environmental Assessment Certificate #M19-01
ENV	Ministry of Environment and Climate Change Strategy
FSR	Forest Service Road
ha	Hectare(s)
IFN	Instream Flow Needs
km	Kilometre(s)
LSA	Local Study Area
m	Metre(s)
masl	Metre(s) above sea level
MDL	Method detection limit
mg/L	Milligram(s) per litre
MOE	Ministry of Environment
N	Nitrogen
NTU	Nephelometric turbidity unit

P	Phosphorus
Project	Blackwater Gold Project
QA/QC	Quality Assurance/Quality Control
RPD	Relative percent difference
SCN	Thiocyanate
t	Tonnes
TDS	Total dissolved solids
TKN	Total Kjeldahl nitrogen
TOC	Total organic carbon
TSF	Tailings Storage Facility
TSS	Total suspended solids
WAD	Weak Acid Dissociable
YDWL	Yinka Dene Water Law

1. INTRODUCTION

The Blackwater Gold Project (the Project) surface water quality baseline program, initiated in 2011, has continued through 2020 with a key objective of characterizing the spatial and temporal pre-development conditions of surface water quality in the proposed Project area. This information is needed to support:

- relevant aspects of Project design, such that mitigation strategies to minimize potential effects on water quality can be incorporated into Project design where feasible;
- development of related environmental management plans for *Mines Act* and *Environmental Management Act* permitting;
- predictive surface water quality modelling and assessment; and
- future identification of any changes resulting from proposed Project activities through monitoring programs.

This report presents the cumulative results of the surface water quality baseline program, including data collected up to the end of November 2020. The report is organized as follows:

1. Introductory information related to the Project and study area (Sections 1 and 2);
2. Details of the surface water quality site selection, the sampling program, and the methodologies used (Section 3);
3. Results of the surface water quality baseline program (Section 4); and
4. Conclusions and recommendations (Section 5).

1.1 Project Overview

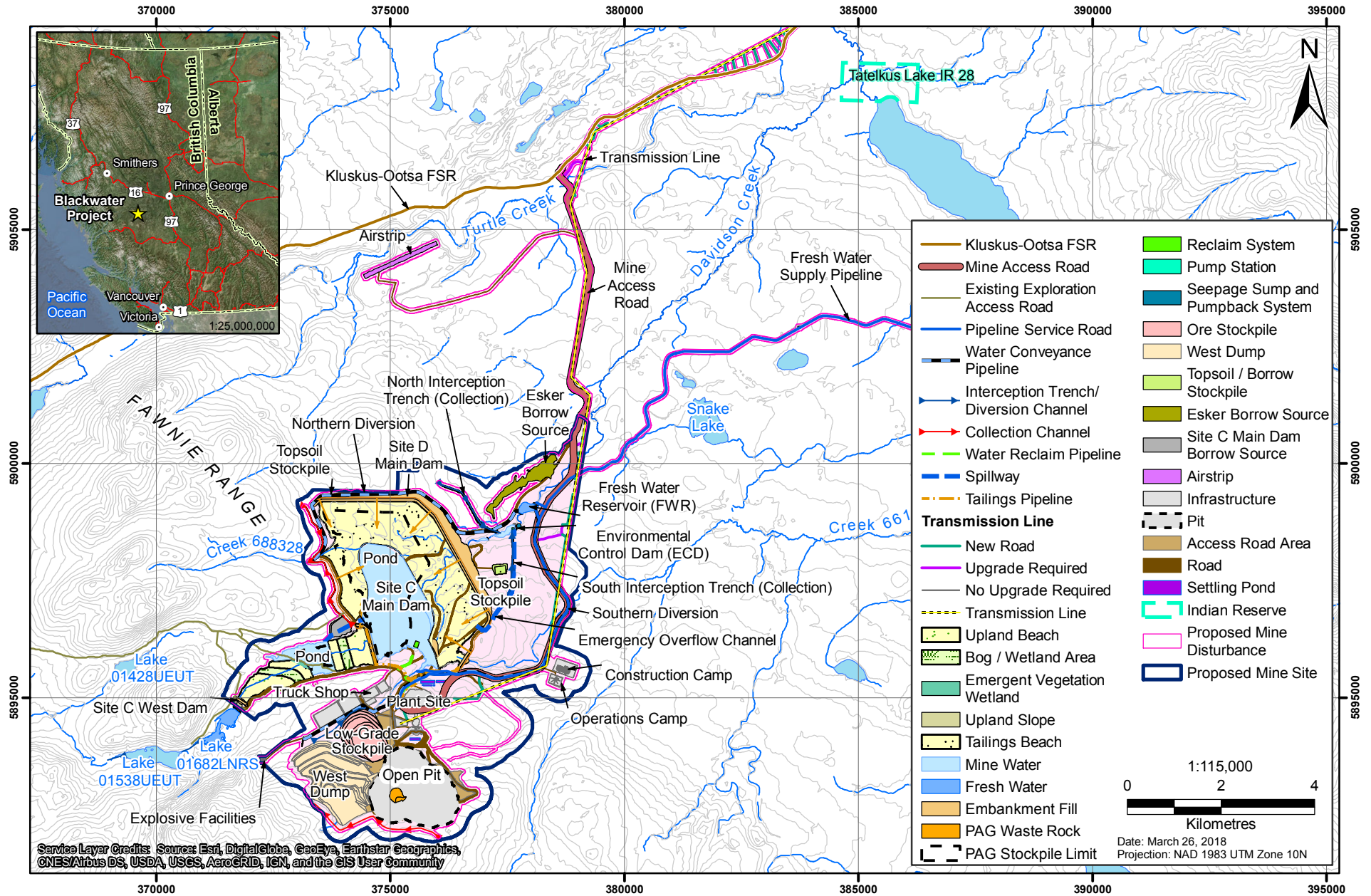
BW Gold Ltd (BW Gold), a wholly owned subsidiary of Artemis Gold Inc. (Artemis Gold), is the proponent for the proposed Project, an open pit gold and silver mine and associated ore processing facilities. The proposed Project layout and location is presented in Figure 1.1-1.

The Project is located on the Nechako Plateau, part of the Interior Plateau and near the geographic centre of British Columbia (BC), approximately 110 kilometres (km) southwest of Vanderhoof and approximately 160 km southwest of Prince George. Topographic relief for the plateau is moderate with elevations ranging from 1,000 metres above sea level (masl) to 1,800 masl.

The site can be accessed by vehicle from the Kluskus Forest Service Road (FSR) that originates approximately 10 km west of Vanderhoof, off Highway 16 (Yellowhead Highway). At km 146.5 on the Kluskus FSR, an 18 km mine road provides direct access to the Project site and exploration camp.

The Project underwent a joint provincial/federal environmental assessment following the submission of an Application for an Environmental Certificate/Environmental Impact Study (Application/EIS; October 2015). The Project received a Federal Decision Statement under the *Canadian Environmental Assessment Act* on April 15, 2019 and received Environmental Assessment Certificate (EAC) #M19-01 under the *BC Environmental Assessment Act* on June 21, 2019.

Figure 1.1-1
Blackwater Gold Project Layout and Location



1.2 Baseline Program Overview and Objectives

The objective of the baseline study is to characterize the spatial and temporal background conditions of water quality within the vicinity of the proposed Project. Surface water quality baseline information has been collected from Project-related watercourses since 2011. A total of 26 stream and river sampling sites and six lake sites in seven watersheds have been sampled from 2011 to 2020. The frequency and location of sampling has changed over time to reflect updated Project designs, to meet specific Project objectives, and in consultation with regulators, First Nations, and other stakeholders.

This report is a cumulative report including all data collected from surface water quality monitoring sites from 2011 to 2020, with detailed analysis including summary statistics and comparisons to water quality guidelines. All cumulative data are appended to the report (Appendices B and D). Surface water quality data for the Project was previously reported in the *Blackwater Gold Project 2013 Baseline Report: Water and Sediment Quality* (AMEC 2013) and the *Blackwater Gold Project: 2011 to 2017 Baseline Water Quality Report* (ERM 2018).

The surface water quality monitoring program for the Project has been designed with the objective of providing adequate baseline characterization to support provincial effluent discharge permitting in consideration of the following factors:

- Guidance provided by the BC Ministry of Environment and Climate Change Strategy (ENV) for development of water baseline monitoring programs, as per the *Water and Air Baseline Monitoring Guidance Document for Mine Proponents and Operators* (ENV 2016a).
- EAC #M19-01 Condition 27 which requires characterization of water quality baseline for monitoring effects in:
 - Tatelkuz Lake;
 - Davidson Creek;
 - Chedakuz Creek at a location where Chedakuz Creek would be expected to be affected by mine effluent discharge into Davidson Creek; and
 - a location downstream where no further effects on water quality from the Project are predicted.
- EAC #M19-01 Condition 27 requires a description of the water quality baseline available for the aforementioned waterbodies. The description must include the locations, frequency and duration of sampling, and include consideration of Yinka Dene Water Law (YDWL), any other Aboriginal Group's water policies made available to the Holder, and guidance from ENV. The YDWL includes the *Yinka Dene 'Uza'hné Surface Water Management Policy* (Nadleh Whut'en and Stelat'en 2016a) and the *Yinka Dene 'Uza'hné Guide to Surface Water Quality Standards* (Nadleh Whut'en and Stelat'en 2016b).
- EAC #M19-01 Condition 27 requires a comparison of site-specific water quality metrics or standards developed by Aboriginal Groups under their own Aboriginal water policies to the modelled water quality at a point on Chedakuz Creek where water received from Davidson Creek is fully mixed into Chedakuz Creek.

1.3 Yinka Dene Water Law

BW Gold has been collaborating with the CSFNs in regards to implementation of the YDWL. The YDWL describes a system that classifies waters into three categories based on their cultural and ecological significance, including:

- High Cultural or Ecological Significance (Class I Waters);
- Sensitive Waters (Class II Waters); and
- Typical Waters (Class III Waters).

Baseline characterization requirements for implementation of the *Yinka Dene 'Uza'hné Surface Water Management Policy* (Nadleh Whut'en and Stelat'en 2016a), include sampling frequency recommendations provided by Carrier Sekani First Nations (CSFN) representatives to be completed over a period of three years:

- Monthly samples; and
- 5-in-30 samples (i.e., five samples collected over a period of 30 days, or weekly sampling) collected twice a year during one calendar year.

2. STUDY AREA

The Project is located on the Nechako Plateau in the Nechako River watershed within the Fraser River drainage. The Blackwater deposit is located on the north slope of Mount Davidson, in the headwaters of the Davidson Creek watershed. Davidson Creek flows northeast from the Project site towards Chedakuz Creek, the confluence of the two creeks being approximately 800 m downstream of Tatelkuz Lake.

The Local Study Area (LSA) developed for the Application/EIS includes the entire watersheds of Davidson Creek, Creek 661, Turtle Creek, and Creek 705 (AMEC 2014). Also included in the study area is lower Chedakuz Creek, from the confluence with Creek 661 to the confluence with Turtle Creek, including Tatelkuz Lake. Water quality sampling has also been conducted in Fawnie Creek, and in the Blackwater River downstream of the Project site at the request of ENV.

Waterbodies sampled during surface water quality baseline studies are discussed in the following sections, and placed in context with the proposed Project and in consideration of the YDWL. Waterbody descriptions are sourced from AMEC (2013) and EAC #M19-01 Schedule A.

2.1 Stream Water Quality

Stream water quality sampling was conducted within the watersheds of Creek 661, Davidson Creek, Turtle Creek, and Chedakuz Creek in the western area of the Project; in the Creek 705 watershed and Fawnie Creek to the east of the Project area; and in the Blackwater River watershed south of the Project area.

2.1.1 Creek 661

The Creek 661 watershed is a sub-watershed of the Chedakuz Creek watershed, draining into Chedakuz Creek upstream of Tatelkuz Lake. Creek 661 is a third order stream with two branches originating east of the Project site. A tributary to Creek 661 is located within the footprint of mining facilities, including a portion of the proposed open pit (Figure 1.1-1). Creek 661 has been preliminary classified as a Class III waterbody for the purposes of the YDWL (Sinclair, MacDonald, and Schein 2017).

2.1.2 Davidson Creek

The Davidson Creek watershed is a sub-watershed of the Chedakuz Creek watershed. Davidson Creek is a third order stream draining the Blackwater property, flowing northeast into Chedakuz Creek north of Tatelkuz Lake. Davidson Creek contains the majority of Project facilities, including the Tailings Storage Facility (TSF) and related mine site water management structures. Project discharges, including water treatment plant effluent, will discharge into upper Davidson Creek during multiple Project phases. Runoff from the extreme upper extents of this watershed will be permanently diverted to the Creek 705 watershed as part of proposed TSF construction. During mining operations, water from Tatelkuz Lake will be used to provide Instream Flow Needs (IFN) in Davidson Creek. SFN asserts that the lower reaches of Davidson Creek are within SFN's traditional territory and thus the lower reaches of the stream have been classified as a Class III waterbody for the purposes of the YDWL (Sinclair, MacDonald, and Schein 2017).

2.1.3 Turtle Creek

The Turtle Creek watershed is a sub-watershed of the Chedakuz Creek watershed. Turtle Creek is a third order stream north of Davidson Creek. It originates east of Top Lake, the headwaters of Fawnie Creek. Turtle Creek enters Chedakuz Creek approximately 2 km downstream of the Davidson Creek confluence in a wetland area. No mining facilities are located in this watershed; however, limited portions of the proposed mine access road and transmission line will be located within the Turtle Creek watershed. Turtle Creek has been preliminary classified as a Class III waterbody for the purposes of the YDWL (Sinclair, MacDonald, and Schein 2017).

2.1.4 Chedakuz Creek

Chedakuz Creek is a third to fourth order stream that originates above Kuyakuz Lake and flows approximately northwest to the Nechako Reservoir. Upper Chedakuz Creek is approximately 15 km long and flows into Kuyakuz Lake. Middle Chedakuz Creek is approximately 12 km long and flows between Kuyakuz and Tatelkuz lakes. Downstream of Tatelkuz Lake, Chedakuz Creek flows northwest to the Nechako Reservoir for approximately 53 km. The Creek 661, Davidson Creek, and Turtle Creek watersheds, with associated mining infrastructure, are all contained within the Chedakuz Creek watershed. Chedakuz Creek is classified as a Class II waterbody for the purposes of the YDWL (Sinclair, MacDonald, and Schein 2017).

2.1.5 Creek 705

The Creek 705 watershed is a sub-watershed of the Fawnie Creek watershed. Creek 705 is a third order stream on the western side of Mount Davidson, flowing into Fawnie Creek approximately 8 km downstream of Top Lake. Creek 705 contains a moderately-sized lake (Lake 1538) near the headwaters of the southern drainage, and receives runoff from a number of small tributaries in the middle to upper watershed. The main northern basin in the upper part of the watershed is drained by Creek 606013 through a headwater lake (Lake 1428). Creek 705 has not received a YDWL classification.

2.1.6 Fawnie Creek

Fawnie Creek is located approximately 10 km northwest of the Blackwater deposit. The creek flows southwest to join the Entiako River, which flows into the Nechako Reservoir. Fawnie Creek was sampled as a reference stream for aquatic resources monitoring (ERM 2018a); no Project infrastructure or mining facilities are located in the Fawnie Creek watershed. Fawnie Creek has not received a YDWL classification.

2.1.7 Blackwater River

The Blackwater River originates in the Ilgachuz Range northwest of Quesnel, flowing approximately 280 km to the Fraser River, and marks the southern boundary of the Nechako Plateau (BC 2018). The Blackwater River is located to the south of the Project, outside of the Regional Study Area (RSA) established in the Application/EIS. Two sites in the Blackwater River watershed were sampled in 2012 at the request of ENV (AMEC 2013), and are included in this report as regional reference sites.

2.2 Lake Water Quality

Six lakes in the Project study area were included in the surface water quality baseline program.

2.2.1 Kuyakuz Lake

Kuyakuz Lake is located approximately 20 km southeast of the Project. The lake has a surface area of 820 ha, a volume of 63 Mm³, and a mean depth of 7.7 m, and provides spawning and overwintering habitat for fish. Kuyakuz Lake has not received a YDWL classification.

2.2.2 Tatelkuz Lake

Tatelkuz Lake is the second largest lake near the headwaters of Chedakuz Creek. It has a surface area of 927 ha, a volume of 188 Mm³, and a mean depth of 20 m. The lake is categorized by exposed cobble and sandy beaches, and by a forested shoreline. Tatelkuz Lake has six inlets and one outlet, and numerous fish were observed inhabiting the lake. Tatelkuz Lake has been classified as a Class I waterbody for the purposes of the YDWL (Sinclair, MacDonald, and Schein 2017).

2.2.3 Snake Lake

Snake Lake is located approximately 10 km northeast of the centre of the Project. The outlet stream feeds into Davidson Creek about halfway along its length. The lake is slightly more than 10 m deep at its deepest point. Snake Lake has not received a YDWL classification.

2.2.4 Lake 1682

Lake 1682 is the headwater lake of Davidson Creek. It has one circular basin with the deepest portion of the lake located in the centre. The basin has shallow slopes creating a large littoral area. The lake does not have any inlets, but it has one outlet to Davidson Creek exiting at the north end. Lake 1682 has not received a YDWL classification.

2.2.5 Lake 1538

Lake 1538 is a moderately-sized lake near the headwaters of the southern tributary of Creek 705. It has two distinct basins oriented east-west. The smaller, western basin is less than 9 m deep and has a large littoral area at the western end near the lake outlet. There is also one inlet tributary, classified as a non-continuous drainage, which enters the western basin.

The eastern basin of Lake 1538 is deeper and larger than the western basin. There are two inlet tributaries flowing into the lake at its eastern end. The steepest gradients in Lake 1538 are located in the eastern basin on the north and south shorelines. Lake 1538 has not received a YDWL classification.

2.2.6 Lake 1428

Lake 1428 is a headwater lake of Creek 705. It has one large main basin with a small, shallow bay branching off at the northeastern end of the lake. The main basin is deepest near the middle and has steep gradients along the northern shoreline. The southeastern end of the lake is shallow with depths less than 4 m. The small bay is less than 2 m deep and extends into a large wetland area. Lake 1428 has a single inlet tributary and a single outlet. The inlet tributary flows in from the northeast and the outlet discharges to Creek 705 to the southwest. Lake 1428 has a maximum depth of 7.6 m, and a mean depth of 3.09 m. Lake 1428 has not received a YDWL classification.

3. METHODOLOGY

3.1 Study Design

Existing surface water quality in the Project area represents baseline, pre-Project development data. The baseline water quality program focussed on the watercourses that could potentially be affected by future mining development and operation. While baseline data have been collected from streams and lakes in multiple watersheds across the Project area, data collected since the Application/EIS focussed particularly on watersheds that are expected to receive Project-related flows: Davidson Creek, Chedakuz Creek, Tatelkuz Lake, Creek 661, Creek 705. Sampling frequency and density since the Application/EIS was greatest in the watercourses identified in EAC #M19-01 Condition 27: Davidson Creek and Chedakuz Creek, including the Tatelkuz Lake outflow. Sampling frequency at these locations followed the requirement in the BC Water and Air Baseline Monitoring Guidance (ENV 2016a):

“Minimum of monthly sampling for a period of two years is recommended, and more is preferred to assess trends and seasonal variation. To determine water quality guideline (WQG) or water quality objective (WQO) attainment, 5 samples in 30 days during critical flows (high and/or low) or biologically relevant periods are necessary. To assess inter-annual variation, or to prepare WQOs or science-based environmental benchmarks (SBEBs), multiple years of water quality data are required.”

and the requirements in the YDWL:

“Include collection of data on the physical, chemical, and biological characteristics of the water body (ies) under consideration for a period of not less than three years, including, at minimum, monthly sampling and two 5-in-30-day sampling events at each station each year.”

Monthly with weekly (5-in-30-day) samplings in May/June and August/September were carried out at potential YDWL attainment sites in 2020 and were continued in 2021 to meet the requirements in the YDWL.

Twenty-six stream and river sampling sites and six lake sites spanning seven watersheds were included in the 2011 to 2020 water quality program (Figure 3.1-1). Seventeen of those sites were sampled in 2020 at frequencies ranging from quarterly to monthly, and weekly during freshet (May/June) and summer low flow (August/September; Table 3.1-1).

To characterize water quality during the most variable periods of the year (freshet and summer low flow), to support development of effluent permit limits for proposed water treatment plant discharges to Davidson Creek and to meet YDWL sampling frequency recommendations at potential attainment sites, weekly (5-in-30) sampling was conducted at several sites on Davidson and Chedakuz creeks sites in recent years. Concordance of the YDWL baseline sampling requirements for the potential attainment sites is provided in Table 3.1-2. In cases where YDWL baseline sampling requirements were not met at the end of 2020, additional sampling at the potential attainment sites completed in 2021 and planned for 2022 is indicated in Table 3.1-2.

Historical freshet sampling was also conducted at sites in the Turtle Creek, Creek 661, and Creek 705 watersheds in 2011 through 2013. A summary of sampling frequency for all water quality monitoring sites is provided in Table 3.1-3.

3.2 Sampling

3.2.1 Stream Water Quality

Stream sampling was conducted by Avison Management Services Ltd., based in Vanderhoof, BC. Sampling was performed in accordance with the BC Field Sampling Manual (ENV 2013). A single stream water quality sample was collected at each site. Duplicate samples were collected at approximately 10% of the sites during each sampling trip (Section 3.4). Samples were collected in clean, pre-labelled bottles shipped from ALS Environmental Services (ALS) in Burnaby, BC.

Historically, water samples were collected by submerging individual parameter bottles and then adding preservatives as required. In 2019, procedures were updated based on the ALS recommendation that pre-charged bottles (i.e., bottles shipped from the lab containing the required preservative, rather than separate preservative vials) should be used for the surface water quality monitoring program. The update was intended to reduce wasted packaging and the potential for field contamination of samples. Beginning in January 2019, field personnel wore vinyl gloves instead of nitrile gloves while collecting water samples as recommended by ALS to reduce potential for trace metal contamination. Water samples were collected while facing upstream by submerging the general parameters bottle until it was almost full. Individual parameter bottles were filled from the general parameters bottle. Samples for total and dissolved metals and mercury analyses were preserved upon arrival at the laboratory rather than in the field, as recommended by ALS. Other bottles requiring field preservation were collected in bottles that had been pre-charged with preservatives by the lab. Dissolved parameter samples were filtered in the field.

Where safe wading conditions existed, water samples were collected mid-stream; however, samples were collected from the stream bank when increased stream flow was a safety concern. At these sites, care was used to avoid back eddies and areas of turbulence that could have elevated levels of suspended material. Sites adjacent to bridges were sampled upstream of the bridge if conditions (e.g., ice) allowed.

After collection, samples were stored in a dark, cool place until shipment to the laboratory for analysis. Table 3.2-1 summarizes the sample container, preservation and handling requirements for water quality samples. From 2011 to 2014, samples were shipped to AMEC Environmental & Infrastructure (AMEC) assay lab in Edmonton, Alberta. From 2016 onwards, samples were shipped to ALS in Burnaby, BC. *In situ* measurements of temperature, pH, conductivity, specific conductivity, and dissolved oxygen (DO) were collected in the field, most recently using a handheld multi-sensor YSI Professional Pro+ during each site visit. Field data are reported in Appendix B-2.

3.2.2 Lake Water Quality

Six lakes in the Project area were sampled quarterly in 2012 and 2014 and annually in 2013 (Table 3.1-2). No lake sample was taken during 2016 to 2017. Quarterly sampling at Lake 1682 was reinitiated in 2018 and continued to 2020.

Lake sampling was conducted by boat in open water months, and through ice when lakes were frozen; lakes were not sampled during late fall or early spring due to unsafe ice conditions.

Lake sampling locations were selected based on detailed bathymetric surveys, where available, otherwise spot surveys and local knowledge were used. Where lakes were greater than 10 m deep, samples were typically collected at the surface, middle, and bottom. Where lakes were less than 10 m deep, samples were typically collected at two depths (surface and bottom). The exceptions were in July, September, and December 2014, when one sample was collected from the middle of each sampled lake. Quarterly samples at Lake 1682 were collected at the surface (1.0 m depth) from 2018 onwards.

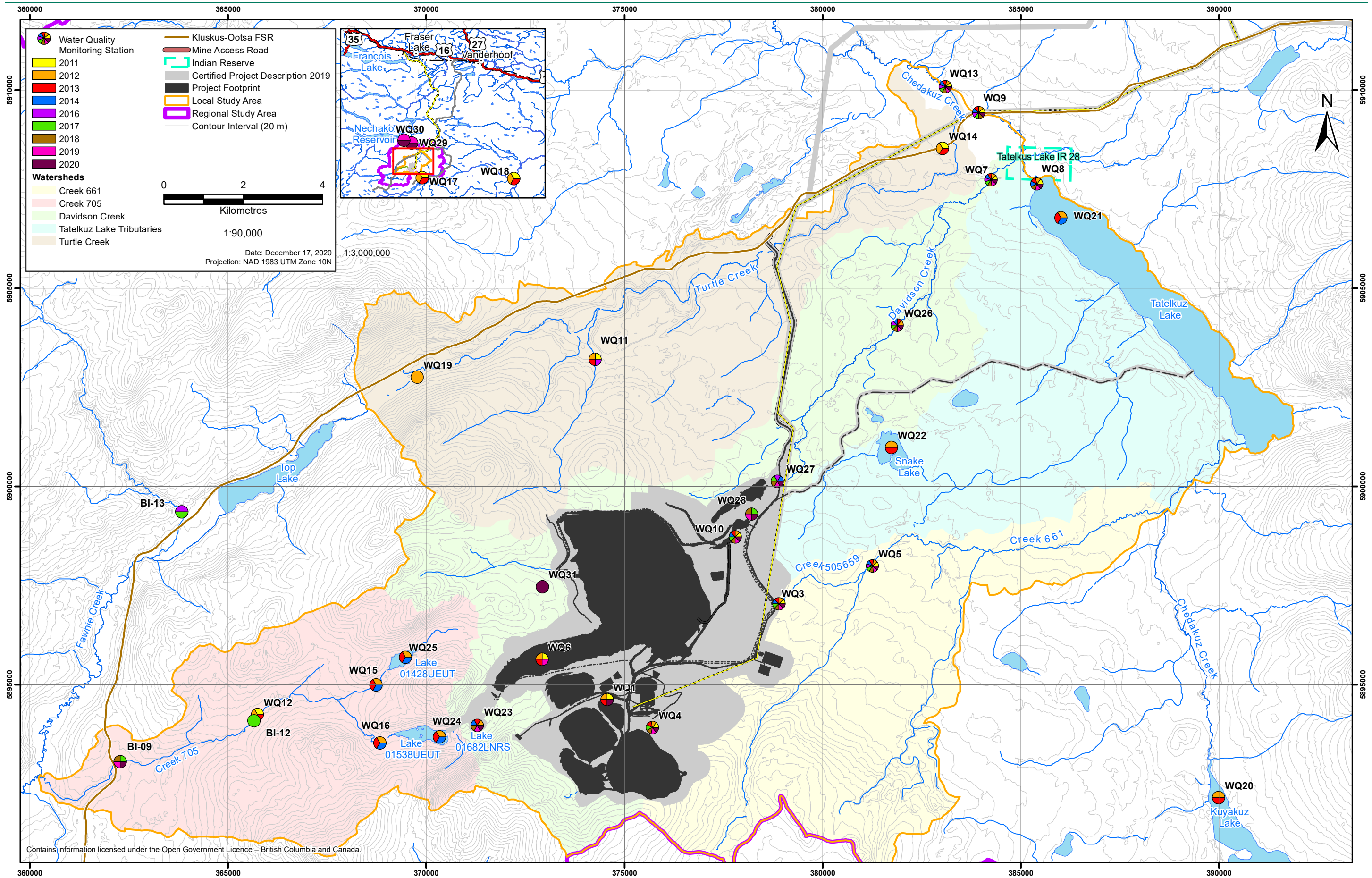


Figure 3.1-1: Water Quality Sampling Locations 2011 to 2020, Blackwater Gold Project

Table 3.1-1: Baseline Surface Water Quality Sampling Sites, Blackwater Gold Project, 2011 to 2020

Watershed	Site ID	GPS Coordinates		Rationale	Sampling History	Current Status	Sampling Frequency (2020)		
		Easting	Northing				Quarterly	Monthly	Weekly
Streams									
Creek 661	WQ4	375706	5893917	Near-field monitoring site in Creek 661 headwaters, near footprint of proposed open pit.	2011 - 2013, 2017 - 2020	Active	x		
	WQ3	378894	5897037	Near-field monitoring site on Creek 505659, potential receiving environment for seepage from pit lake and TSF.	2011 - 2014, 2017 - 2020	Active	x		
	WQ5	381255	5897993	Near-field monitoring site on Creek 661, potential receiving environment for seepage from pit lake and TSF.	2011 - 2014, 2016 - 2020	Active	x		
Davidson Creek	WQ1	374561	5894621	Near-field monitoring site on Davidson Creek tributary, drains the Blackwater deposit. No sample between 2014 and 2019. Sampling reinitiated in 2020.	2011 - 2013, 2020	Active	x		
	WQ6	372920	5895640	Near-field monitoring site in Davidson Creek headwaters, under footprint of proposed TSF. Sampling discontinued in 2014.	2011 - 2013	Discontinued			
	WQ31	374982	5898047	Near-field monitoring site on Davidson Creek northern tributary that could carry non-contact flows under an optional smaller Project footprint. Established in 2020.	2020	Active		x	
	WQ10	377795	5898723	Near-field monitoring site on Davidson Creek, site of proposed Environmental Control Dam.	2011 - 2014, 2017 - 2020	Active		x	x
	WQ28	378206	5899299	Near-field monitoring site on Davidson Creek, immediately downstream of proposed FWR and plunge pool. Established in 2017 as a potential compliance point for proposed WTP discharges.	2017 - 2020	Active	x	x	
	WQ27	378855	5900126	Near-field monitoring site on Davidson Creek at Mine Access Road crossing, 1.5 km downstream of proposed FWR and plunge pool. Established in 2014 and discontinued in May 2020.	2014, 2016 - 2020	Active		x	
	WQ26	381880	5904065	Mid-field monitoring site on Davidson Creek. Established in 2013.	2013, 2016 - 2020	Active	x	x	
	WQ7	384244	5907733	Mid-field monitoring site on lower Davidson Creek, upstream of confluence with Chedakuz Creek.	2011 - 2014, 2016 - 2020	Active		x	x
Turtle Creek	WQ19	369772	5902753	Upstream reference site in Turtle Creek headwaters. Sampled in 2012 only.	2012	Discontinued			
	WQ11	374261	5903206	Near-field monitoring site on Turtle Creek tributary Creek 700. Discontinued in 2017 after 4 years of baseline sampling.	2011 - 2013, 2016	Discontinued			

Watershed	Site ID	GPS Coordinates		Rationale	Sampling History	Current Status	Sampling Frequency (2020)		
		Easting	Northing				Quarterly	Monthly	Weekly
Streams (cont'd)									
Turtle Creek (cont'd)	WQ14	383023	5908521	Mid-field monitoring site on Turtle Creek, downstream of proposed airstrip, upstream of confluence with Chedakuz Creek. Discontinued in 2014 after 3 years of baseline sampling.	2011 - 2013	Discontinued			
Chedakuz Creek	WQ8	385401	5907627	Tatelkuz Lake outlet, inlet to Chedakuz Creek, potential receiving environment for seepage from pit lake and TSF. Upstream of confluence with Davidson Creek.	2011 - 2014, 2017 - 2020	Active		x	
	WQ9	383937	5909423	Mid-field monitoring site on Chedakuz Creek, downstream of Davidson Creek confluence. This site would be expected to be affected by mine effluent discharge into Davidson Creek and seepage from pit lake and TSF.	2011 - 2014, 2016 - 2020	Active		x	x
	WQ13	383097	5910077	Far-field monitoring site on Chedakuz Creek, downstream of Turtle Creek confluence. This site would be expected to be affected by mine effluent discharge into Davidson Creek and seepage from pit lake and TSF.	2011 - 2013, 2017 - 2020	Active		x	x
	WQ29	375187	5916462	Far-field monitoring site on Chedakuz Creek, downstream of private properties. Established in 2019 in consultation with CSFNs as a potential site to meet EAC Condition 27 where no further effects on water quality from the project are predicted.	2019 - 2020	Active		x	x
	WQ30	368695	5918685	Far-field monitoring site on Chedakuz Creek, upstream of confluence with Nechako Reservoir. Established in 2019 in consultation with CSFNs as a potential site to meet EAC Condition 27 where no further effects on water quality from the project are predicted.	2019 - 2020	Active		x	x
Creek 705	WQ15	368733	5894989	Near-field monitoring site on Creek 705 tributary. Discontinued in 2015 after 3 years of baseline sampling.	2012 - 2014	Discontinued			
	WQ16	368830	5893529	Near-field monitoring site on Creek 705 tributary. Discontinued in 2015 after 3 years of baseline sampling.	2012 - 2014	Discontinued			
	WQ12	365740	5894247	Mid-field monitoring site in mid-Creek 705. Replaced in 2017 by BI-12. Data collected at WQ12 and BI-12 were considered as BI-12.	2011 - 2013	Discontinued			
	BI-12	365653	5894088	Aquatic resources monitoring test site in mid-Creek 705, sampled in 2017 only.	2017	Discontinued			

Watershed	Site ID	GPS Coordinates		Rationale	Sampling History	Current Status	Sampling Frequency (2020)		
		Easting	Northing				Quarterly	Monthly	Weekly
Streams (cont'd)									
Creek 705 (cont'd)	BI-09	362275	5893055	Aquatic resources monitoring test site in lower Creek 705, established in 2017.	2017 - 2020	Active	x		
Fawnie Creek	BI-13	363830	5899354	Aquatic resources monitoring reference site on Fawnie Creek, sampled in 2016 and 2017 as part of aquatic studies.	2016 - 2017	Discontinued			
Blackwater River	WQ17	384018	5887266	Reference site on Blackwater River tributary. Requested by ENV for comparison with Project drainages, discontinued in 2014 after 3 years of sampling.	2011 - 2013	Discontinued			
	WQ18	460975	5886484	Reference site on Blackwater River. Requested by ENV for comparison with Project drainages, discontinued in 2014 after 3 years of sampling.	2011 - 2013	Discontinued			
<i>Total Number of Stream Sites</i>			26						
Lakes									
Kuyakuz Lake	WQ20	389988	5892147	Early optional source of make-up water for Davidson Creek. Discontinued in 2014 after 2 years of sampling.	2012 - 2013	Discontinued			
Tatelkuz Lake	WQ21	386010	5906768	Source of make-up water for Davidson Creek. Receive seepage from TSF spillway. Discontinued in 2015 after 3 years of sampling.	2012 - 2014	Discontinued			
Snake Lake	WQ22	381736	5900978	Potential source of Post-Closure low flow water for Davidson Creek. Discontinued in 2014 after 2 years sampling.	2012 - 2013	Discontinued			
Lakes (cont'd)									
Lake 1682	WQ23	371286	5893967	Near-field monitoring site, proximal to TSF saddle dam. Davidson Creek headwaters, will potentially be diverted to Creek 705 drainage.	2012 - 2014, 2018 - 2020	Active	x		
Lake 1538	WQ24	370330	5893677	Near-field monitoring site, proximal to TSF saddle dam and Creek 705 headwater lake. Discontinued in 2015 after 3 years of sampling.	2012 - 2014	Discontinued			
Lake 1428	WQ25	369473	5895688	Near-field monitoring site, proximal to TSF saddle dam. Creek 705 headwater lake. Discontinued in 2015 after 3 years of sampling.	2012 - 2014	Discontinued			
<i>Total Number of Lake Sites</i>			6						

Table 3.1-2: Concordance of Yinka Dene Water Law Baseline Sampling Requirements for Potential Attainment Sites

Station	Location	Monthly Sampling	Weekly Sampling	Notes
WQ9	Chedakuz Creek, downstream of Davidson Creek confluence	<ul style="list-style-type: none"> ■ 2011: Monthly (May-Dec) ■ 2012: Monthly (Jan-Dec) ■ 2013: Monthly (Jan-Jun) ■ 2014: Monthly (Apr-Dec) ■ 2016: Monthly (Sep) ■ 2017: Monthly (Apr-Dec) ■ 2018: Monthly (Jan-May, Jul-Dec) ■ 2019: Monthly (Jan-Dec) ■ 2020: Monthly (Jan-Dec) 	<ul style="list-style-type: none"> ■ 2011: 5-in-30 (May/Jun) ■ 2012: 5-in-30 (May/Jun) ■ 2013: 5-in-30 (May/Jun) ■ 2016: 5-in-30 (Aug) ■ 2020: 5-in-30 (May/Jun, Aug) 	<ul style="list-style-type: none"> ■ Monthly sampling was completed Jan-Dec 2021 ■ 5-in-30 sampling was completed in Oct 2021 ■ Monthly sampling is planned Jan-Dec 2022 ■ 5-in-30 sampling is planned for freshet and fall 2022
WQ13	Chedakuz Creek, downstream of Turtle Creek confluence	<ul style="list-style-type: none"> ■ 2011: Monthly (Apr-Dec) ■ 2012: Monthly (Jan-Nov) ■ 2013: Monthly (Jan) ■ 2014: Monthly (Apr-Dec) ■ 2017: Monthly (Apr-Dec) ■ 2018: Monthly (Jan-May, Jul-Dec) ■ 2019: Monthly (Jan-Dec) ■ 2020: Monthly (Jan-Dec) 	<ul style="list-style-type: none"> ■ 2011: 5-in-30 (May/Jun) ■ 2012: 5-in-30 (May/Jun) ■ 2013: 5-in-30 (May/Jun) ■ 2020: 5-in-30 (May/Jun, Aug) 	<ul style="list-style-type: none"> ■ Monthly sampling was completed Jan-Dec 2021 ■ 5-in-30 sampling was completed in Oct 2021 ■ Monthly sampling is planned Jan-Dec 2022 ■ 5-in-30 sampling is planned for freshet and fall 2022
WQ29	Chedakuz Creek, downstream of private properties.	<ul style="list-style-type: none"> ■ 2019: Quarterly (Feb, May, Aug, Nov) ■ 2020: Monthly (Jan-Dec) 	<ul style="list-style-type: none"> ■ 2020: 5-in-30 (May/Jun, Aug) 	<ul style="list-style-type: none"> ■ Monthly sampling was completed Jan-Dec 2021 ■ 5-in-30 sampling was completed in Oct 2021 ■ Monthly sampling is planned Jan-Dec 2022 ■ 5-in-30 sampling is planned for freshet and fall 2022
WQ30	Chedakuz Creek, upstream of confluence with Nechako Reservoir	<ul style="list-style-type: none"> ■ 2019: Quarterly (Feb, May, Aug, Nov) ■ 2020: Monthly (Jan-Dec) 	<ul style="list-style-type: none"> ■ 2020: 5-in-30 (May/Jun, Aug) 	<ul style="list-style-type: none"> ■ Monthly sampling was completed Jan-Dec 2021 ■ 5-in-30 sampling was completed in Oct 2021 ■ Monthly sampling is planned Jan-Dec 2022 ■ 5-in-30 sampling is planned for freshet and fall 2022

Note

Bolded text indicates meets one year of Yinka Dene Water Law baseline requirements.

Table 3.1-3: Baseline Surface Water Quality Sampling Frequency per Month, Blackwater Gold Project, 2011 to 2020

Watershed	Station ID	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Streams											
Creek 661	WQ3	Monthly (May-Dec) 5-in-30 (May/Jun)	Monthly (Jan-Dec) 5-in-30 (May/Jun)	Monthly (Jan-Jun) 5-in-30 (May/Jun)	Monthly (Apr-Dec)	-	-	Quarterly (May, Jul, Oct)	Quarterly (Feb, May, Aug, Nov)	Quarterly (Feb, May, Aug, Nov)	Quarterly (Feb, May, Aug, Nov)
	WQ4	Monthly (May-Nov) 5-in-30 (May/Jun)	Monthly (May-Dec) 5-in-30 (May/Jun)	5-in-30 (May/Jun)	-	-	-	Quarterly (May, Jul, Oct)	Quarterly (Feb, May, Aug, Nov)	Quarterly (Feb, May, Aug, Nov)	Quarterly (Feb, May, Aug, Nov)
	WQ5	Monthly (May-Dec) 5-in-30 (May/Jun)	Monthly (May-Nov) 5-in-30 (May/Jun)	Monthly (Jan-Apr) 5-in-30 (May/Jun)	Monthly (Apr-Dec)	-	Monthly (Sep) 5-in-30 (Aug)	Quarterly (May, Jul, Oct)	Quarterly (Feb, May, Aug, Nov)	Quarterly (Feb, May, Aug, Nov)	Quarterly (Feb, May, Aug, Nov)
Davidson Creek	WQ1	Monthly (May-Dec) 5-in-30 (May/Jun)	Monthly (May-Dec) 5-in-30 (May/Jun)	5-in-30 (May/Jun)	-	-	-	-	-	-	Quarterly (Feb, May, Aug, Nov)
	WQ10	Monthly (Mar-Dec) 5-in-30 (May/Jun)	Monthly (Jan-Nov) 5-in-30 (May/Jun)	Monthly (Jan-Jun) 5-in-30 (May/Jun)	Monthly (Apr-Dec)	-	-	Monthly (Apr-Dec)	Monthly (Jan-May, Jul-Dec)	Monthly (Jan-Dec)	Monthly (Jan-Dec) 5-in-30 (May/Jun, Aug)
	WQ26	-	-	Monthly (Jan-Jun) 5-in-30 (May/Jun)	-	-	Monthly (Apr, Jun, Sep) 5-in-30 (May, Aug)	Monthly (Apr-Dec) 5-in-30 (May, Sep)	Monthly (Jan-May, Jul-Dec) 5-in-30 (Aug/Sep)	Monthly (Jan-Dec) 5-in-30 (May)	Monthly (Jan-May, Aug, Nov)
	WQ27	-	-	-	Monthly (Apr-Dec)	-	Monthly (Apr, Jun, Sep) 5-in-30 (May, Aug)	Monthly (Apr-Dec) 5-in-30 (May, Sep)	Monthly (Jan-Dec) 5-in-30 (May, Aug/Sep)	Monthly (Jan-Dec) 5-in-30 (May)	Monthly (Jan-Apr)
	WQ28	-	-	-	-	-	-	Monthly (Apr-Dec) 5-in-30 (May, Sep)	Monthly (Jan-Dec) 5-in-30 (May, Aug/Sep)	Monthly (Jan-Dec) 5-in-30 (May)	Monthly (Jan-May, Aug, Nov)
	WQ31	-	-	-	-	-	-	-	-	-	Monthly (Jan-Nov)
	WQ6	Monthly (May-Nov) 5-in-30 (May/Jun)	Monthly (Apr-Dec) 5-in-30 (May/Jun)	Monthly (Jan-Jun) 5-in-30 (May/Jun)	-	-	-	-	-	-	-
WQ7	Monthly (Apr-Dec) 5-in-30 (May/Jun)	Monthly (Jan-Dec) 5-in-30 (May/Jun)	Monthly (Jan-Jun) 5-in-30 (May/Jun)	Monthly (Apr-Dec)	-	Monthly (Sep) 5-in-30 (Aug)	Monthly (Apr-Dec)	Monthly (Jan-May, Jul-Dec)	Monthly (Jan-Dec) 5-in-30 (May)	Monthly (Jan-Dec) 5-in-30 (May/Jun, Aug)	
Turtle Creek	WQ11	Monthly (Mar-Dec) 5-in-30 (May/Jun)	Monthly (May-Nov) 5-in-30 (May/Jun)	Monthly (Jan-Jun) 5-in-30 (May/Jun)	-	-	Monthly (Apr, Jun, Sep) 5-in-30 (May, Aug)	-	-	-	-
	WQ14	Monthly (May-Dec)	Monthly (Jan, Apr-Dec) 5-in-30 (May/Jun)	Monthly (Apr) 5-in-30 (May/Jun)	-	-	-	-	-	-	-
	WQ19	-	Quarterly (Jun, Sep, Dec)	-	-	-	-	-	-	-	-
Chedakuz Creek	WQ13	Monthly (Apr-Dec) 5-in-30 (May/Jun)	Monthly (Jan-Nov) 5-in-30 (May/Jun)	Monthly (Jan) 5-in-30 (May/Jun)	-	-	-	Monthly (Apr-Dec)	Monthly (Jan-May, Jul-Dec)	Monthly (Jan-Dec)	Monthly (Jan-Dec) 5-in-30 (May/Jun, Aug)
	WQ29	-	-	-	-	-	-	-	-	Quarterly (Feb, May, Aug, Nov)	Monthly (Jan-Dec) 5-in-30 (May/Jun, Aug)
	WQ30	-	-	-	-	-	-	-	-	Quarterly (Feb, May, Aug, Nov)	Monthly (Jan-Dec) 5-in-30 (May/Jun, Aug)
	WQ8	Monthly (Apr-Dec) 5-in-30 (May/Jun)	Monthly (Jan-Nov) 5-in-30 (May/Jun)	Monthly (Jan-Jun) 5-in-30 (May/Jun)	Monthly (Apr-Dec)	-	-	Monthly (Apr-Dec)	Monthly (Jan-May, Jul-Dec)	Monthly (Jan-Dec)	Monthly (Jan-Dec)
	WQ9	Monthly (May-Dec) 5-in-30 (May/Jun)	Monthly (Jan-Dec) 5-in-30 (May/Jun)	Monthly (Jan-Jun) 5-in-30 (May/Jun)	Monthly (Apr-Dec)	-	Monthly (Sep) 5-in-30 (Aug)	Monthly (Apr-Dec)	Monthly (Jan-May, Jul-Dec)	Monthly (Jan-Dec)	Monthly (Jan-Dec) 5-in-30 (May/Jun, Aug)

Watershed	Station ID	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Streams (cont'd)											
Creek 705	BI-09	-	-	-	-	-	-	Monthly (Sep)	Monthly (Jan-May, Jul-Dec)	Monthly (Jan-Dec)	Quarterly (Feb, May, Aug, Nov)
	WQ-12/ BI-12	Monthly (Apr-Dec) 5-in-30 (May/Jun)	Monthly (Jan-Nov) 5-in-30 (May/Jun)	Monthly (Jan-Jun) 5-in-30 (May/Jun)	-	-	-	Monthly (Sep)	-	-	-
	WQ15	-	Monthly (Sep-Nov)	Monthly (Jan-Jun) 5-in-30 (May/Jun)	Monthly (Apr-Dec)	-	-	-	-	-	-
	WQ16	-	Monthly (Sep-Nov)	Monthly (Jan-Jun) 5-in-30 (May/Jun)	Monthly (Apr-Dec)	-	-	-	-	-	-
Fawnie Creek	BI-13	-	-	-	-	-	Monthly (Apr, Jun, Sep) 5-in-30 (May, Aug)	Monthly (Sep)	-	-	-
Blackwater River	WQ17	Dec	Quarterly (Mar, Jun, Sep)	Jan	-	-	-	-	-	-	-
	WQ18	Dec	Quarterly (Mar, Jun, Sep)	Jan	-	-	-	-	-	-	-
Lakes											
Kuyakuz Lake	WQ20	-	Monthly (Jun, Oct)	Monthly (Feb)	-	-	-	-	-	-	-
Tatelkuz Lake	WQ21	-	Monthly (Jun, Oct)	Monthly (Jan)	Monthly (Apr, Jul, Sep)	-	-	-	-	-	-
Snake Lake	WQ22	-	Monthly (Jun, Oct)	Monthly (Feb)	-	-	-	-	-	-	-
Lake 1682	WQ23	-	Monthly (Jun, Oct)	Monthly (Mar)	Monthly (Apr, Jul, Sep, Dec)	-	-	-	Quarterly (Feb, May, Aug, Nov)	Quarterly (Feb, May, Aug, Nov)	Quarterly (Feb, May, Aug)
Lake 1538	WQ24	-	Monthly (Jun, Oct)	Monthly (Mar)	Monthly (Apr, Jul, Sep, Dec)	-	-	-	-	-	-
Lake 1428	WQ25	-	Monthly (Oct)	Monthly (Mar)	Monthly (Apr, Jul, Sep, Dec)	-	-	-	-	-	-

Notes:

Dashes indicate no sampling completed.

Jan = January; Feb = February; Mar = March; Apr = April; Jun = June; Jul = July; Aug = August; Sep = September; Oct = October; Nov = November; Dec = December.

Table 3.2-1: Container, Preservation, and Handling Requirements for Water Quality Samples

Analyte	Container ¹	Preservative	Holding Time	Handling
Physical/Anions	250 ml HDPE	None	15 minutes to 28 days	Ship in cooler with ice packs; store at 4°C
Dissolved Metals	60, 80 or 125 ml HDPE	None (field filtered; preserved at lab)	6 months	Ship in cooler with ice packs; store at 4°C
Total Metals	60, 80 or 125 ml HDPE	None (preserved at lab)	6 months	Ship in cooler with ice packs; store at 4°C
Dissolved Mercury	40 ml glass	None (field filtered; preserved at lab)	28 days	Ship in cooler with ice packs; store at 4°C
Total Mercury	40 ml glass	None (preserved at lab)	28 days	Ship in cooler with ice packs; store at 4°C
Dissolved Organic Carbon	100 ml amber glass	Sulphuric acid (field filtered)	28 days	Ship in cooler with ice packs; store at 4°C
Ammonia/Nutrients/ Total Organic Carbon	100 ml amber glass	Sulphuric acid	28 days	Ship in cooler with ice packs; store at 4°C
Cyanides	60 ml HDPE	Sodium hydroxide	14 days	Ship in cooler with ice packs; store at 4°C
Thiocyanate	125 mL HDPE	Nitric acid	14 days	Ship in cooler with ice packs; store at 4°C

Lake samples were collected using a Van Dorn water sampler (horizontal water bottle) designed for open water sampling. The bottle was rinsed with lake water prior to sample collection to avoid sample contamination. Lake water quality sample preservation, handling, and shipment procedures followed the same processes described for surface water quality in Section 3.2.1.

Lake depth profiles (temperature, pH, conductivity, specific conductivity and dissolved oxygen) were collected from each lake at around 1 m intervals.

3.3 Analysis

3.3.1 Laboratory Analysis

Water quality samples were analyzed for the following parameters:

- physical parameters (e.g., pH, alkalinity, turbidity);
- major anions;
- nutrients;
- cyanides, including total cyanide, weak acid dissociable (WAD) cyanide, and thiocyanate (SCN);
- total and dissolved organic carbon; and
- total and dissolved metals.

The listed analytes were consistent with the requirements set out in BC Water and Air Baseline Monitoring Guidance (ENV 2016a) and the YDWL (Nadleh Whut'en and Stellat'en 2016b). Water quality samples were analyzed at the lowest available detection limit. A list of the water quality parameters

analyzed is presented in Table 3.3-1 with the range of realized analytical detection limits. More than one detection limit was realized for some parameters during the course of the sampling program. Generally, detection limits decreased over time due to improved analytical methods; however, higher detection limits occurred when dilution of a sample was required by the analytical laboratory to compensate for high total dissolved solids (TDS) or sample matrix effects (e.g., chemical interference, colour, turbidity).

Table 3.3-1: Water Quality Parameters and Detection Limits, 2011 to 2020

Parameter	Unit	Range of Realized Detection Limits	Parameter	Unit	Range of Realized Detection Limits
Physical Parameters and Dissolved Anions			Total and Dissolved Metals (cont'd)		
Conductivity	µS/cm	0.001 to 2	Beryllium	mg/L	0.00002 to 0.0001
pH	pH units	0.01 to 0.1	Bismuth	mg/L	0.00005
Total Suspended Solids	mg/L	2 to 3	Boron	mg/L	0.001 to 0.01
Turbidity	NTU	0.1	Cadmium	mg/L	0.000005 to 0.00003
Total Dissolved Solids	mg/L	4 to 13	Calcium	mg/L	0.05 to 0.5
Hardness (as CaCO ₃)	mg/L	0.5 to 6	Chromium	mg/L	0.0001 to 0.005
Total Alkalinity (as CaCO ₃)	mg/L	1	Cobalt	mg/L	0.00002 to 0.0001
Acidity (as CaCO ₃)	mg/L	1 to 2	Copper	mg/L	0.0001 to 0.001
Bromide	mg/L	0.05	Iron	mg/L	0.0001 to 0.2
Chloride	mg/L	0.1 to 0.5	Lead	mg/L	0.00005
Fluoride	mg/L	0.02	Lithium	mg/L	0.001 to 0.005
Sulphate	mg/L	0.3 to 0.5	Magnesium	mg/L	0.005 to 0.5
Nutrients			Manganese	mg/L	0.00005 to 0.0001
Ammonia (as N)	mg/L	0.005 to 0.02	Mercury	mg/L	0.000005 to 0.00025
Nitrate (as N)	mg/L	0.005	Molybdenum	mg/L	0.00005
Nitrite (as N)	mg/L	0.001 to 0.003	Nickel	mg/L	0.00005 to 0.0005
Total Kjeldahl Nitrogen	mg/L	0.05 to 0.08	Phosphorus	mg/L	0.01 to 0.3
Total Phosphate (as P)	mg/L	0.002 to 0.02	Potassium	mg/L	0.05 to 0.5
Ortho-phosphate (as P)	mg/L	0.001 to 0.003	Selenium	mg/L	0.00005 to 0.0006
Cyanides			Silicon	mg/L	0.01 to 0.1
Total Cyanide	mg/L	0.005 to 0.01	Silver	mg/L	0.00001 to 0.00005
Cyanide, Weak Acid Dissociable	mg/L	0.005	Sodium	mg/L	0.05 to 2
Thiocyanate	mg/L	0.1 to 2.5	Strontium	mg/L	0.000005 to 0.0002
Organic Carbon			Sulphur	mg/L	0.5
Total Organic Carbon	mg/L	0.1 to 0.5	Thallium	mg/L	0.00001 to 0.00005
Dissolved Organic Carbon	mg/L	0.1 to 0.5	Tin	mg/L	0.0001
Total and Dissolved Metals			Titanium	mg/L	0.0002 to 0.011
Aluminum	mg/L	0.001 to 0.021	Uranium	mg/L	0.00001 to 0.00005
Antimony	mg/L	0.00005 to 0.0001	Vanadium	mg/L	0.00005 to 0.0005
Arsenic	mg/L	0.0001 to 0.0008	Zinc	mg/L	0.0005 to 0.003
Barium	mg/L	0.00005 to 0.0001			

Note:

NTU = nephelometric turbidity unit

3.3.2 Data Analysis

For analysis and graphing purposes, values below the detection limit were assigned a concentration of half the reported detection limit. Field duplicates were treated as one sample represented by the average concentration of the replicate samples. For the purpose of visualization, weekly samples collected in one month were treated as one sample as monthly mean values.

Water quality results are compared to applicable available BC provincial (ENV 2019, 2020a) or federal (CCME 2020) water quality guidelines for freshwater aquatic life (Section 4). Further details are provided in Section 4.

Comparisons to guidelines followed the hierarchy provided in *Technical Guidance 4: Annual Reporting under the Environmental Management Act* (ENV 2016b), with guidelines applied in the following order:

1. The most current BC Approved Water Quality Guideline (ENV 2019).
2. If none have yet been established, use the most current BC Working Water Quality Guideline for British Columbia (ENV 2020a).
3. If neither of these has yet been established, use the most current guideline provided by the Canadian Council of Ministers of the Environment (CCME 2020).

For pH, hardness, dissolved organic carbon (DOC), and chloride dependent guidelines, the sample-specific hardness, pH, DOC, or chloride values were used to set the guideline limit. Observations that were less than the detection limit but greater than the applicable water quality guideline were excluded from guideline exceedance calculations. Results of guideline comparisons are provided in Section 4.

Long-term average (“chronic”) guidelines were used for initial comparisons. Long-term guidelines are the most restrictive; consequently, if no exceedances of long-term guidelines were observed for a parameter, no further investigation was necessary. Where long-term average guidelines were exceeded or did not exist, short-term maximum (“acute”) guidelines were used. Data interpretation and presentation in Section 4 are focussed on parameters with concentrations with applicable guidelines; particularly those that approach or are higher than the guideline(s).

Baseline concentrations of water quality parameters were compared to guidelines for freshwater aquatic life. Aquatic life is typically the most sensitive designated water use (i.e., with the lowest applicable guidelines), and is a relevant water use in Project waterbodies.

Two metal guidelines were updated in 2019:

- The hardness-dependent BC total copper guideline was replaced by a Biotic Ligand Model (BLM) computed dissolved copper guideline in August, 2019. The updated guideline is dependent on inputs of several water quality parameters including pH, temperature, hardness and DOC. Consequently, the total copper guideline was superseded by the new BLM dissolved copper guideline to evaluate copper concentrations.
- CCME issued new guidelines for dissolved manganese in December 2019. The short-term benchmark is dependent on hardness whereas the long-term guideline uses a look-up table based on pH and hardness.

The updated BC dissolved copper guideline is calculated using a Biotic Ligand Model (BLM), and is dependent on inputs of several water quality parameters including field temperature and DOC. Historically, field temperature was not monitored until 2017. Therefore, project-wide medians were used to calculate temperature-dependent guidelines based on the seasons: a summer median of 10°C for June to September and winter median of 2°C for October to May.

Guideline exceedances were characterized using two values:

- frequency of exceedance; i.e., how often the guideline is exceeded, calculated from the number of measurements exceeding the guideline as a percentage of the total number of measurements; and
- factor of exceedance; i.e., by how much the guideline is exceeded, calculated from the average of parameter concentration (from the subset of concentrations greater than the guideline) divided by the guideline.

The BC and CCME water quality guidelines presented in this report represent environmental benchmarks that provide protection for freshwater aquatic life and can be used for the development of site-specific water quality objectives, including YDWL WQS. These guidelines were developed using the precautionary principle and include conservative safety factors. Comparisons to guidelines were used to assess the baseline water quality data from watercourses in the Project area and to identify when natural background concentrations were higher than guideline values. This assessment is required to establish realistic targets for water management; however, the guidelines do not have any legal standing (ENV 2019).

3.4 Quality Assurance and Quality Control (QA/QC)

3.4.1 Field

3.4.1.1 Blanks

Travel and field blanks were used to detect potential sample contamination and natural heterogeneity. The travel blank bottles were filled with distilled deionized water in the laboratory and remained closed throughout the field trip. This protocol allowed assessment of contamination associated with the laboratory procedures or during shipping. The field blank bottles were filled with distilled deionized water by the laboratory, and were opened in the field and preserved as required for their specific analyses. This protocol allowed assessment of potential contamination associated with field sampling (airborne contamination, contamination of the lid/bottle, etc.), preservation procedures, and shipping. Detected concentrations of water quality parameters (concentrations above the method detection limit - MDL) were noted for both travel and field blanks and indicated possible contamination.

3.4.1.2 Duplicates

For QA/QC purposes, approximately 10% of the water samples were randomly collected as duplicates to assess the magnitude and potential causes of variability between samples. These duplicate samples were submitted blind (i.e., no sample location identifier) to the analytical laboratory. For each pair of QA/QC field duplicate water samples, the relative percent differences (RPD) were calculated, where:

$$RPD = 100 |rep1 - rep2| / [(rep1 + rep2)/2]$$

The RPD between the duplicates is a measure of the variability inherent in field sampling (environmental heterogeneity, sampler handling leading to contamination, potential laboratory errors). Water quality variables where one or both values were less than five times the MDL were not included in the RPD calculations because variability near the MDL is too high according to the BC Field Sampling Manual (ENV 2013). The BC provincial government recommends that any field duplicates with RPD values exceeding 20% should be noted and data should be interpreted accordingly. The results of RPD calculations were examined to detect patterns of high variation for multiple variables within sample pairs, indicating possible contamination during field sampling.

For the purposes of calculating summary statistics and graphing water quality data, duplicate samples were evaluated as one sample, represented by the average analytical results of the duplicates. Samples collected over a one-month period, including weekly and 5-in-30 sampling, were summarized as one monthly sample representing the average analytical results over a 30 day period. Averaging weekly samples and duplicates avoids weighting summary statistics towards months or years with more frequent sampling.

3.4.2 Laboratory

The quality of the ALS laboratory data was confirmed by QA/QC measurements and protocols to determine and confirm the accuracy, sensitivity, precision, and comparability of the data. This involved the use of method blanks, replicates, laboratory control samples and reference material, and matrix spikes.

Method blanks are clean control samples that detected potential contamination during sample preparation and analysis. Laboratory duplicates are field-collected samples split at the lab and analyzed separately. These determine the methodological precision. Accuracy was tested using laboratory control samples, reference materials, and matrix spikes. Laboratory control samples were a clean matrix (i.e., distilled, de-ionized water) spiked with test parameters. Reference materials are samples with a known concentration of a parameter. Matrix spikes are field-collected samples that were spiked with test analytes. Anomalous results (for example, detected concentrations in the blanks) were verified with repeated analysis. Quality control measurements and protocols were conducted in accordance with the British Columbia Environmental Laboratory Manual (Austin. J. 2020).

3.4.3 Data Analysis

The YDWL requires the surface monitoring program to include an evaluation of the resultant data quality (i.e., data validation) to determine which data can be used to assess baseline conditions.

3.4.3.1 Field Data

Field data were recorded by Avison Management Services Ltd. in the form of field notes. Field notes were scanned into PDF files by Avison and transcribed into a digital Excel table by ERM. Based on professional judgement, field data were examined by their expected range of values. Outliers indicating an error were removed.

For example, specific conductance is a conductivity measurement made at or corrected to 25 °C. Conductivity is convertible to specific conductance with the following equation.

$$\text{Specific Conductance} = \text{Conductivity} / (1 + 0.02 * (\text{temperature} - 25))$$

Since field temperature values are usually in the range of 0 - 25 °C, the expected ratio of conductivity /specific conductance is 0.5 – 1. Conductivity and specific conductance values substantially outside this range were investigated to avoid reporting errors.

3.4.3.2 Laboratory Data

To ensure data integrity, extra caution was taken during laboratory data compilation and the compiled dataset was spot-checked against the raw lab reports to reduce transcribing errors. Additionally, implied detection limits in non-detects (i.e., values containing the “<” sign) were censored against the reported detection limits to check for discrepancies. For example, detected values less than the reported detection limits are not expected. Anomalous results were examined for transcription errors and were censored if data were suspect based on best professional judgement. However, as metal concentrations in the Project area are highly variable, high values may not necessarily reflect analytical issues or errors and may instead simply record the temporal variability of the water quality. Occurrences that reflected this natural variability were not censored.

4. RESULTS

Stream and lake water quality results are compared to applicable BC or CCME approved or working guidelines, as discussed in Section 3.3. The water quality guidelines used for this report are compiled in Appendix A. Stream water quality sampling results are discussed in Section 4.1, and lake water quality sampling results are discussed in Section 4.2.

4.1 Stream Water Quality

Laboratory water quality analytical data are compiled in Appendix B-1 for all Project stream sampling sites, with field data in Appendix B-2. Monthly mean water quality sampling results are presented in Figures 4.1-1 to 4.1-33 for a series of water quality parameters, including general parameters, nutrients, organic carbon, cyanide, and major anions. Additionally, monthly mean sampling results are presented for a subset of metals (total and dissolved) for which measured concentrations in Project streams approached or exceeded applicable water quality guidelines (see Section 3.3); sampling results for all other metals (total and dissolved) with existing relevant water quality guidelines are presented in Appendix C.

Sampling sites were grouped by watershed for graphing and discussion purposes as follows (see Section 2.1 for details of each watershed):

- Davidson Creek watershed (upstream and downstream);
- Creek 661 watershed, including WQ3 on Creek 505659;
- Chedakuz Creek watershed;
- Creek 705 watershed; and
- Turtle Creek, Fawnie Creek, and Blackwater River reference sites.

Figures include data collected up to November 2020.

4.1.1 *Hydrological Influences on Stream Water Quality*

Base flows in the Project area are typically characterized by high spring flows driven by snowmelt (freshet), low summer flows sustained by groundwater inflows and periodic rainfall events, followed by smaller fall rainfall events (KP 2017). Winter flows are typically very low due to freezing conditions. In most years, hydrographs consist of a unimodal shape with a freshet peak in May or June (or sometimes April), although occasionally late summer storms can result in an additional hydrograph peak (KP 2017).

Hydrology can be an important driver of stream water quality, as snowmelt or storm runoff can transport sediment into surface water bodies. High rainfall or snowmelt can also result in dilution, decreasing concentrations of dissolved solids. The hydrology of the Project is detailed elsewhere (KP 2017); however, stream water quality is linked to streamflows where relevant in the following sections.

4.1.2 *Comparison to Water Quality Guidelines*

Stream water quality sampling results were compared to water quality guidelines on a sample by sample basis, as described in Section 3.3.2.

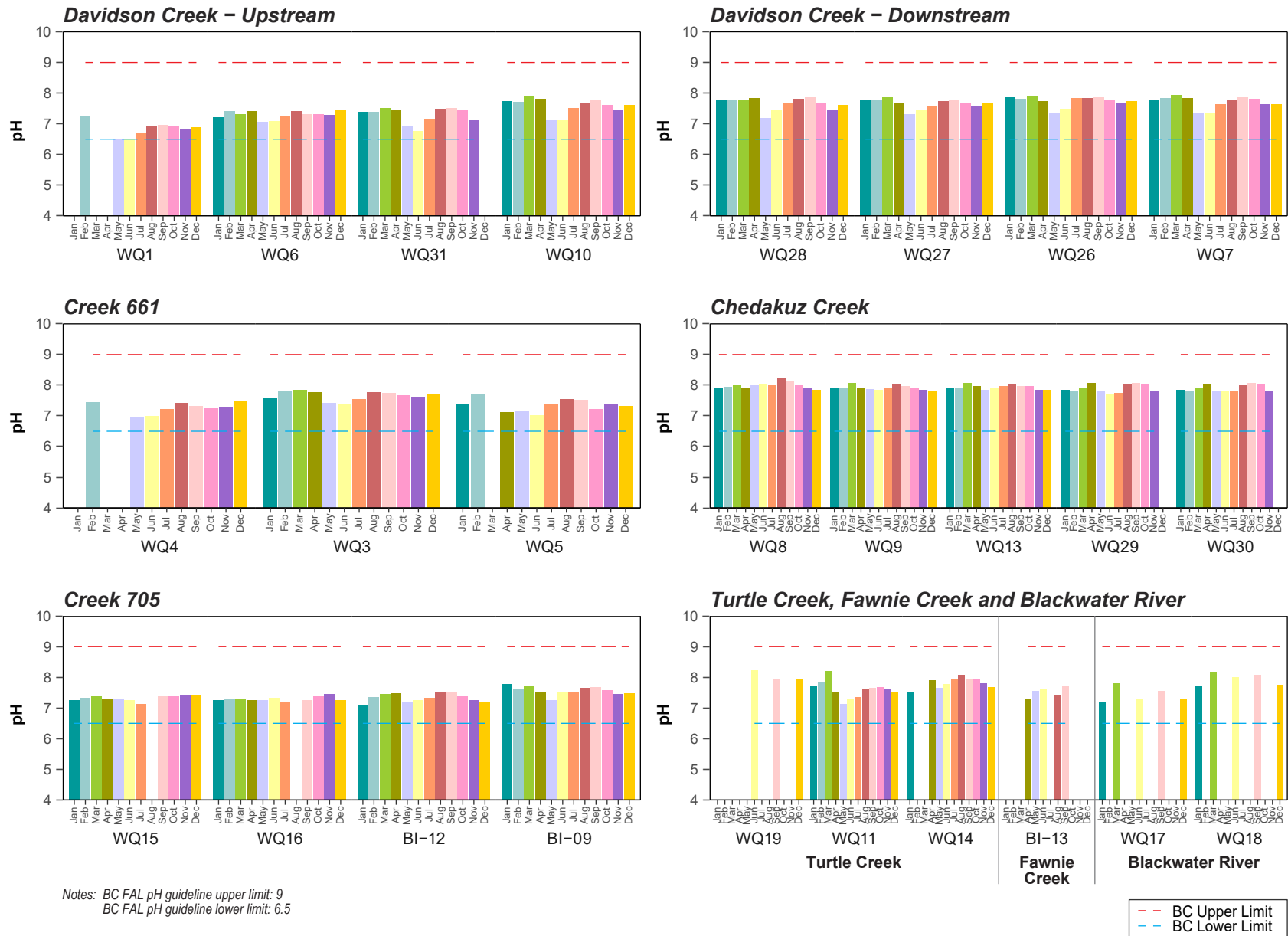


Figure 4.1-1: Monthly Mean pH Values, Blackwater Gold Project Streams, 2011 to 2020

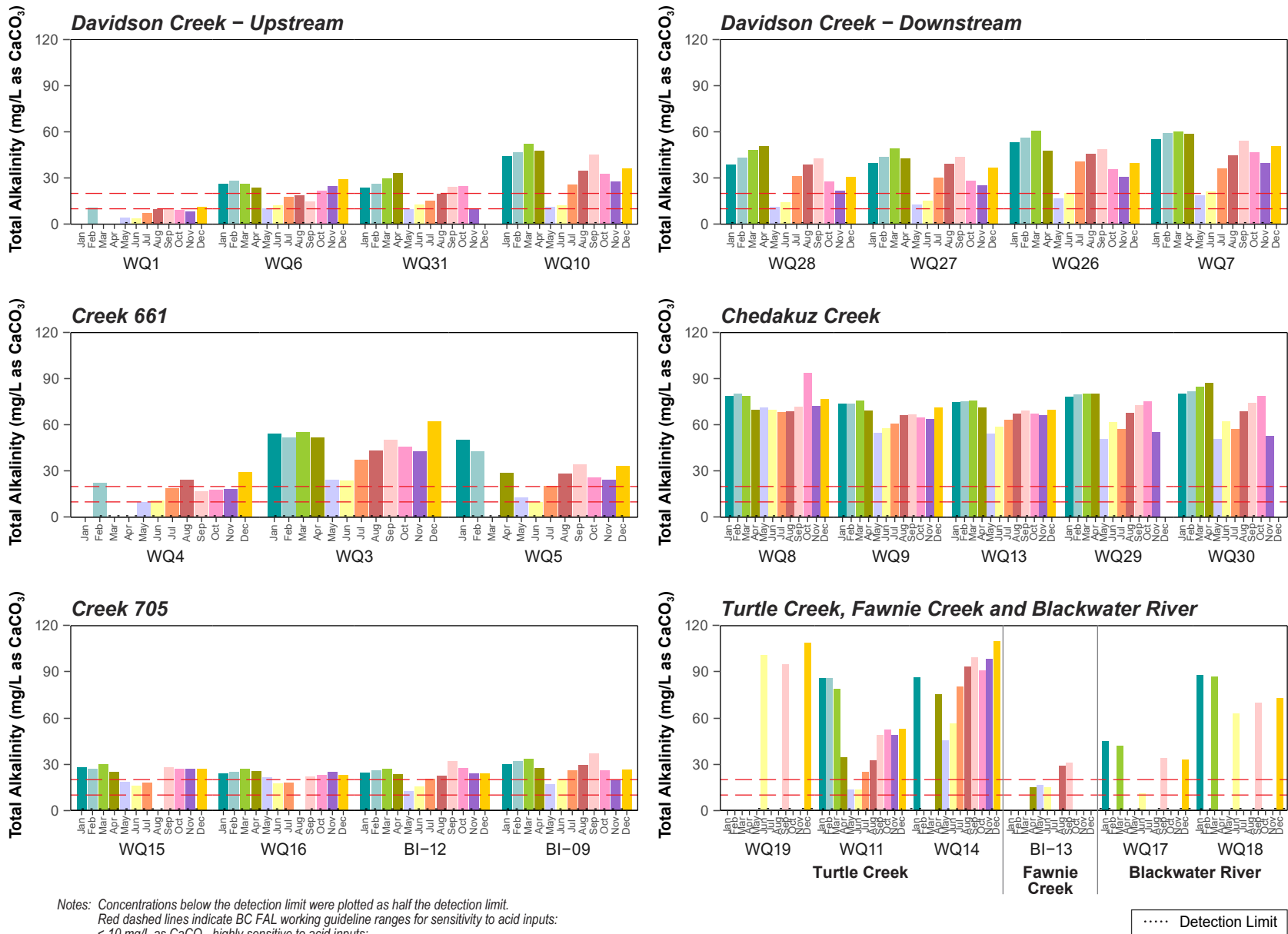


Figure 4.1-2: Monthly Mean Total Alkalinity, Blackwater Gold Project Streams, 2011 to 2020

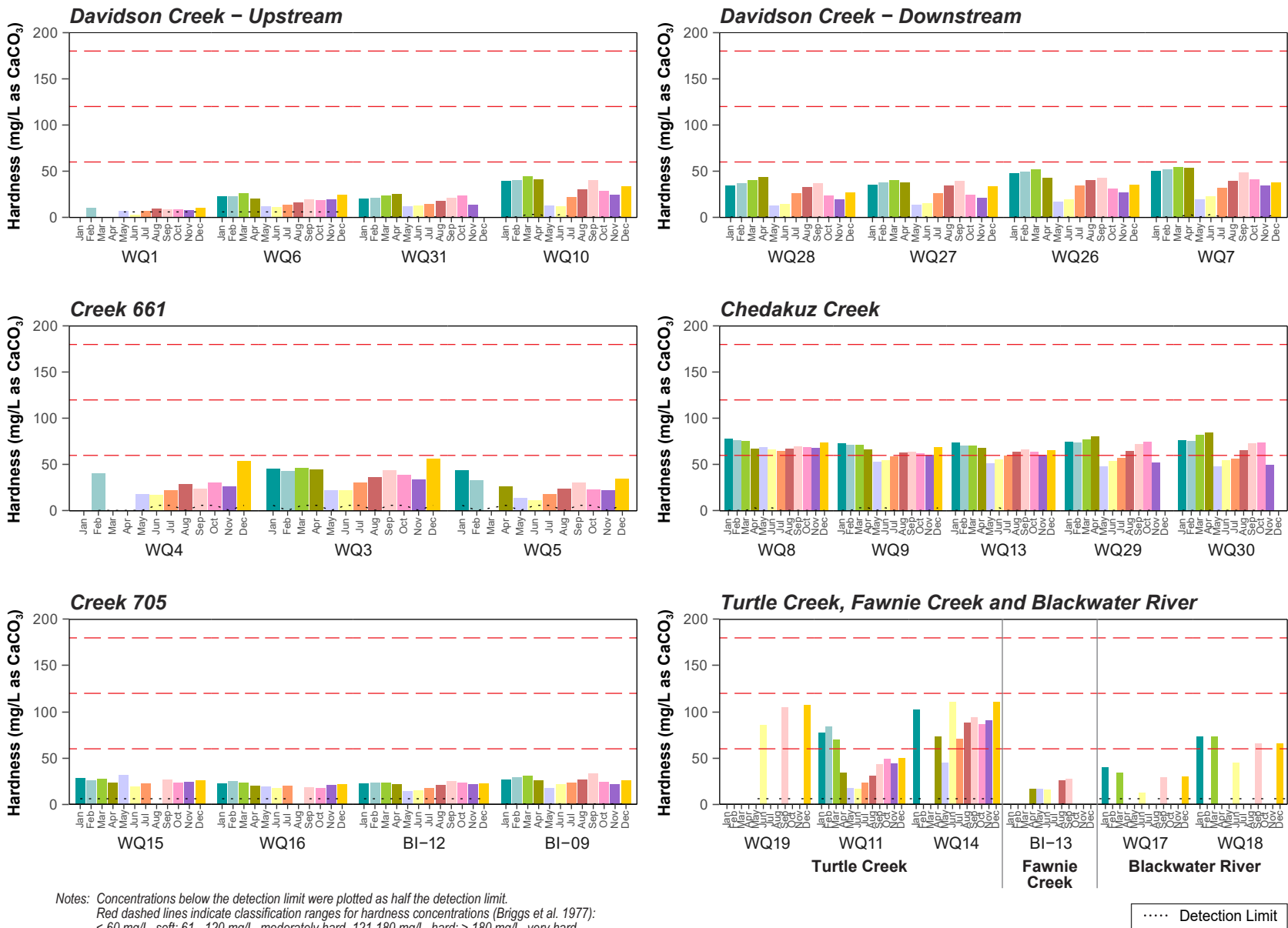
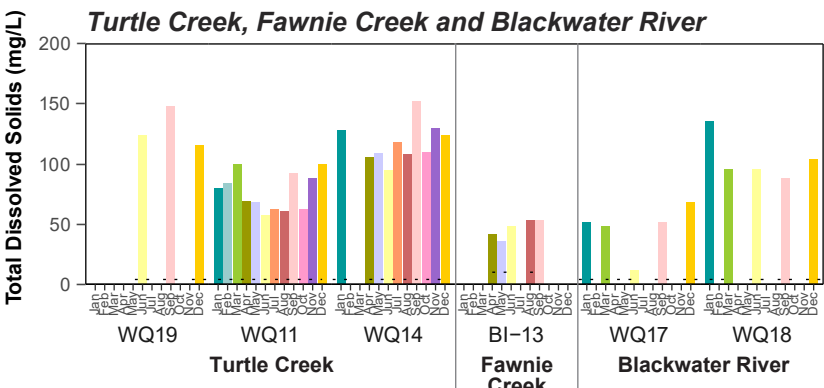
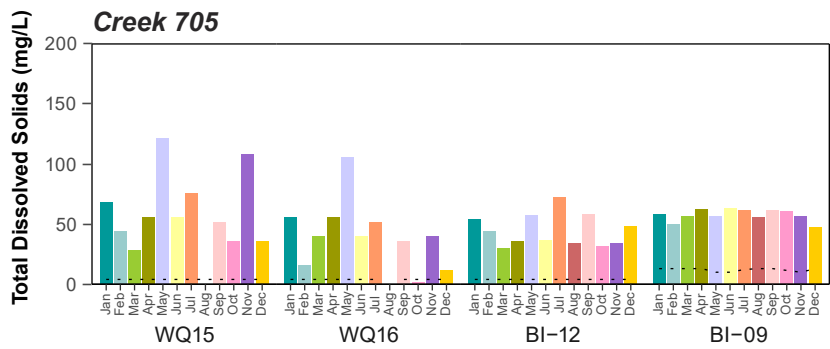
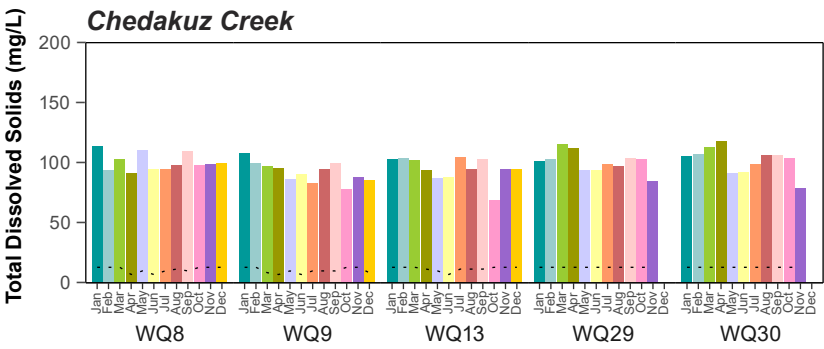
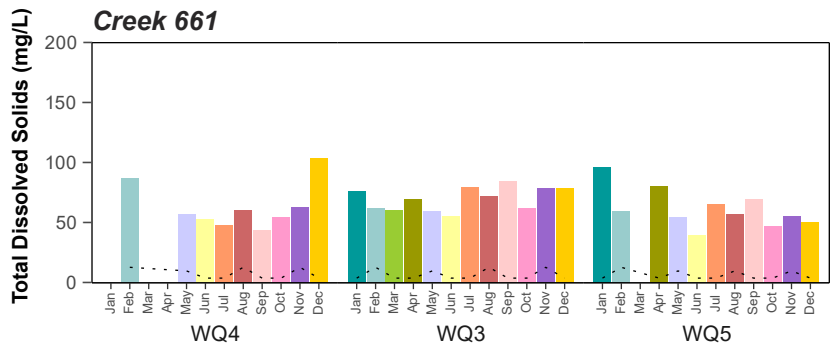
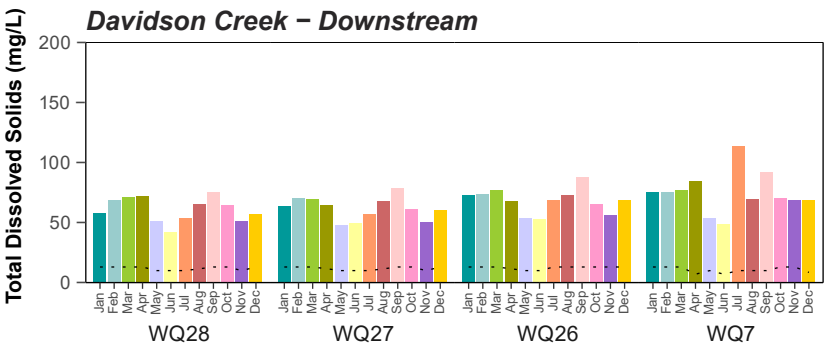
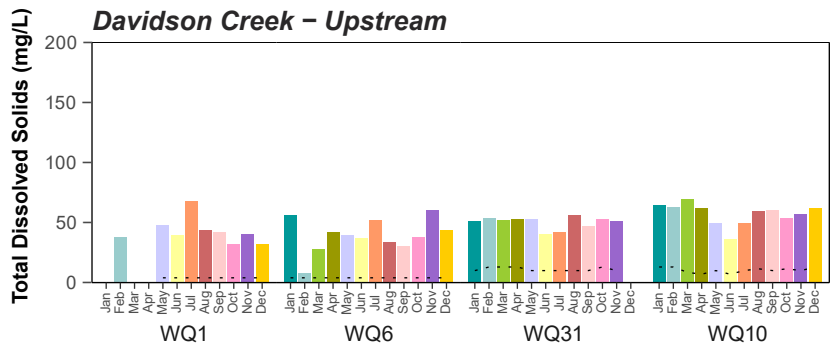


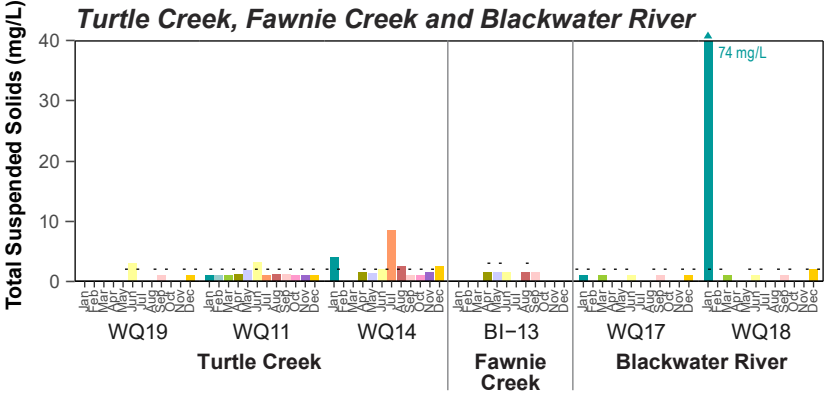
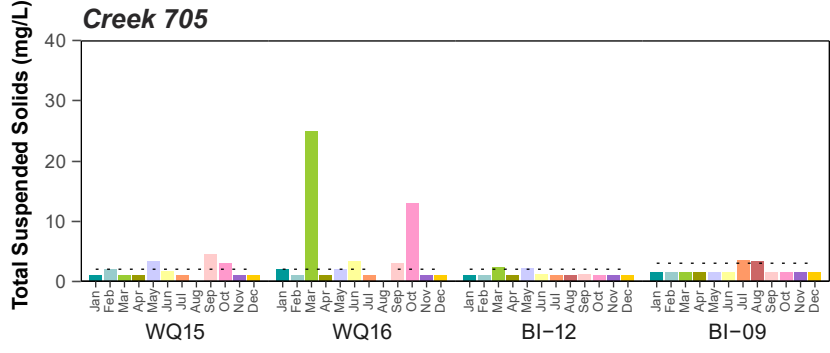
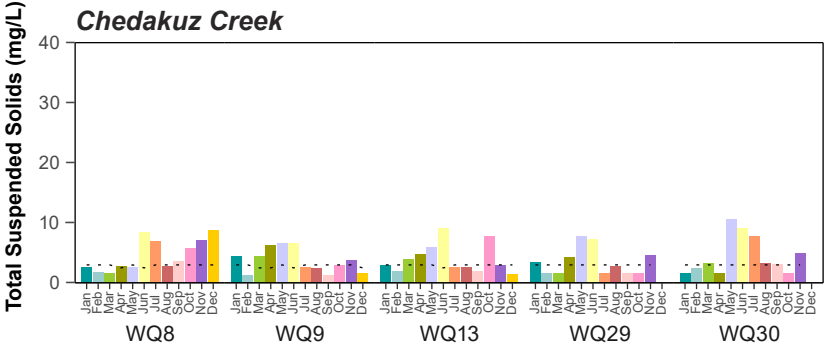
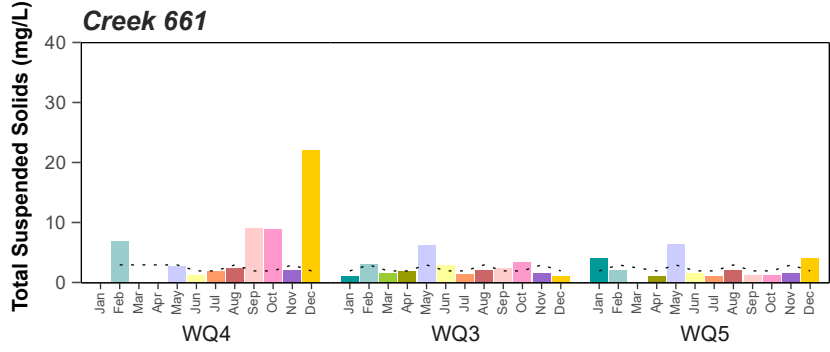
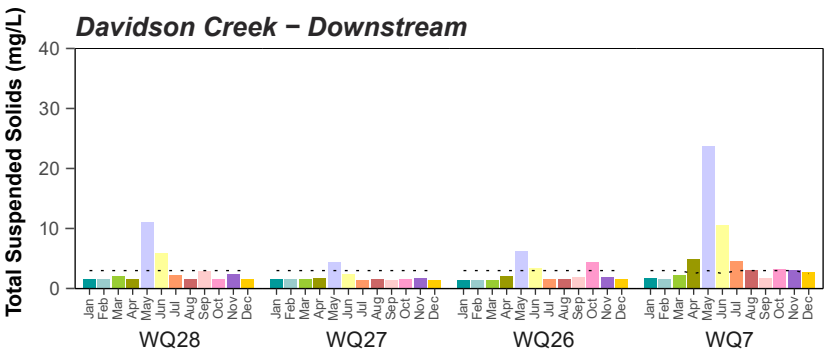
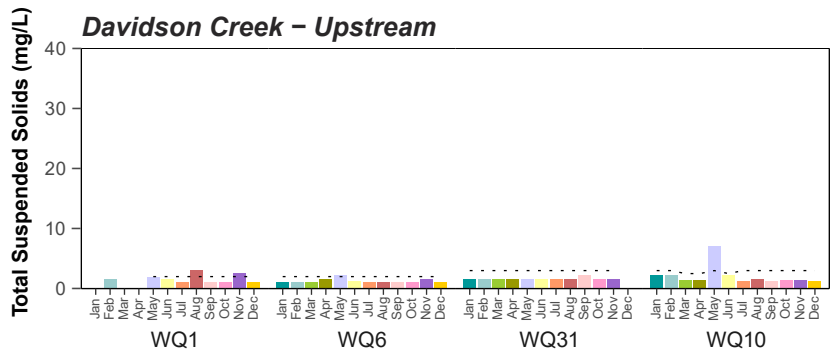
Figure 4.1-3: Monthly Mean Hardness, Blackwater Gold Project Streams, 2011 to 2020



Notes: Concentrations below the detection limit were plotted as half the detection limit.
Water quality guidelines for dissolved solids are dependent on background levels.

..... Detection Limit

Figure 4.1-4: Monthly Mean Total Dissolved Solids, Blackwater Gold Project Streams, 2011 to 2020



Notes: Concentrations below the detection limit were plotted as half the detection limit.
Water quality guidelines for suspended solids are dependent on background levels.

..... Detection Limit

Figure 4.1-5: Monthly Mean Total Suspended Solids, Blackwater Gold Project Streams, 2011 to 2020

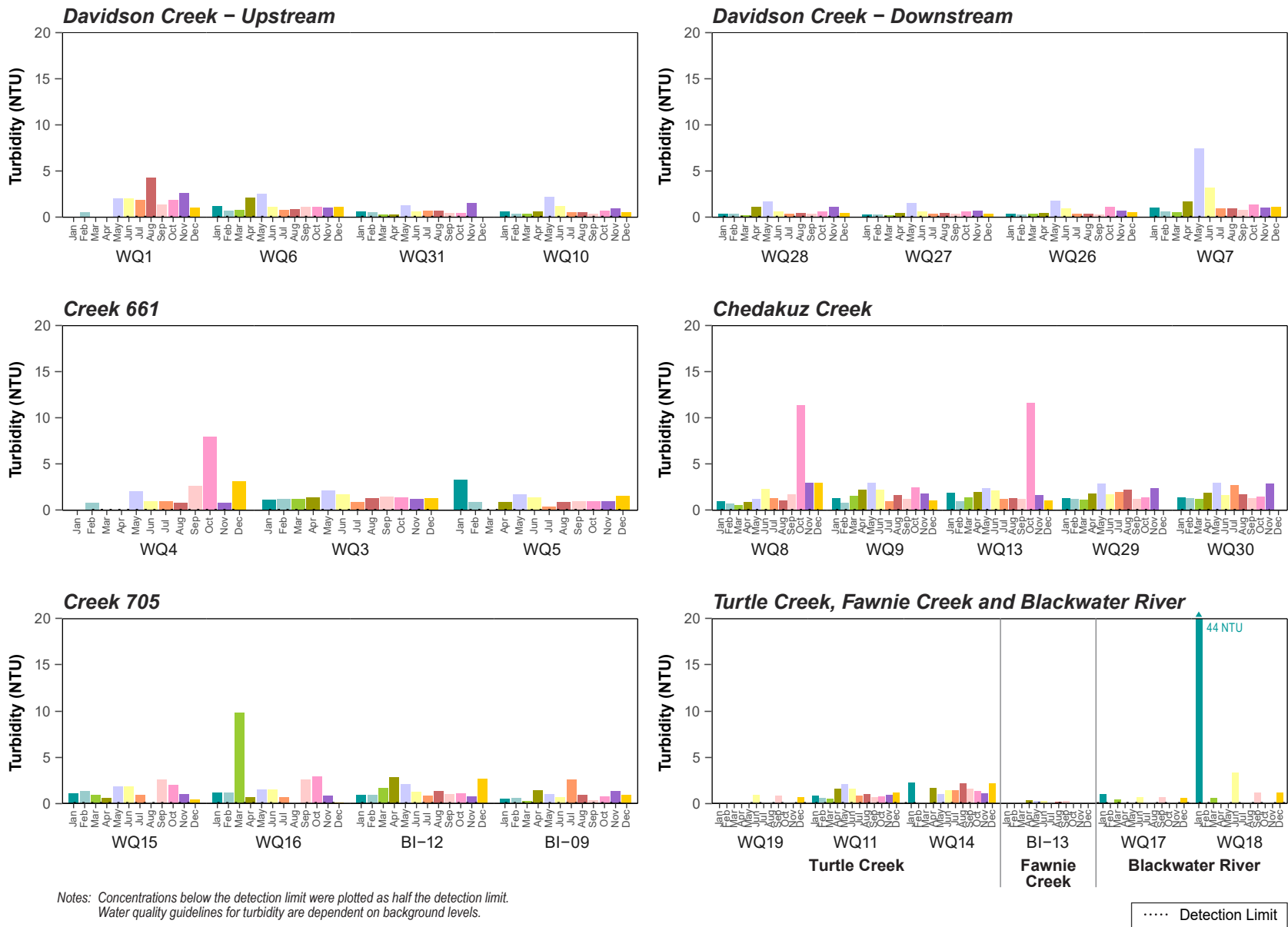


Figure 4.1-6: Monthly Mean Turbidity, Blackwater Gold Project Streams, 2011 to 2020

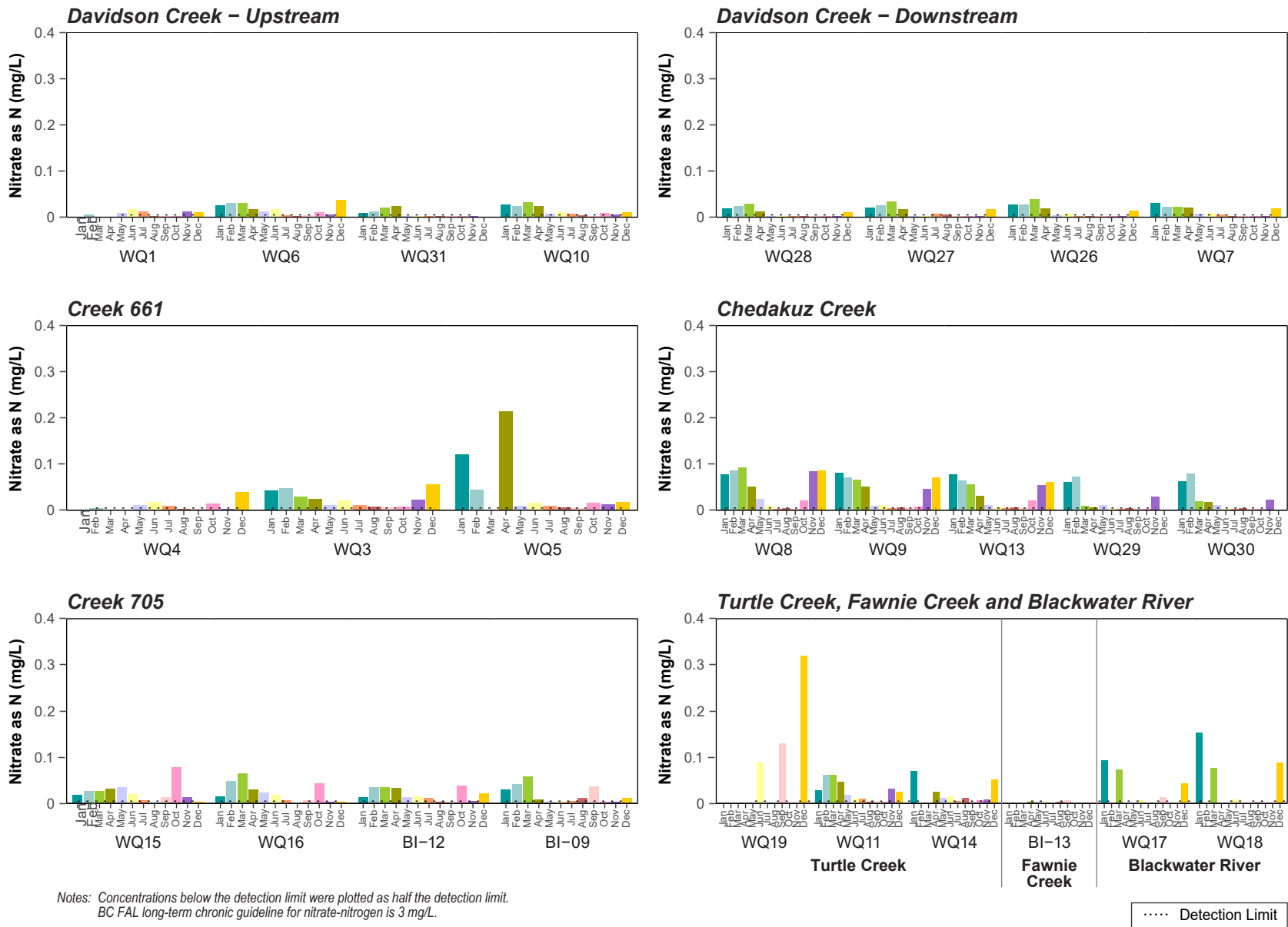


Figure 4.1-7: Monthly Mean Nitrate Concentrations, Blackwater Gold Project Streams, 2011 to 2020

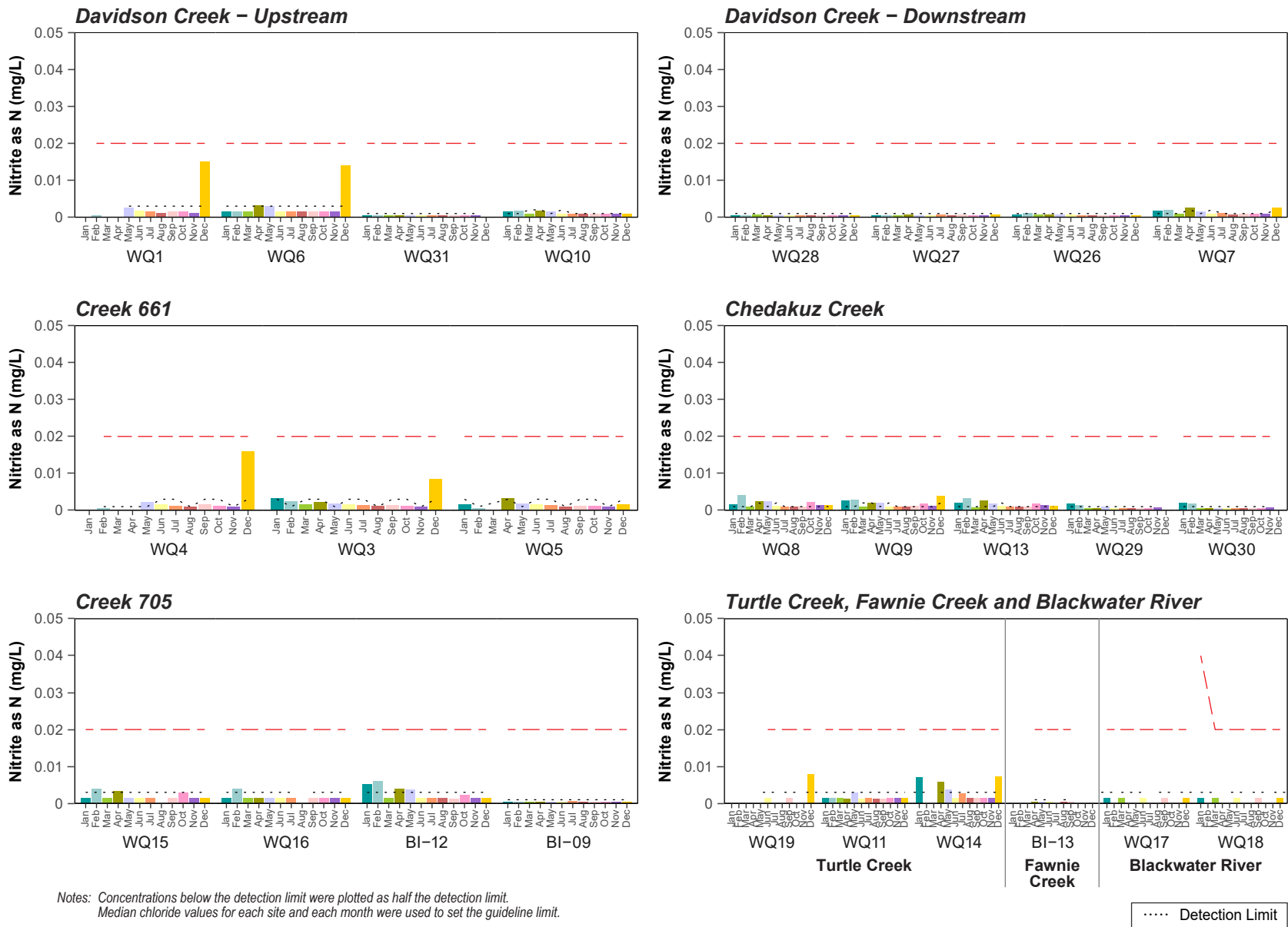


Figure 4.1-8: Monthly Mean Nitrite Concentrations, Blackwater Gold Project Streams, 2011 to 2020

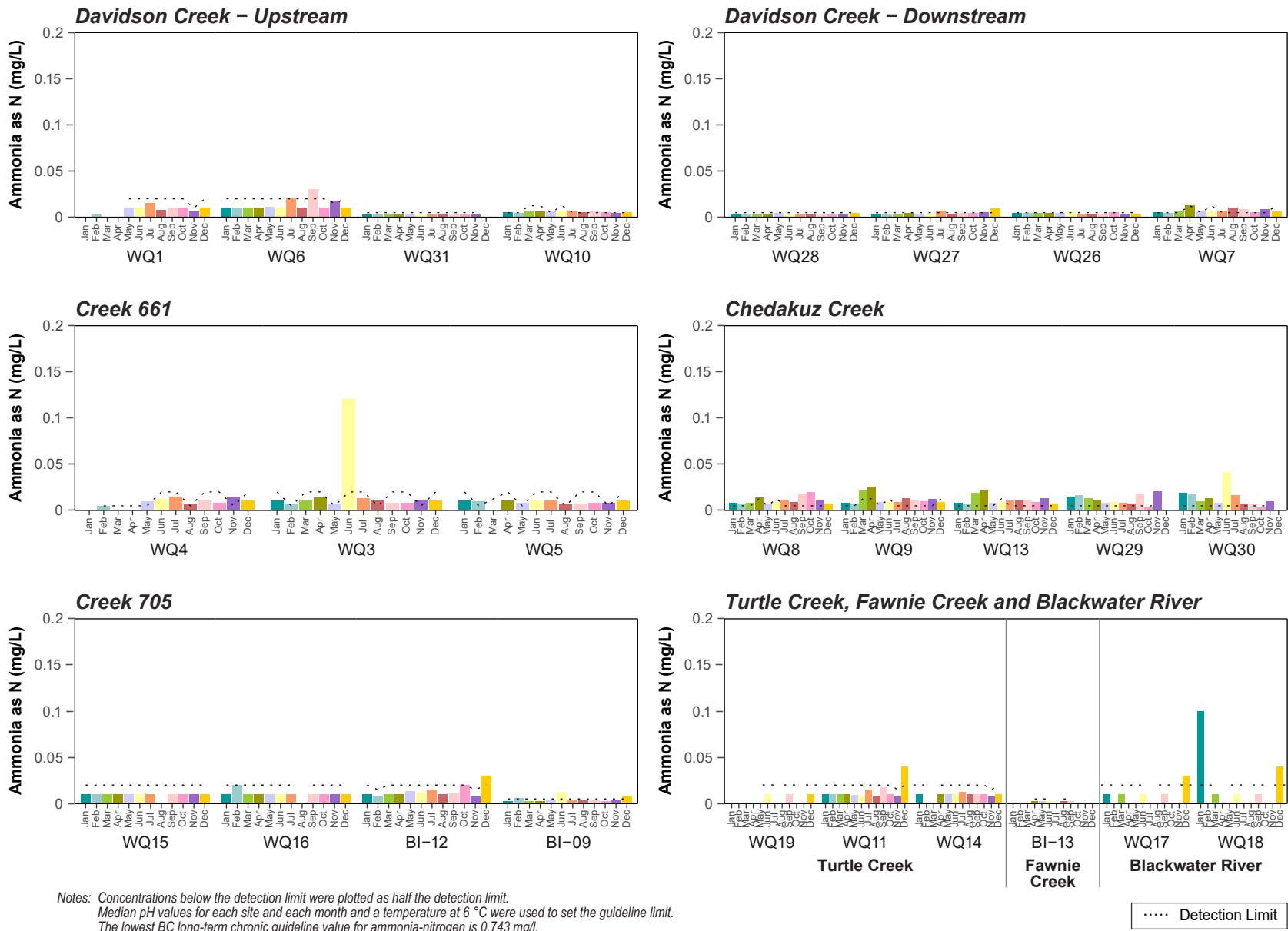


Figure 4.1-9: Monthly Mean Ammonia Concentrations, Blackwater Gold Project Streams, 2011 to 2020

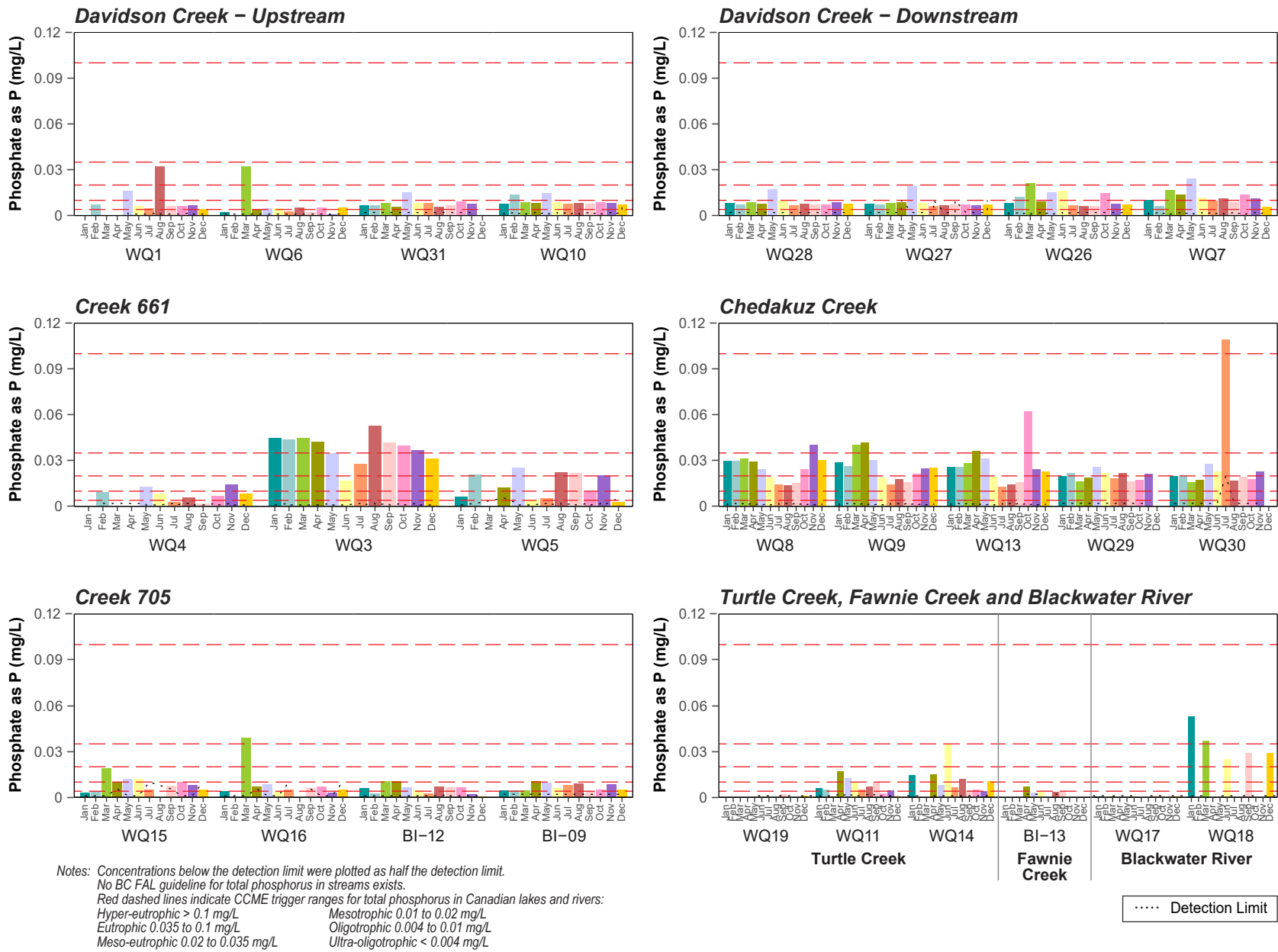


Figure 4.1-10: Monthly Mean Total Phosphorus Concentrations, Blackwater Gold Project Streams, 2011 to 2020

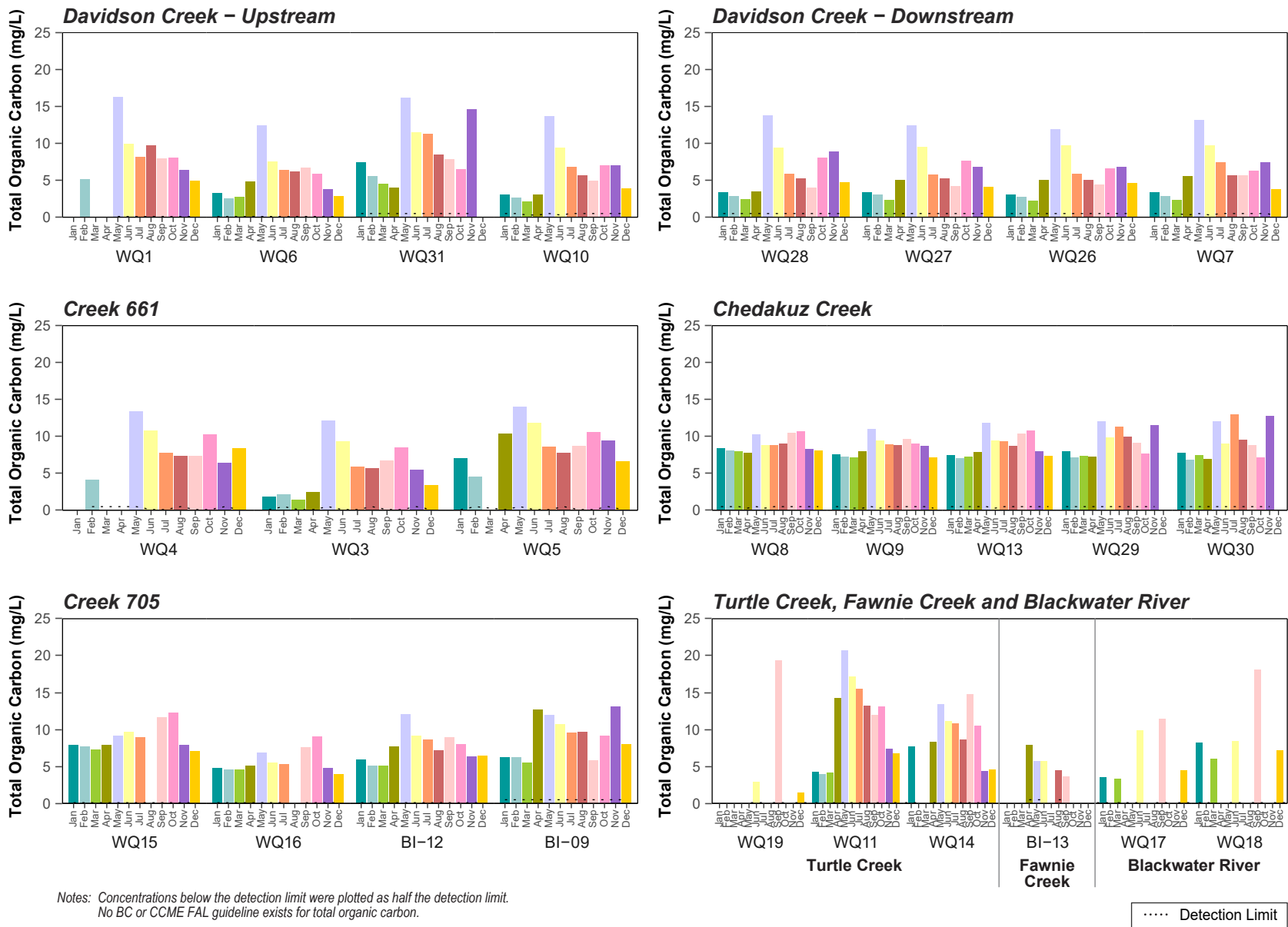


Figure 4.1-11: Monthly Mean Total Organic Carbon Concentrations, Blackwater Gold Project Streams, 2011 to 2020

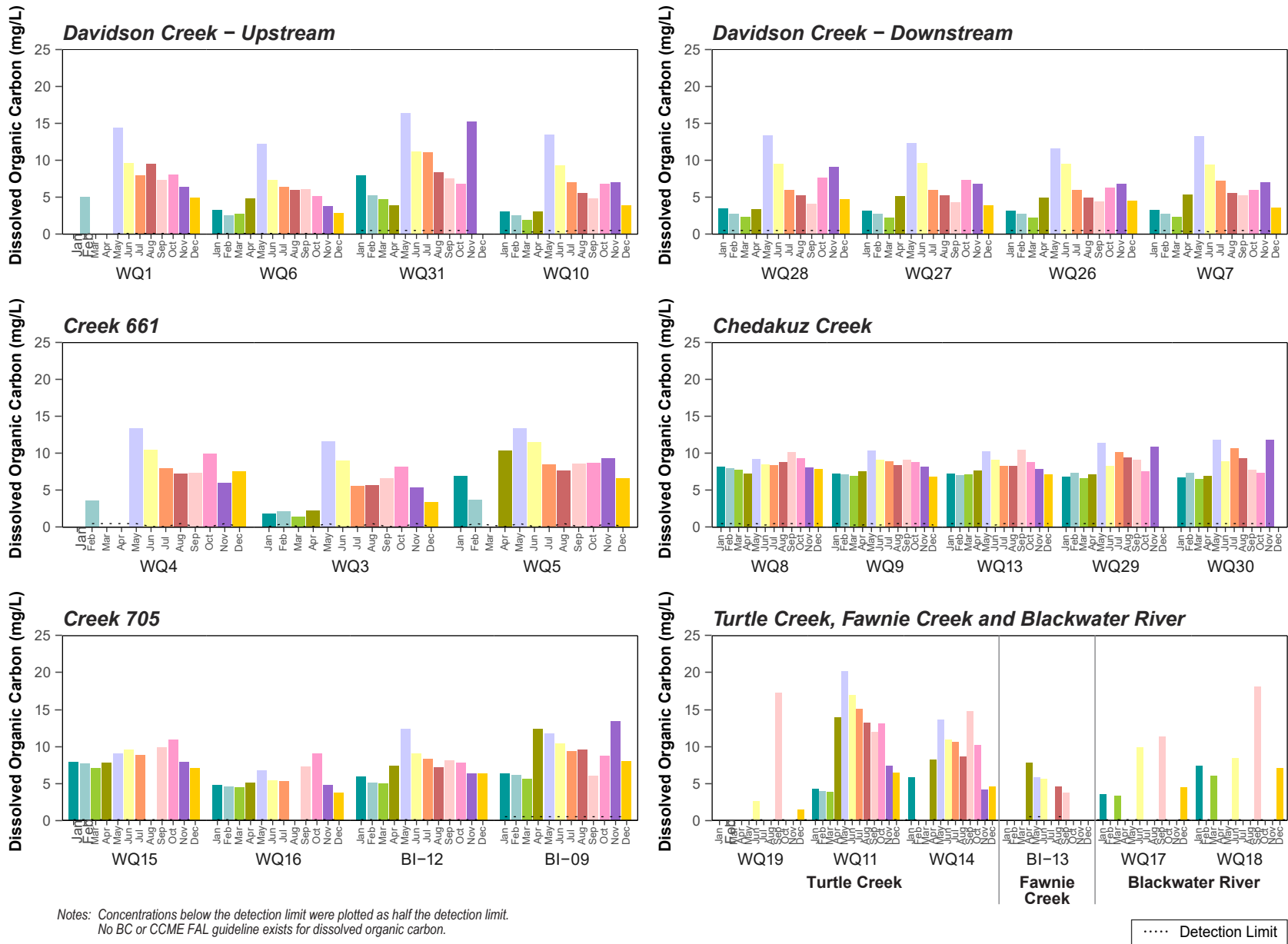


Figure 4.1-12: Monthly Mean Dissolved Organic Carbon Concentrations, Blackwater Gold Project Streams, 2011 to 2020

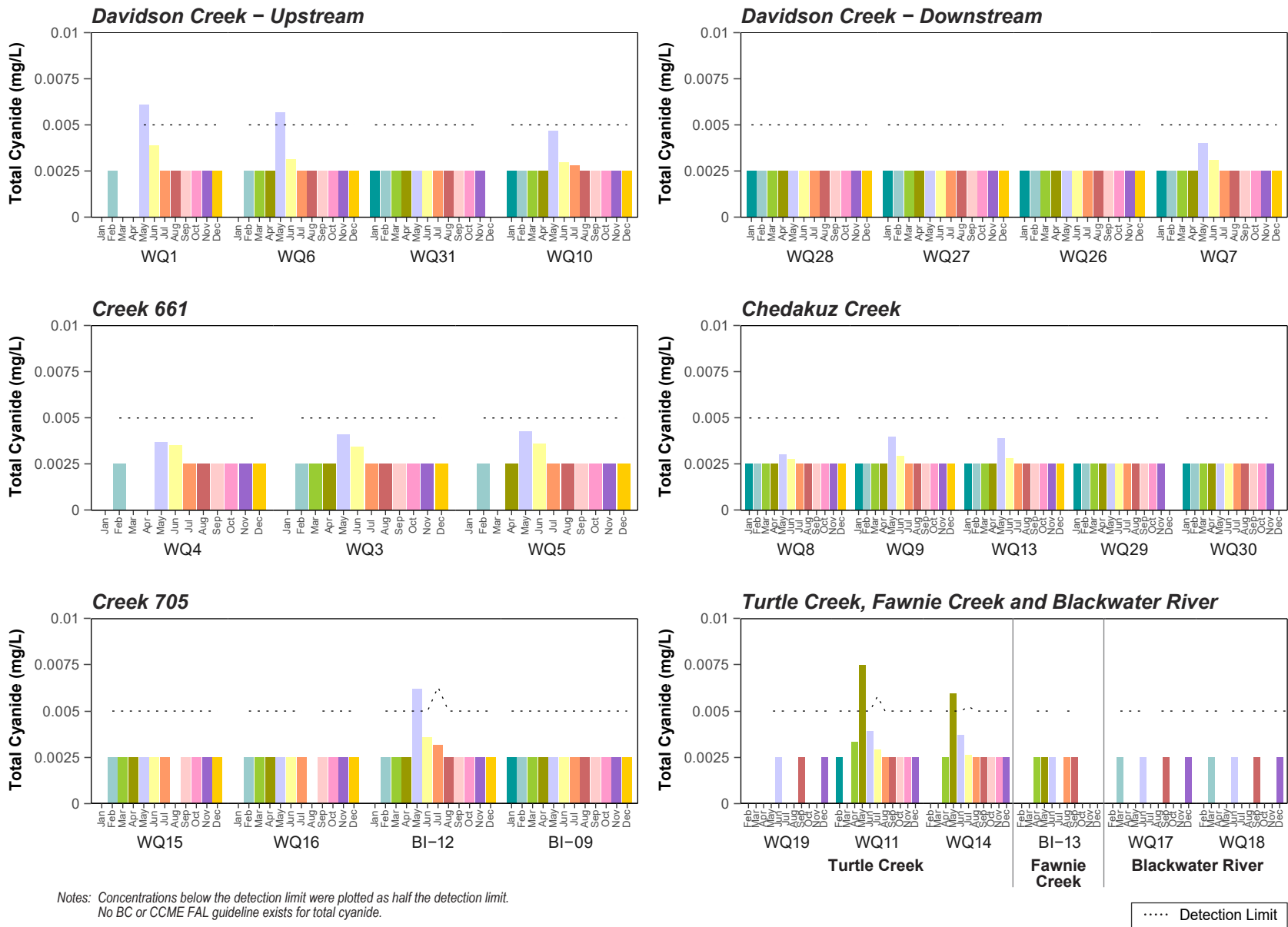


Figure 4.1-13: Monthly Mean Total Cyanide Concentrations, Blackwater Gold Project Streams, 2011 to 2020

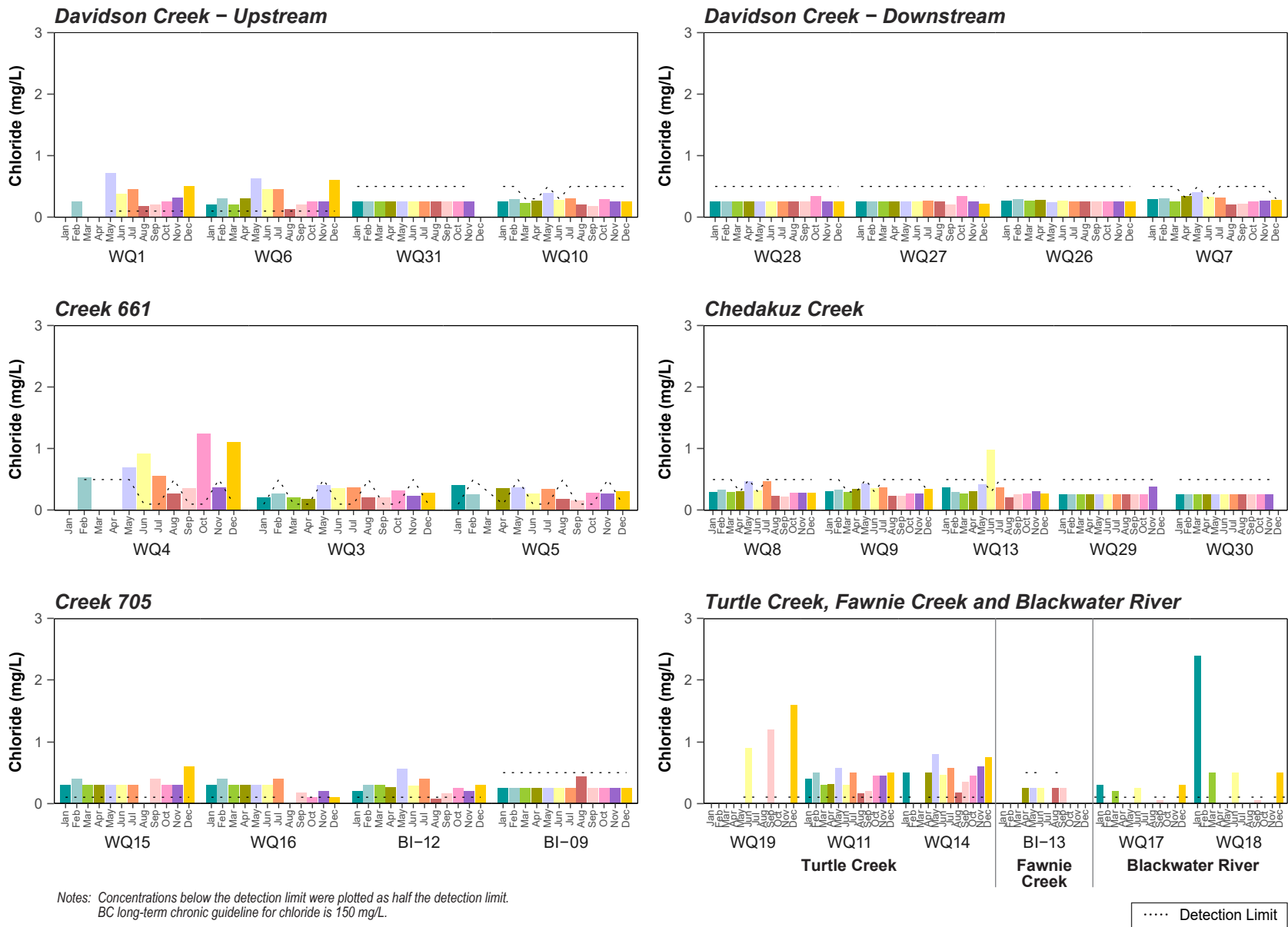


Figure 4.1-14: Monthly Mean Chloride Concentrations, Blackwater Gold Project Streams, 2011 to 2020

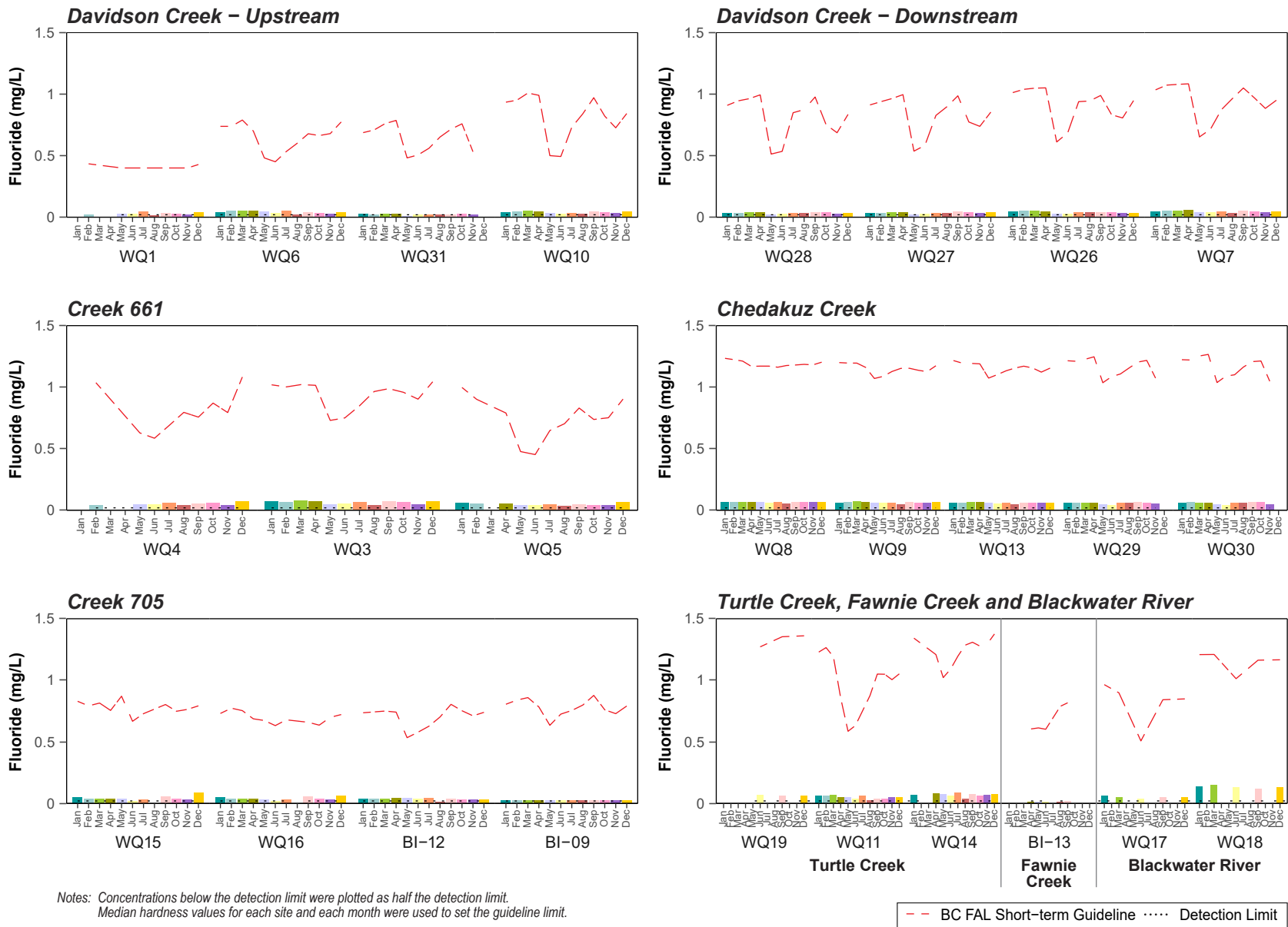


Figure 4.1-15: Monthly Mean Fluoride Concentrations, Blackwater Gold Project Streams, 2011 to 2020

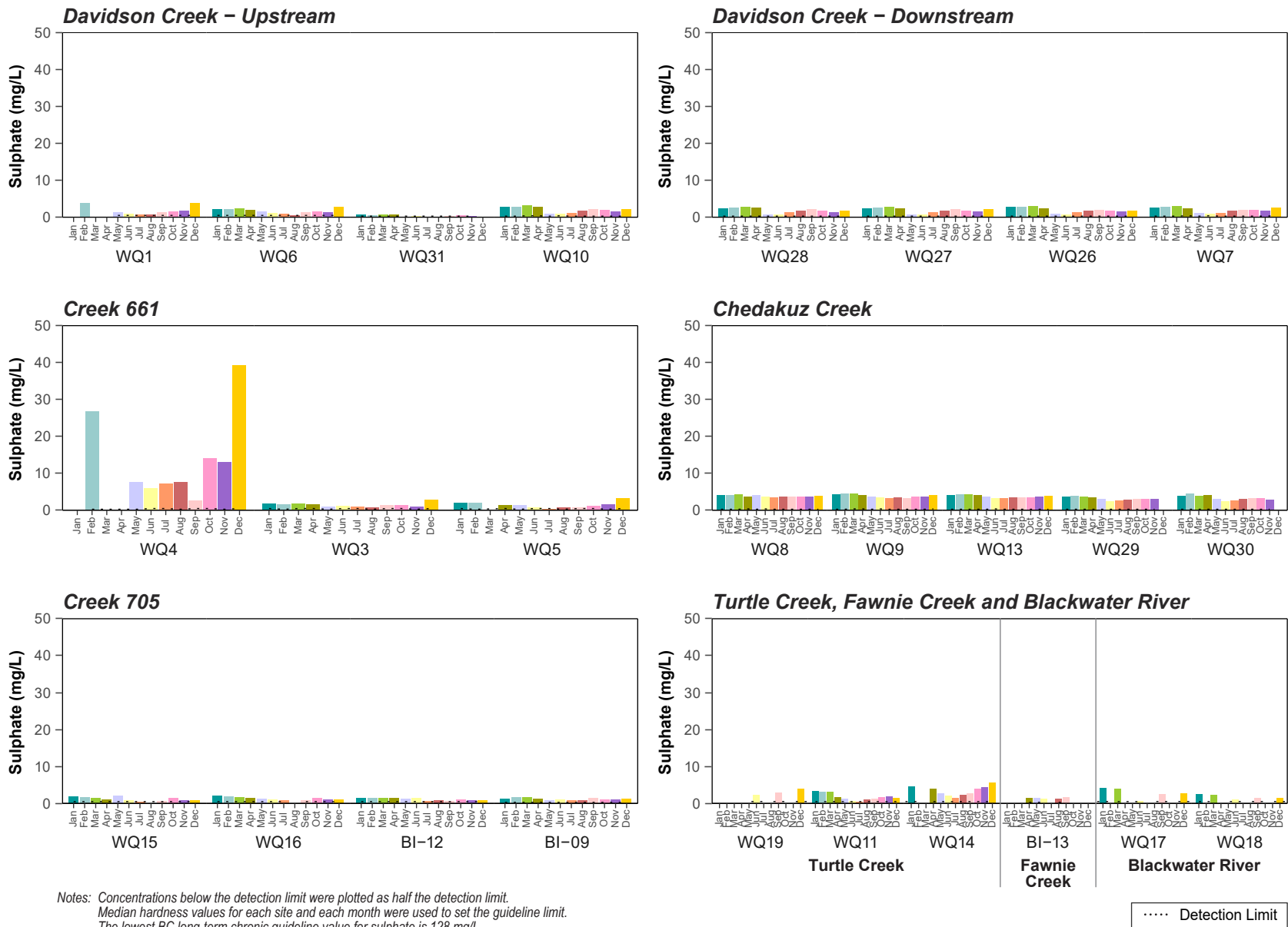


Figure 4.1-16: Monthly Mean Sulphate Concentrations, Blackwater Gold Project Streams, 2011 to 2020

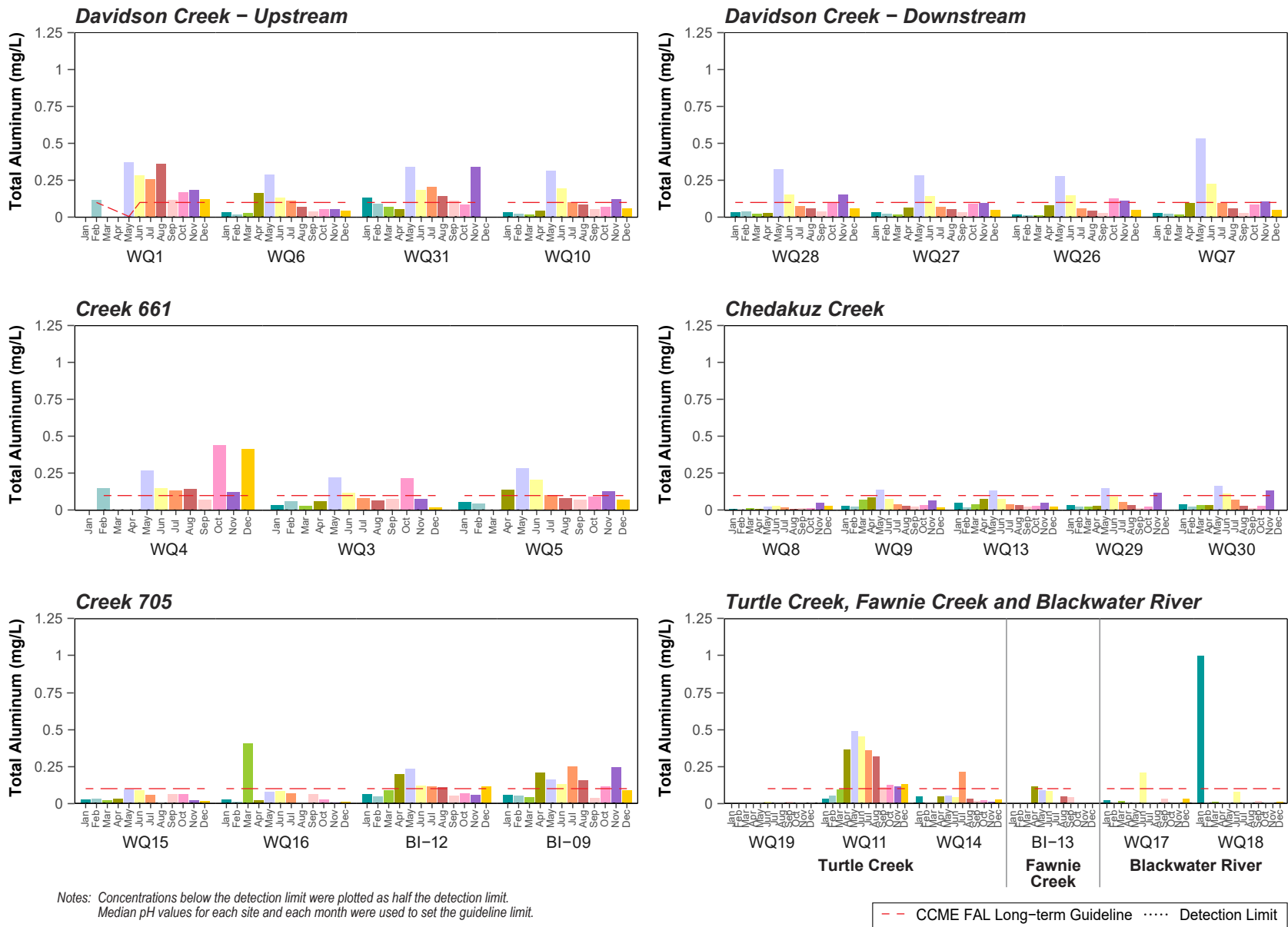


Figure 4.1-17: Monthly Mean Total Aluminum Concentrations, Blackwater Gold Project Streams, 2011 to 2020

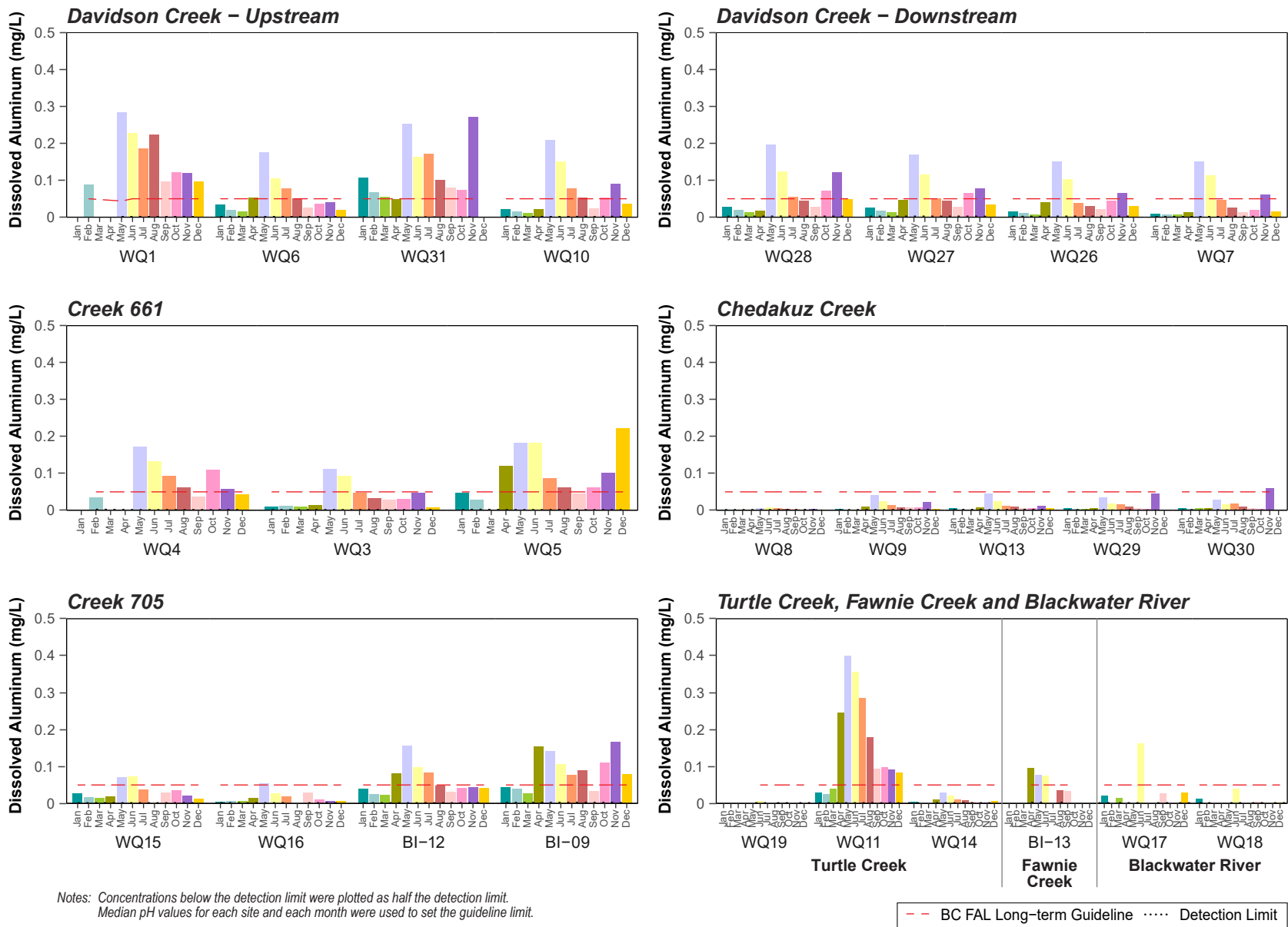


Figure 4.1-18: Monthly Mean Dissolved Aluminum Concentrations, Blackwater Gold Project Streams, 2011 to 2020

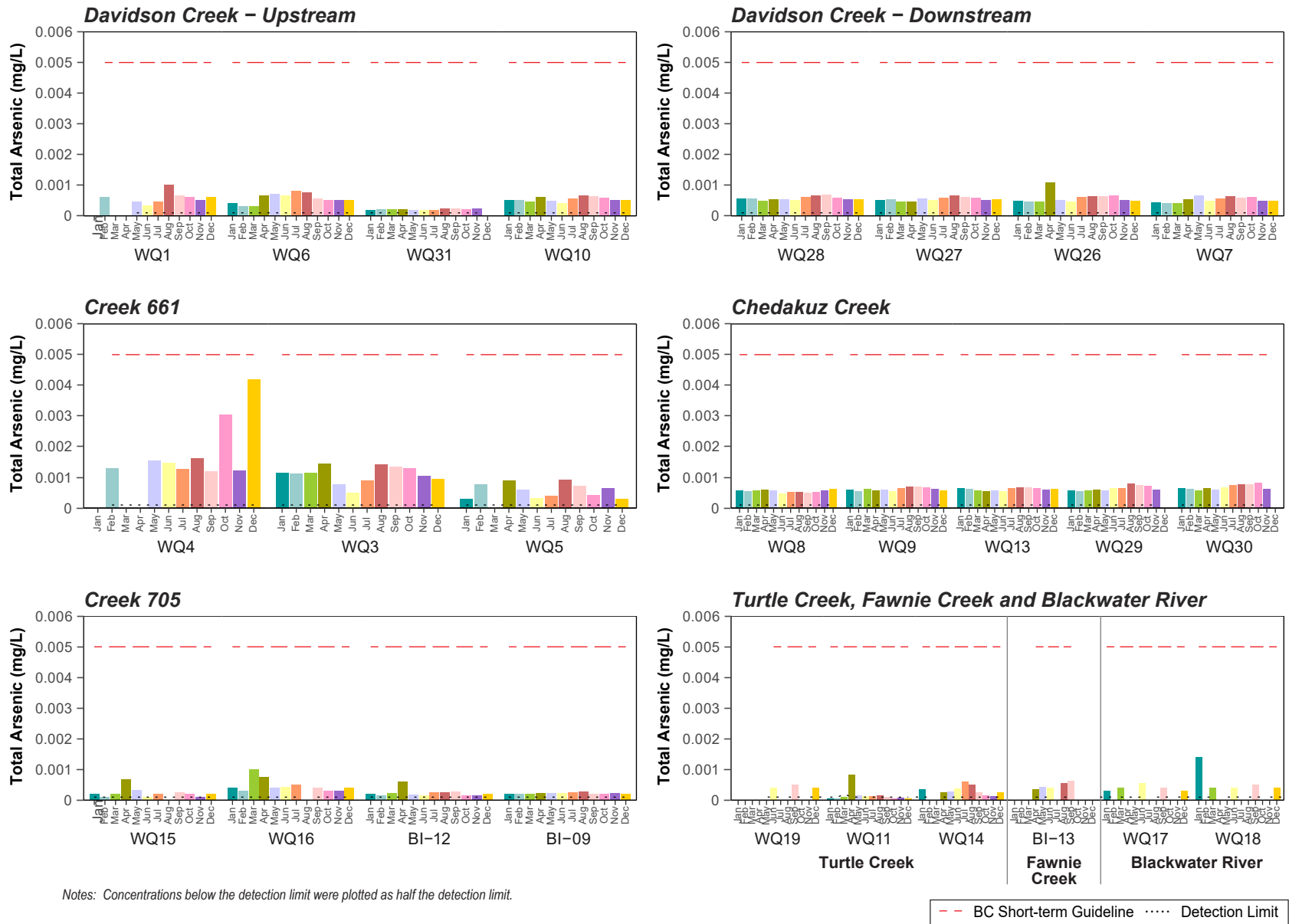


Figure 4.1-19: Monthly Mean Total Arsenic Concentrations, Blackwater Gold Project Streams, 2011 to 2020



Figure 4.1-20: Monthly Mean Total Cadmium Concentrations, Blackwater Gold Project Streams, 2011 to 2020

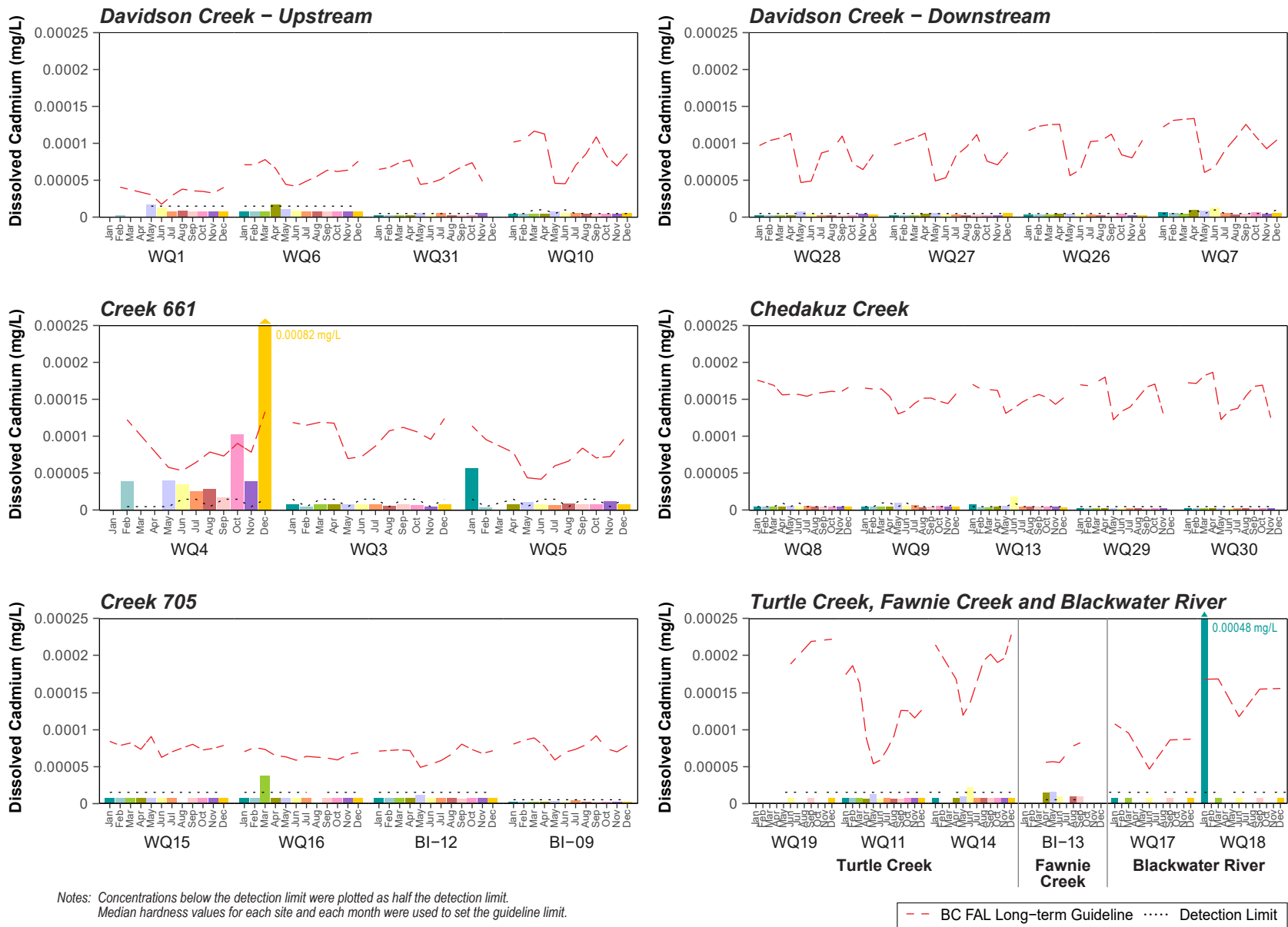


Figure 4.1-21: Monthly Mean Dissolved Cadmium Concentrations, Blackwater Gold Project Streams, 2011 to 2020

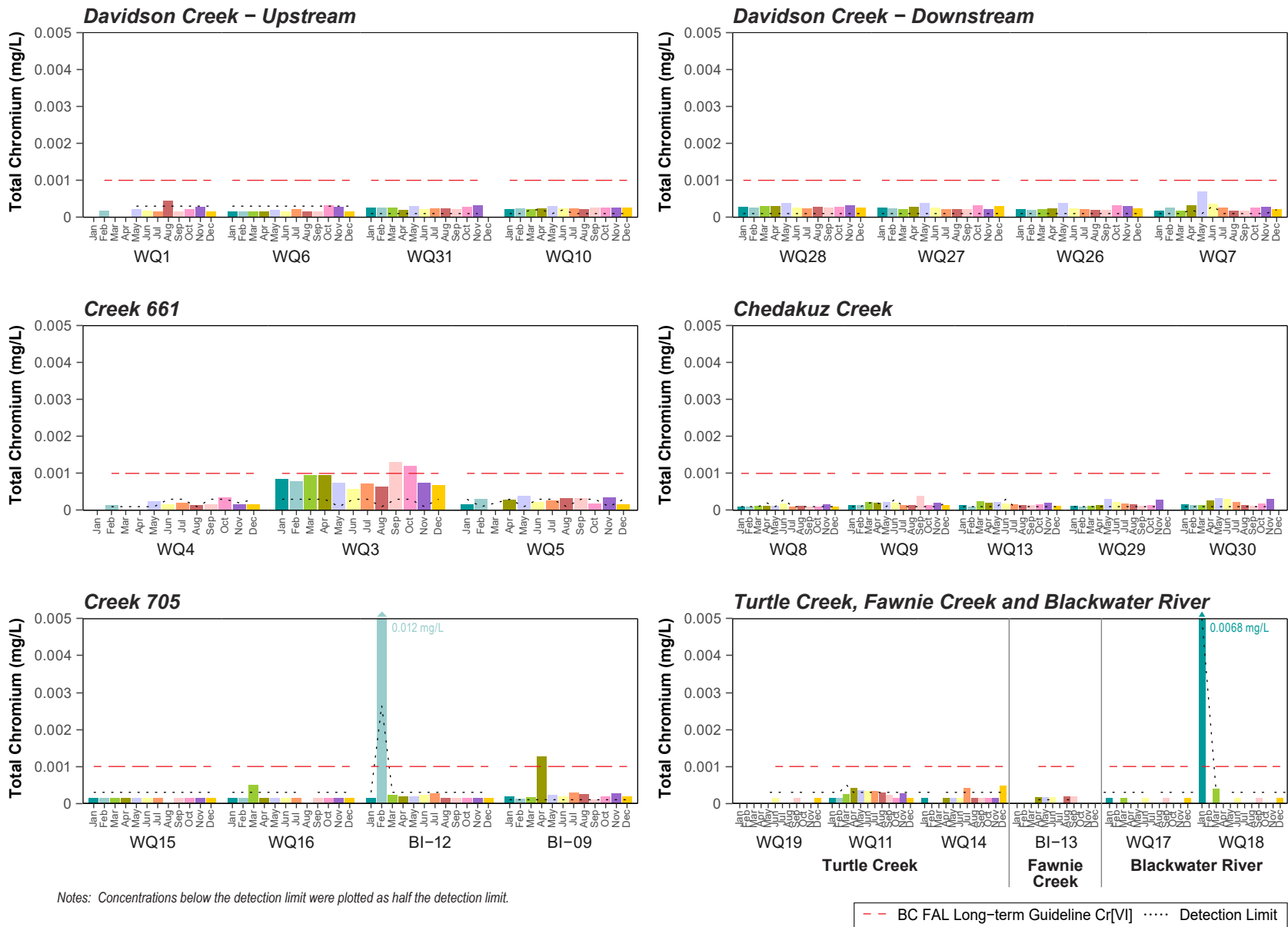


Figure 4.1-22: Monthly Mean Total Chromium Concentrations, Blackwater Gold Project Streams, 2011 to 2020

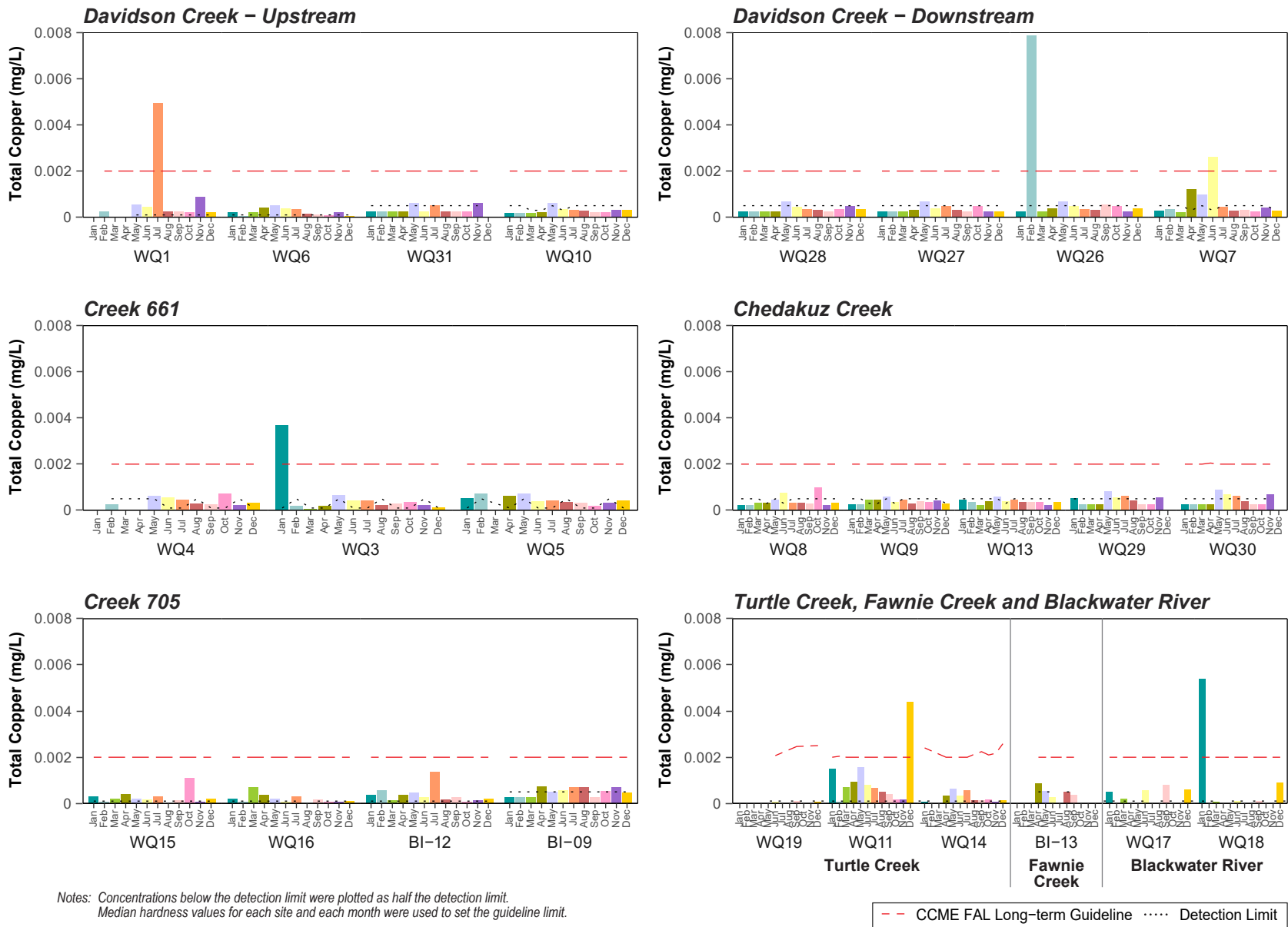


Figure 4.1-23: Monthly Mean Total Copper Concentrations, Blackwater Gold Project Streams, 2011 to 2020

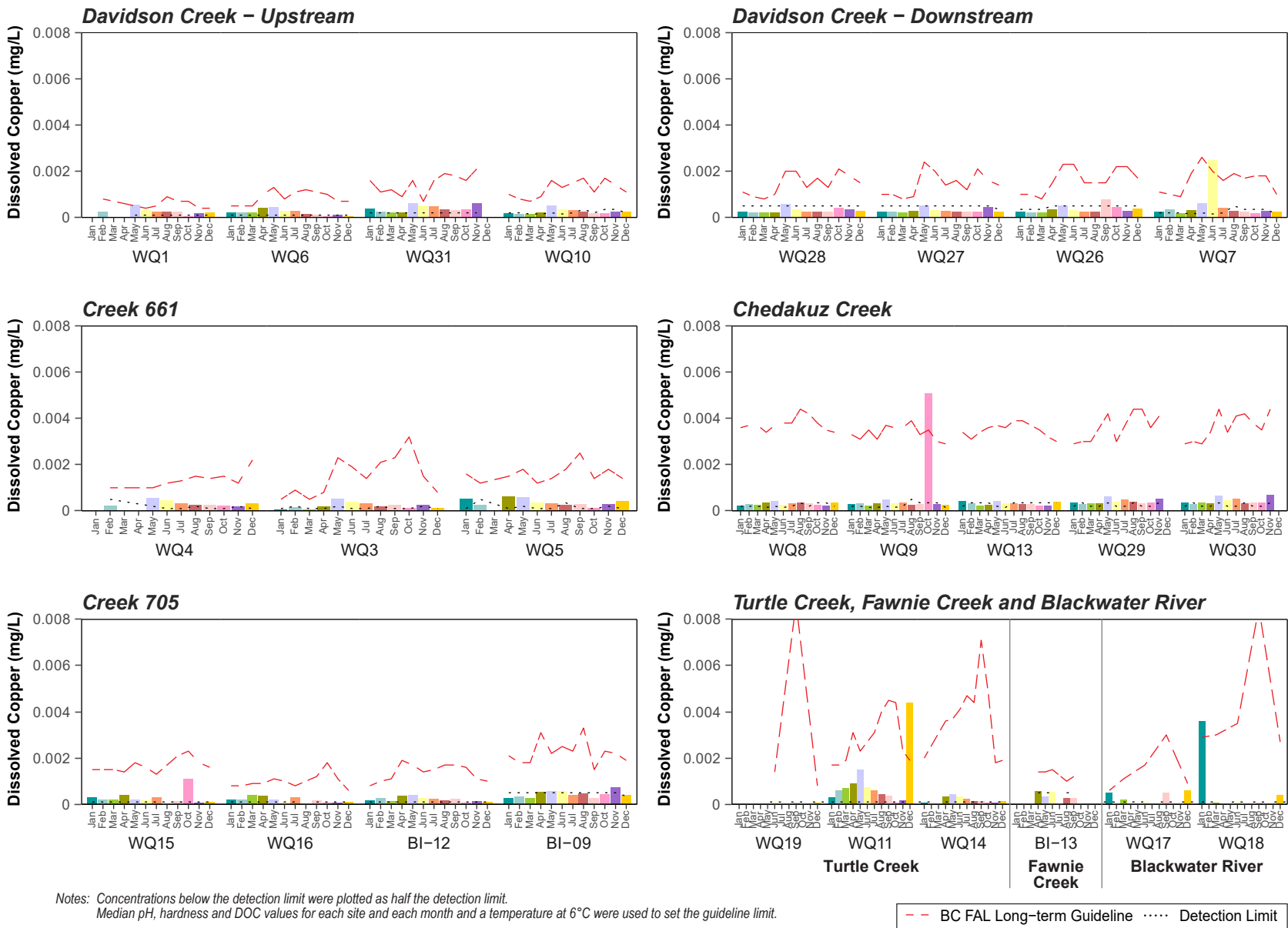


Figure 4.1-24: Monthly Mean Dissolved Copper Concentrations, Blackwater Gold Project Streams, 2011 to 2020

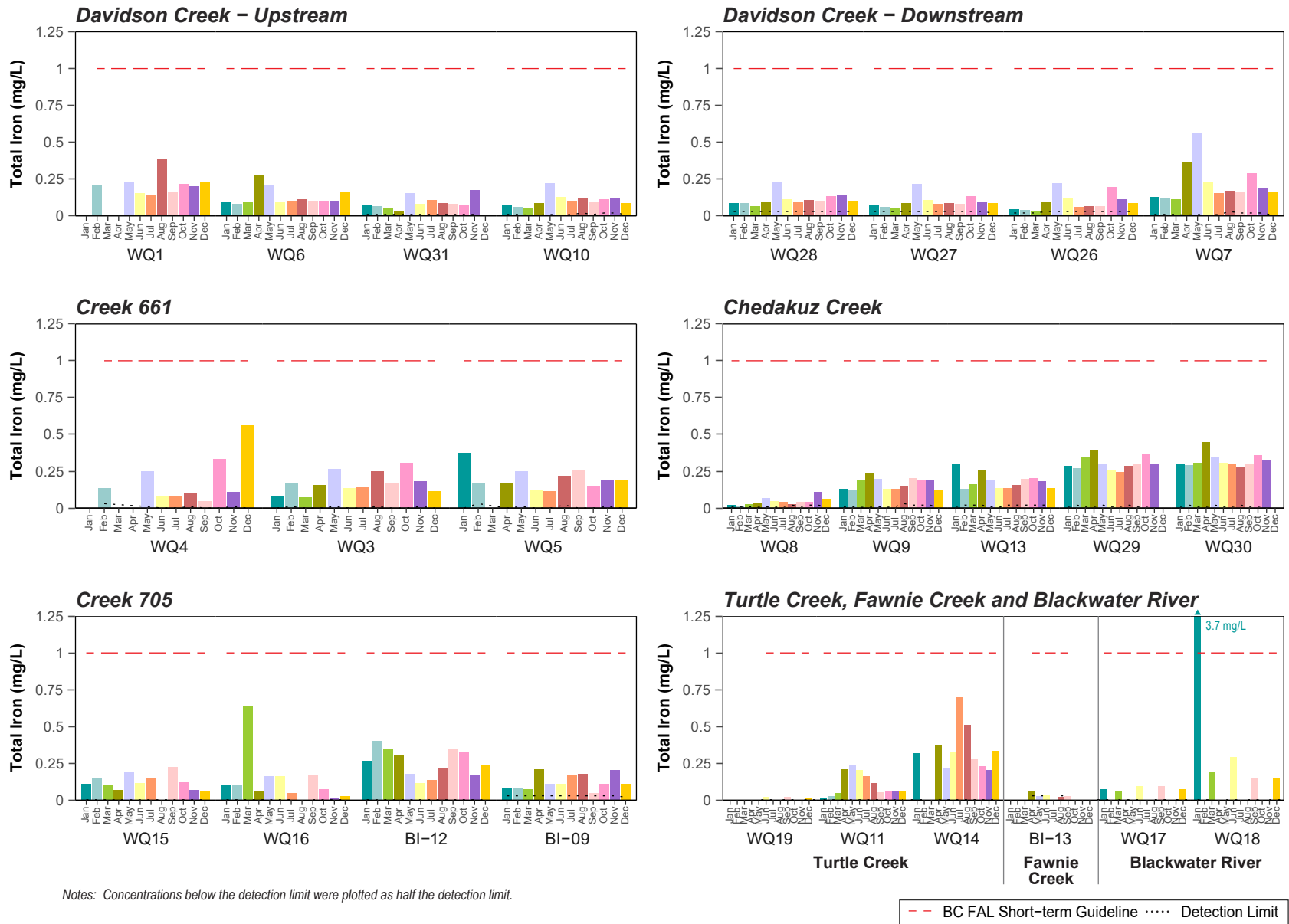
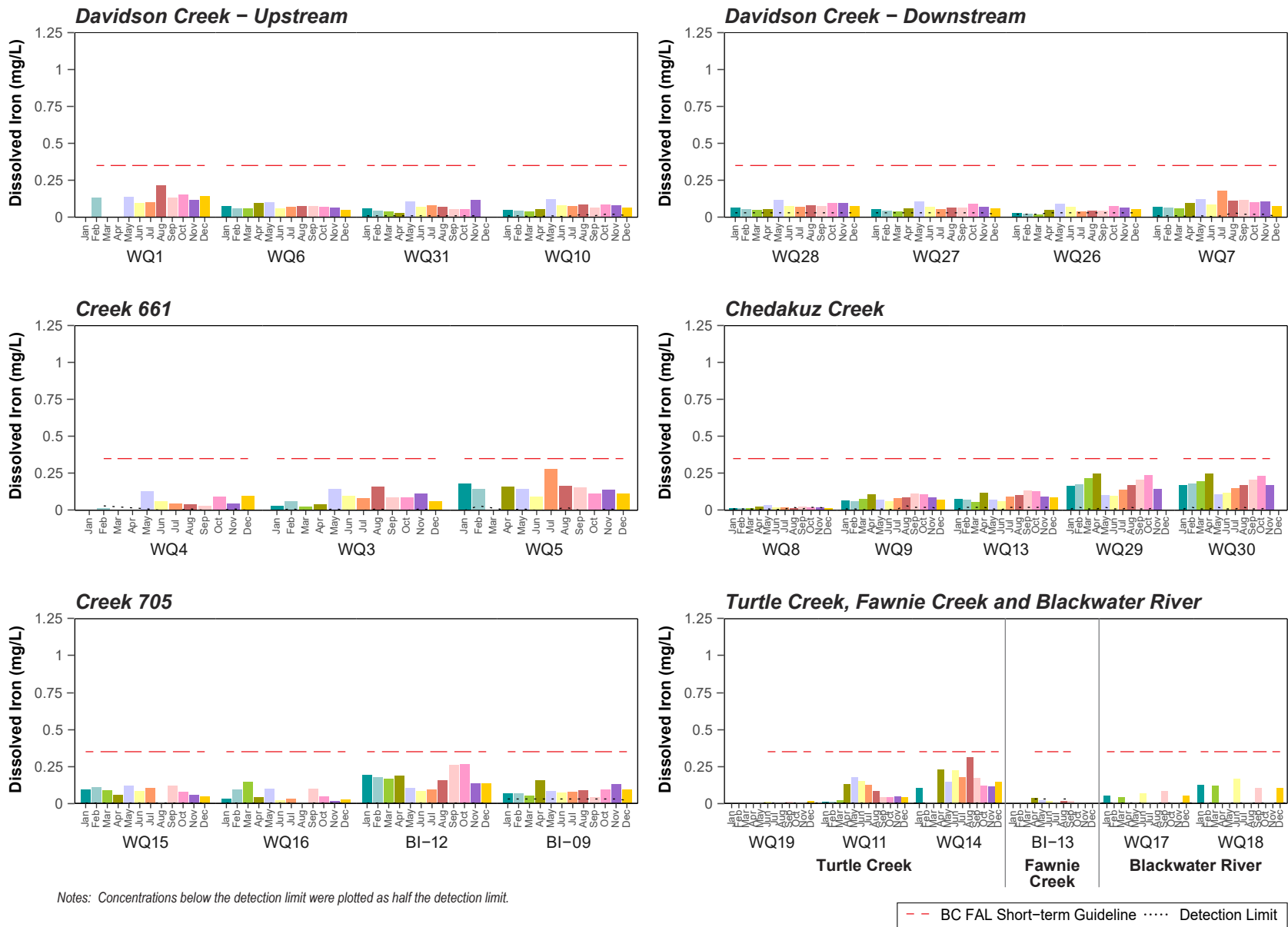


Figure 4.1-25: Monthly Mean Total Iron Concentrations, Blackwater Gold Project Streams, 2011 to 2020



Notes: Concentrations below the detection limit were plotted as half the detection limit.

--- BC FAL Short-term Guideline Detection Limit

Figure 4.1-26: Monthly Mean Dissolved Iron Concentrations, Blackwater Gold Project Streams, 2011 to 2020

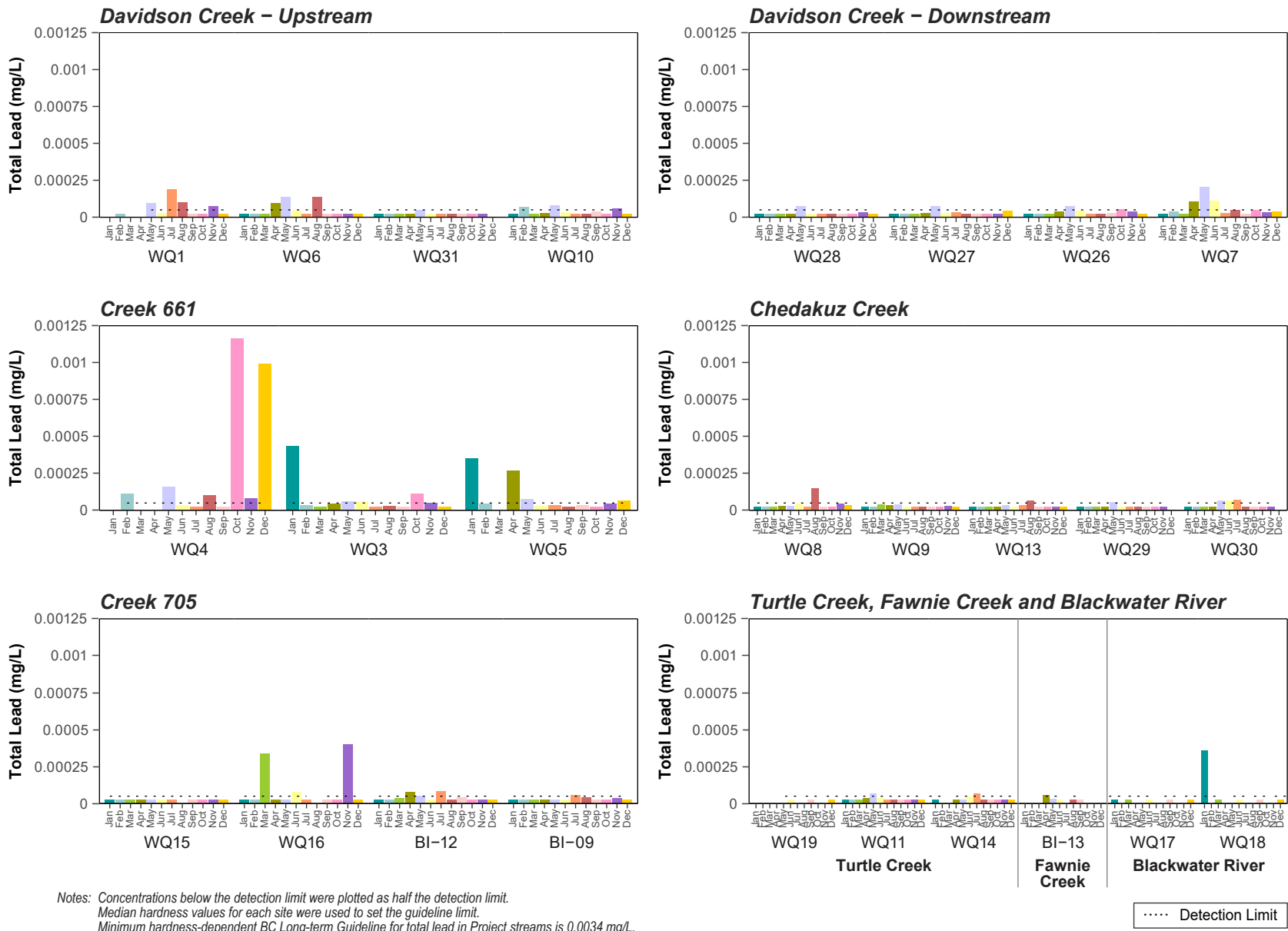


Figure 4.1-27: Monthly Mean Total Lead Concentrations, Blackwater Gold Project Streams, 2011 to 2020

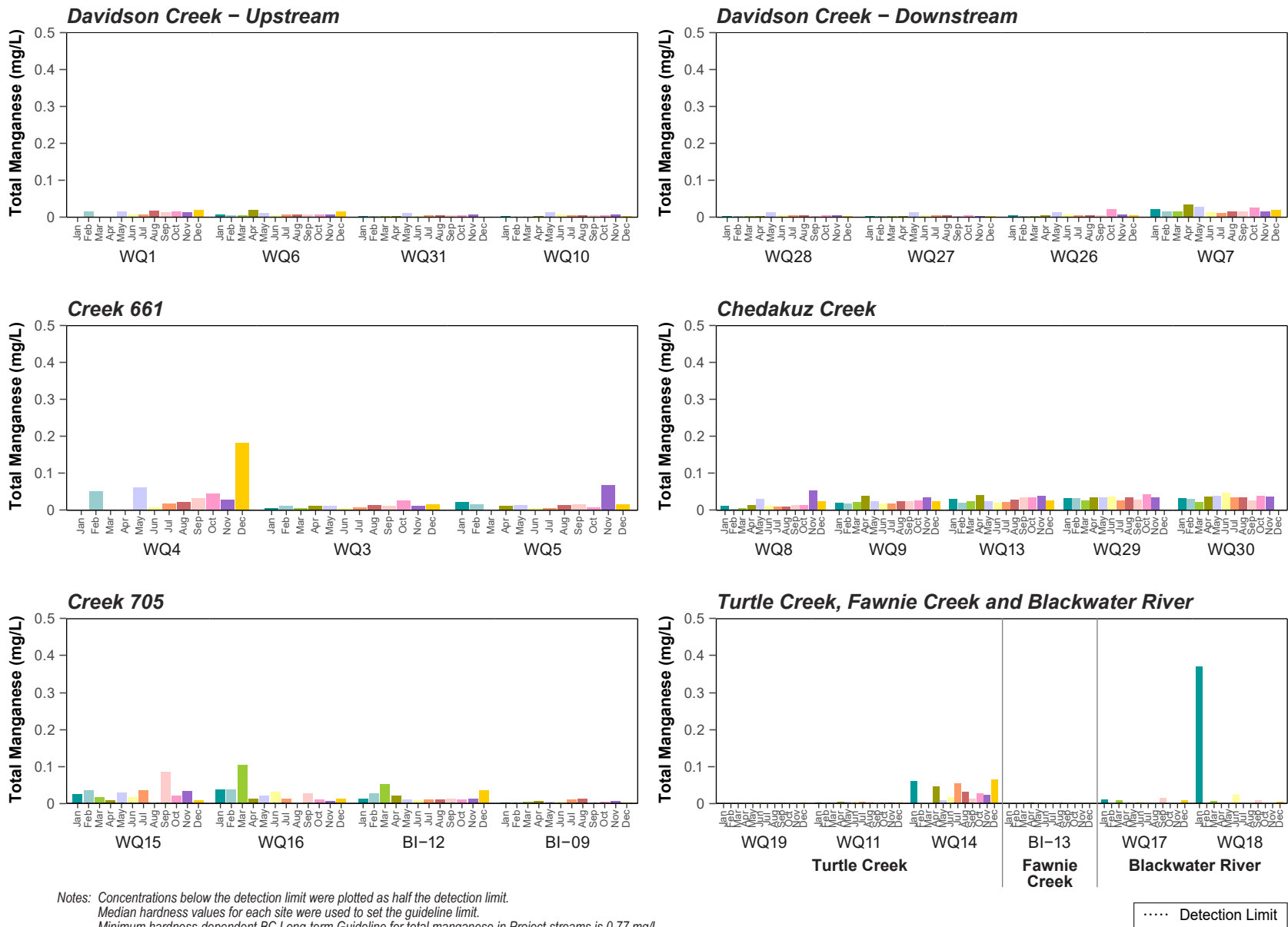


Figure 4.1-28: Monthly Mean Total Manganese Concentrations, Blackwater Gold Project Streams, 2011 to 2020

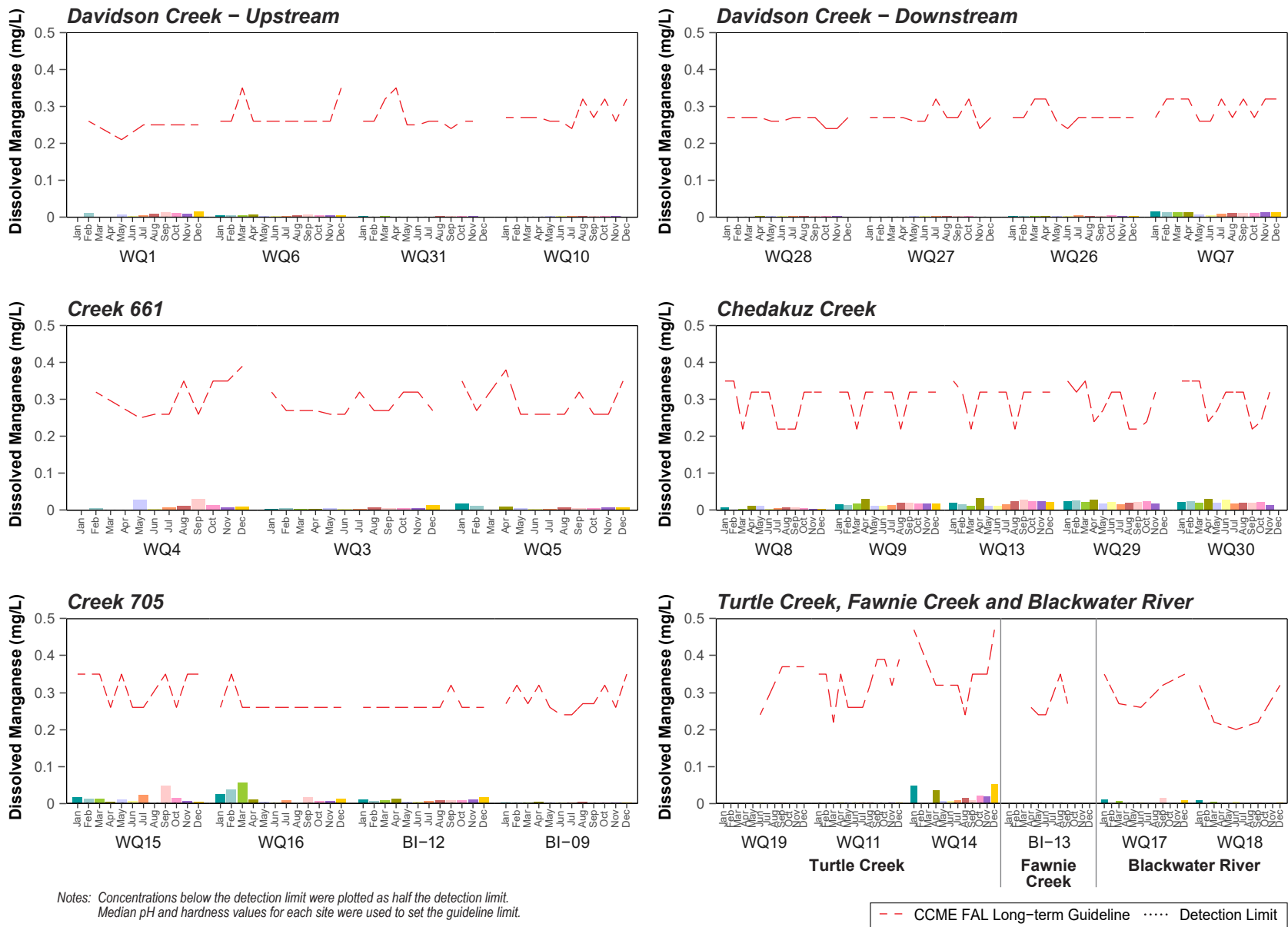


Figure 4.1-29: Monthly Mean Dissolved Manganese Concentrations, Blackwater Gold Project Streams, 2011 to 2020

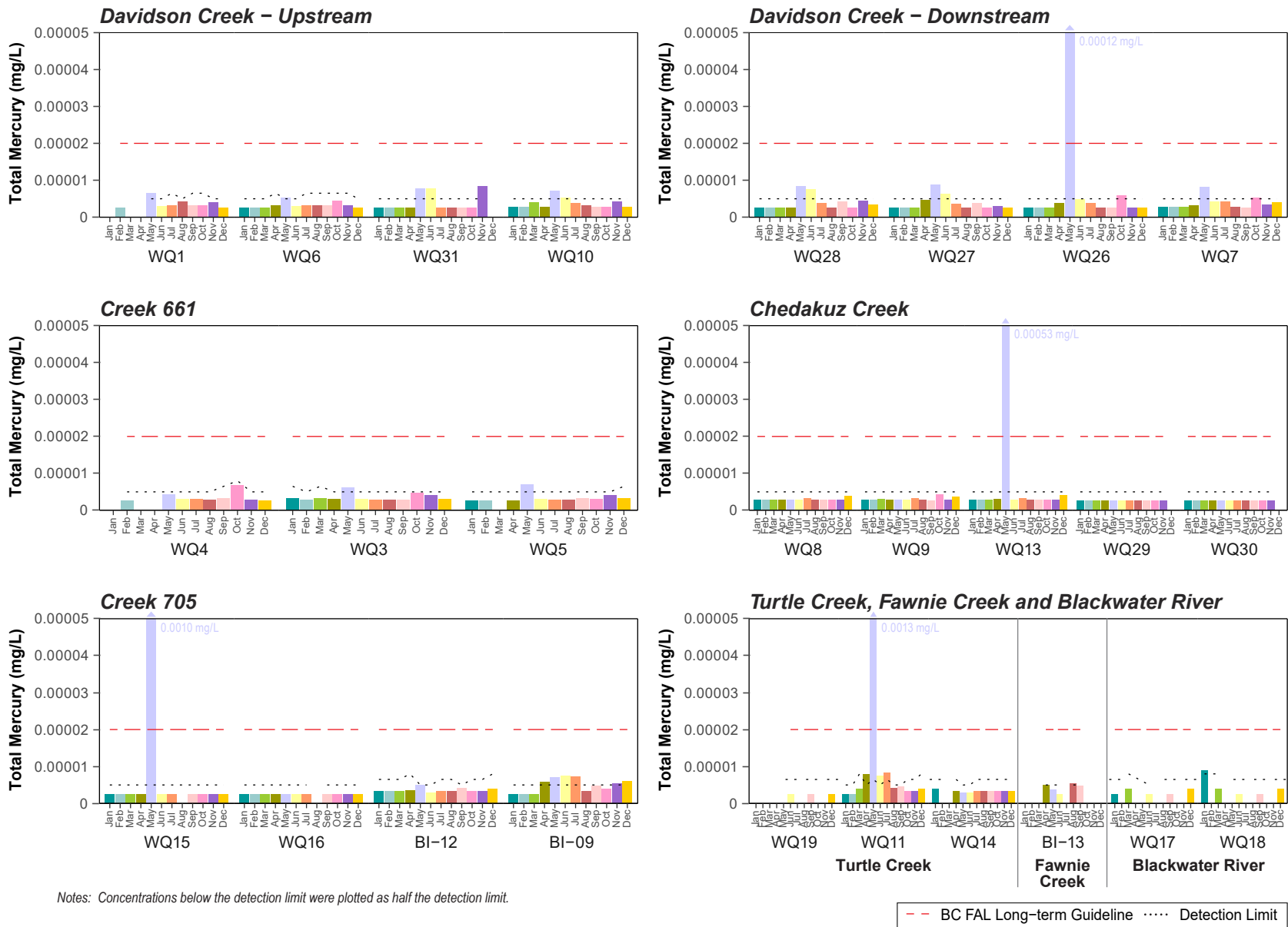


Figure 4.1-30: Monthly Mean Total Mercury Concentrations, Blackwater Gold Project Streams, 2011 to 2020

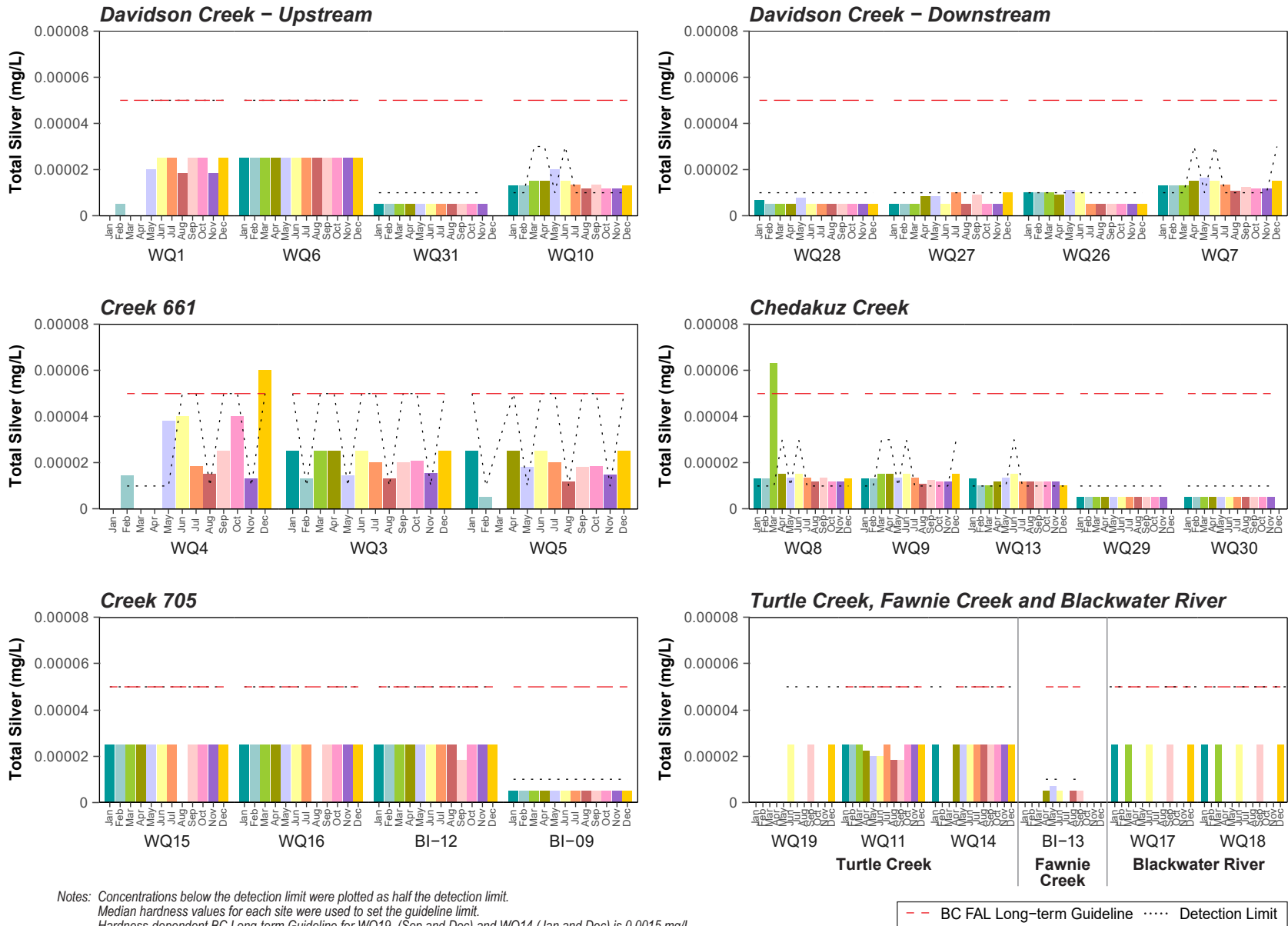


Figure 4.1-31: Monthly Mean Total Silver Concentrations, Blackwater Gold Project Streams, 2011 to 2020

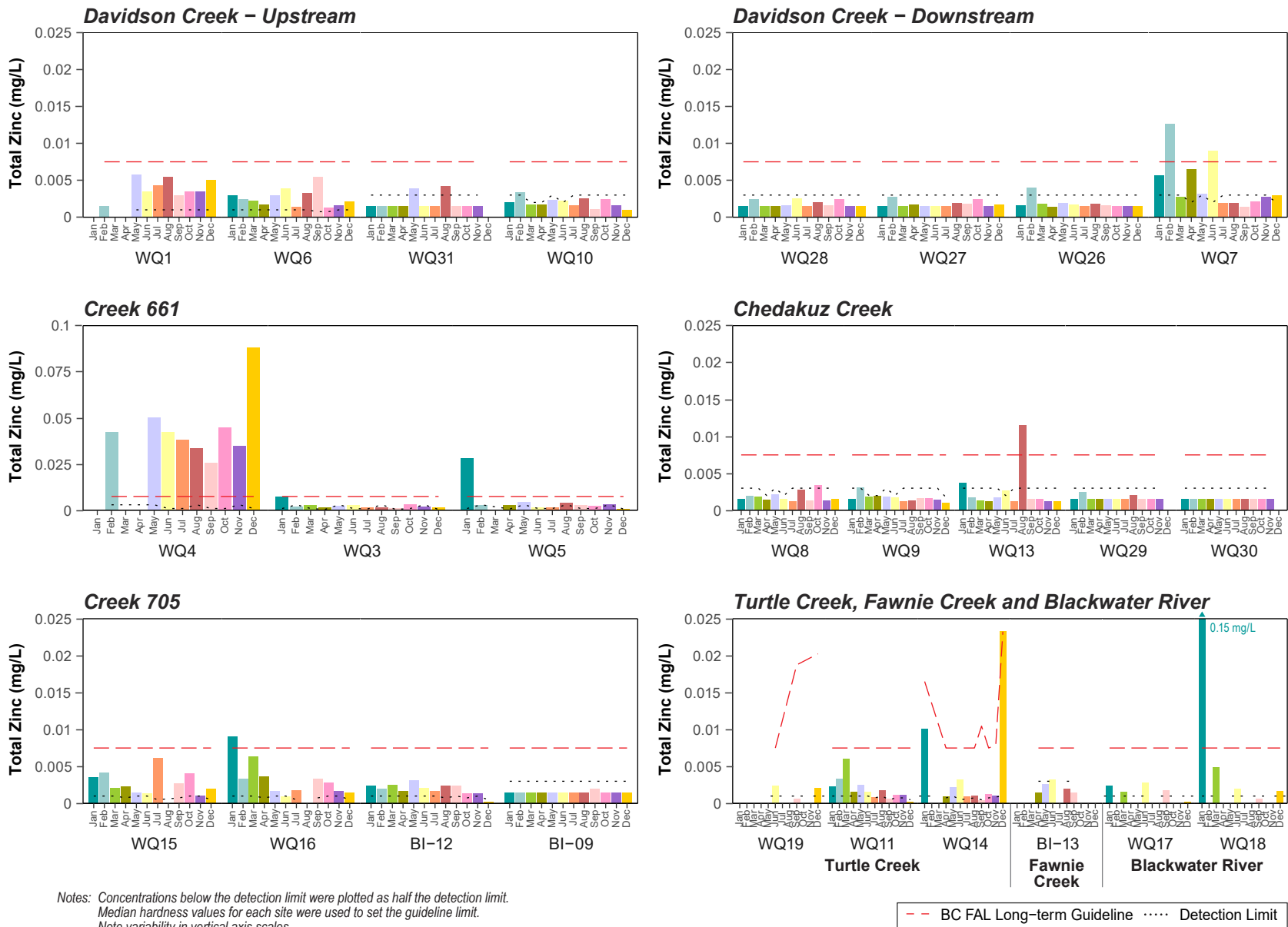


Figure 4.1-32: Monthly Mean Total Zinc Concentrations, Blackwater Gold Project Streams, 2011 to 2020

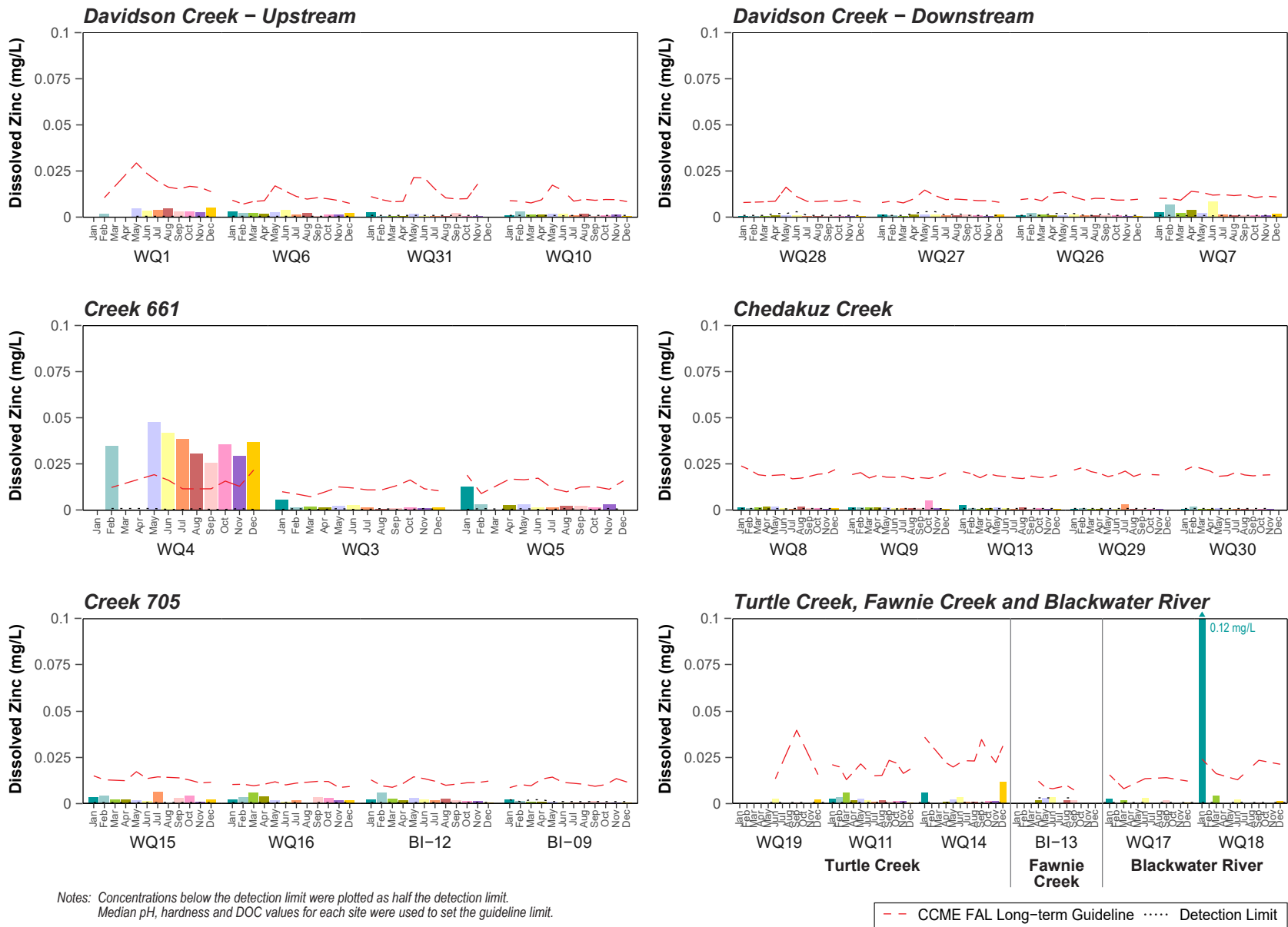


Figure 4.1-33: Monthly Mean Dissolved Zinc Concentrations, Blackwater Gold Project Streams, 2011 to 2020

If measurements were below the analytical detection limit, but the detection limit was above the applicable guideline value, the measurement was excluded from exceedance calculations.

This procedure affected the following parameters:

- WAD cyanide: the detection limit for WAD cyanide was equivalent to the BC water quality guideline (0.005 mg/L). Concentrations of WAD cyanide have been below the detection limit (<0.005 mg/L) in all samples collected from Project streams (see Section 4.1.6). Due to uncertainty near the detection limit, exceedance calculations were not performed for this parameter.
- Dissolved copper: samples collected at BI-13 in August 2016 and WQ7 in April 2017 measured dissolved copper at <0.0005 mg/L, which was greater than the BC long-term guideline of 0.0003 mg/L. These two samples were excluded from exceedance calculations, although they were plotted at half the detection limit in Figure 4.1-24.
- Total mercury: two samples collected in October 2017 at WQ26 and WQ7, and in May 2019 at WQ7 in Davidson Creek had analytical detection limit values of 0.000025 mg/L, above the BC water quality guideline of 0.00002 mg/L. These two samples were excluded from exceedance calculations, although they were plotted at half the detection limit in Figure 4.1-30.
- Total silver: for samples collected from 2011 to 2014, the detection limit for total silver was equivalent to the BC water quality guideline (0.00005 mg/L at hardness <100 mg/L). As variability near the detection limit is high (ENV 2013), values below the detection limit but greater than guideline limits were excluded from exceedance calculations rather than assuming that the total silver concentrations were below the water quality guideline. The samples were plotted at half the detection limit in Figure 4.1-31. After 2014, a lowered detection limit of 0.00001 mg/L was consistently achieved for total silver.

Mean factors and frequency calculations of collected samples with concentrations naturally exceeding guidelines are presented in Table 4.1-1 for Project stream sampling sites. All parameters for which guideline exceedances were observed at least once (17 in total) are presented in Table 4.1-1. Parameters for which no exceedances were observed in Project streams were excluded from the table.

The most commonly observed guideline exceedances in Project streams were for total and dissolved aluminum, total cadmium, total chromium, total and dissolved copper, and total and dissolved zinc; guideline exceedances for each of these parameters were observed in all Project watersheds. Dissolved cadmium, total chromium, and total and dissolved iron concentrations were also above guidelines in most watersheds. Other parameters observed above guidelines were nitrite, total arsenic, dissolved cadmium, total and dissolved iron, total mercury, total selenium, and total silver; pH values were also observed below the BC lower guideline limit.

Occurrences of guideline exceedances varied among Project streams; however, the highest frequencies and factors of exceedances were typically observed at upstream sites in the Creek 661 watershed (including WQ4 and WQ3) and the Davidson Creek watershed (WQ1). Elevated total and dissolved metal concentrations at these upstream locations were attributed to mineralization due to the proximity of the Blackwater deposit, combined with minimal streamflow at these headwater sites.

Individual parameters are discussed in the following sections.

4.1.3 *Physical Parameters*

4.1.3.1 *pH and Alkalinity*

Most streams in the Project area were near-neutral to slightly alkaline with low sensitivity to acid inputs (Figures 4.1-1 to 4.1-2). The lowest mean monthly pH values were observed at the furthest upstream sites in the Creek 661 and Davidson Creek watersheds, closest to the deposit. At upper Davidson Creek site WQ1, measured pH values were below the BC lower limit of 6.5 in 31.3% of samples (Table 4.1-1). pH values were within the BC guideline range at all other Project sites.

Mean monthly alkalinity values were lowest in the Creek 661 and Creek 705 watersheds, and in Davidson Creek upstream of WQ10. Alkalinity values increased progressively downstream of WQ10 and mean monthly values were above 20 mg/L as CaCO₃, indicating low sensitivity to acid inputs, year-round in Chedakuz Creek. Alkalinity was seasonally variable in Project streams and was generally inversely related to streamflows; the lowest mean alkalinity values were measured during freshet in May and June.

4.1.3.2 *Hardness and Total Dissolved Solids*

Stream hardness in the Project area was typically soft to moderately hard (Figure 4.1-3). Hardness concentrations followed a similar spatial and temporal pattern to alkalinity; hardness concentrations were lowest during freshet and highest during low flow periods. Similar to alkalinity, stream hardness was lowest in the Creek 661 and Creek 705 and Davidson Creek watersheds—monthly mean stream hardness was classified as soft (< 60 mg/L as CaCO₃) in these streams for all months. Monthly mean stream hardness was moderately hard (61 to 120 mg/L as CaCO₃) for some months Chedakuz Creek, Turtle Creek, Fawnie Creek and Blackwater River reference sites.

Total dissolved solids (TDS) followed the same pattern as hardness and alkalinity, although with more variability (Figure 4.1-4). The reduction in TDS values during freshet and other high flow periods can be attributed to dilution of surface waters as a result of snowmelt and rainfall runoff inputs to the streams.

4.1.4 *Suspended Material*

Total suspended solids (TSS) and turbidity were generally low in Project streams (Figures 4.1-5 and 4.1-6). Concentrations of TSS were below the detection limit in 62% of all stream samples collected for the Project. Suspended material was associated with the hydrological regime, with elevated TSS concentrations corresponding to elevated streamflows in April through June, depending on the year, representing freshet (Section 4.1.1). During periods of increased runoff, such as freshet, sediment is deposited in Project streams, resulting in brief periods of elevated TSS concentrations.

In 2017, peaks in suspended material were also observed in October and November, primarily at downstream sites in Davidson and Chedakuz creeks (Appendix A). These peaks were likely related to fall rainfall events.

Elevated mean monthly TSS concentrations and turbidity values during other months were restricted to individual sites and were typically the result of one sample weighting the average value. In December 2011, elevated TSS concentrations and turbidity values were measured at WQ4 (Creek 661) and WQ8 (Chedakuz Creek). In October 2012 and March 2013, the TSS concentrations at WQ16 (Creek 705) were elevated. In January 2013, one sample collected from Blackwater River reference site WQ18 was substantially elevated in TSS (74 mg/L) and turbidity (44 NTU). These individual measurements were likely the result of sample contamination by sediment.

Table 4.1-1: Summary of Stream Water Quality Frequency and Magnitude of Guideline Exceedances, Blackwater Gold Project, 2011 to 2020

Watershed	Site	Parameter	pH	Nitrite	Total Aluminum	Dissolved Aluminum		Total Arsenic	Total Cadmium		Dissolved Cadmium		Total Chromium	Total Copper
		Guideline	BC Lower Limit	BC Long-term Chronic	CCME Long-term	BC Long-term Chronic	BC Short-term Acute	BC	CCME Long-term	CCME Short-term	BC Long-term Chronic	BC Short-term Acute	BC Interim (Cr[VI])	CCME Long-term
Creek 661 Watershed	All Sites	Factor	-	1.10	2.34	2.61	1.73	1.38	2.54	1.15	2.45	1.71	1.47	2.38
		Frequency (%)	0	0.645	56.1	65.1	37.5	0.645	14.8	0.645	4.52	2.58	5.16	1.29
	WQ4	Factor	-	-	2.66	2.73	1.67	1.38	2.67	1.15	2.45	1.71	-	-
		Frequency (%)	0	0	72.1	73.8	50.0	2.33	48.8	2.33	16.3	9.30	0	0
	WQ3	Factor	-	1.10	1.96	1.99	1.37	-	1.06	-	-	-	1.47	3.65
		Frequency (%)	0	1.75	47.4	48.2	19.6	0	1.75	0	0	0	14.0	1.75
	WQ5	Factor	-	-	2.34	2.93	1.95	-	1.33	-	-	-	-	1.10
		Frequency (%)	0	0	52.7	75.9	46.3	0	1.82	0	0	0	0	1.82
Davidson Creek Watershed	All Sites	Factor	1.02	-	5.57	3.03	1.83	-	1.26	-	1.15	1.00	1.51	7.38
		Frequency (%)	2.15	0	45.6	49.0	34.9	0	1.29	0	1.29	0.215	1.08	1.29
	WQ1	Factor	1.02	-	22.5	4.56	2.50	-	1.37	-	1.15	1.00	-	2.73
		Frequency (%)	31.3	0	96.9	100	90.3	0	12.5	0	18.8	3.13	0	6.25
	WQ6	Factor	-	-	2.11	2.58	1.52	-	1.05	-	-	-	-	-
		Frequency (%)	0	0	57.6	59.4	40.6	0	3.03	0	0	0	0	0
	WQ31	Factor	-	-	2.07	2.69	1.93	-	-	-	-	-	-	-
		Frequency (%)	0	0	63.6	90.9	45.5	0	0	0	0	0	0	0
	WQ10	Factor	-	-	2.40	3.12	1.82	-	-	-	-	-	-	-
		Frequency (%)	0	0	43.5	46.2	35.2	0	0	0	0	0	0	0
	WQ28	Factor	-	-	2.57	3.02	1.74	-	-	-	-	-	-	-
		Frequency (%)	0	0	40.0	47.3	36.4	0	0	0	0	0	0	0
	WQ27	Factor	-	-	2.29	2.63	1.66	-	-	-	-	-	-	-
		Frequency (%)	0	0	38.2	47.1	29.4	0	0	0	0	0	0	0
	WQ26	Factor	-	-	2.45	2.66	1.65	-	-	-	-	-	-	8.71
		Frequency (%)	0	0	36.5	39.2	24.3	0	0	0	0	0	0	2.70
	WQ7	Factor	-	-	3.74	2.61	1.55	-	1.04	-	-	-	1.51	10.7
		Frequency (%)	0	0	40.0	37.4	25.3	0	1.00	0	0	0	5.00	2.00
Turtle Creek Watershed	All Sites	Factor	-	-	3.73	5.42	3.05	-	1.73	-	1.49	-	1.27	3.38
		Frequency (%)	0	0	51.3	53.9	46.1	0	1.28	0	1.30	0	1.28	2.56
	WQ19	Factor	-	-	-	-	-	-	-	-	-	-	-	-
		Frequency (%)	0	0	0	0	0	0	0	0	0	0	0	0
	WQ11	Factor	-	-	3.85	5.52	3.05	-	1.73	-	1.49	-	1.27	3.38
		Frequency (%)	0	0	82.2	90.9	79.5	0	2.22	0	2.22	0	2.22	4.44
	WQ14	Factor	-	-	2.25	1.20	-	-	-	-	-	-	-	-
		Frequency (%)	0	0	10.0	3.45	0	0	0	0	0	0	0	0

Notes:

Refer to Appendix A for specific guidelines.

Values below the detection limit were replaced with half the detection limit for calculations.

Only parameters above guidelines are included in table.

Samples with detection limits greater than guideline values were excluded from factor and frequency calculations.

Factor represents the average magnitude of samples above guideline concentrations (for pH BC Lower Limit, it represents the average factor below the lower limit).

Frequency (%) represents percentage of samples collected at each site that were higher than available guidelines.

Table 4.1-1: Summary of Stream Water Quality Frequency and Magnitude of Guideline Exceedances, Blackwater Gold Project, 2011 to 2020

Watershed	Site	Dissolved Copper		Total Iron	Dissolved Iron	Total Mercury	Total Silver		Total Zinc		Dissolved Zinc	
		BC Long-term Chronic	BC Short-term Acute	BC Short-term Acute	BC Short-term Acute	BC Long-term Chronic	BC Long-term Chronic	BC Short-term Acute	BC Long-term Chronic	BC Short-term Acute	CCME Long-term	CCME Short-term
Creek 661 Watershed	All Sites	1.57	-	-	1.71	-	1.93	1.37	5.31	1.46	2.44	1.48
		0.645	0	0	1.29	0	5.16	1.94	31.0	20.6	27.7	12.9
	WQ4	1.57	-	-	-	-	1.93	1.37	5.71	1.46	2.44	1.48
		2.33	0	0	0	0	18.6	6.98	100	74.4	100	46.5
	WQ3	-	-	-	-	-	-	-	1.41	-	-	-
		0	0	0	0	0	0	0	5.26	0	0	0
	WQ5	-	-	-	1.71	-	-	-	2.60	-	-	-
0		0	0	3.64	0	0	0	3.64	0	0	0	
Davidson Creek Watershed	All Sites	2.78	2.20	1.34	1.68	51.1	1.60	-	2.95	2.22	1.98	1.25
		2.15	0.215	1.29	0.430	0.430	0.215	0	3.66	0.645	1.08	0.215
	WQ1	1.65	-	-	1.24	-	-	-	1.29	-	-	-
		28.1	0	0	3.13	0	0	0	9.38	0	0	0
	WQ6	-	-	-	-	-	-	-	2.15	-	1.32	-
		0	0	0	0	0	0	0	6.06	0	3.03	0
	WQ31	-	-	-	-	-	-	-	-	-	-	-
		0	0	0	0	0	0	0	0	0	0	0
	WQ10	-	-	-	-	-	1.60	-	1.30	-	1.10	-
		0	0	0	0	0	1.09	0	2.17	0	1.09	0
	WQ28	-	-	-	-	-	-	-	-	-	-	-
		0	0	0	0	0	0	0	0	0	0	0
	WQ27	-	-	-	-	-	-	-	-	-	-	-
		0	0	0	0	0	0	0	0	0	0	0
	WQ26	-	-	-	-	100	-	-	1.19	-	-	-
		0	0	0	0	1.35	0	0	1.35	0	0	0
	WQ7	13.0	2.20	1.34	2.13	2.10	-	-	4.24	2.22	2.49	1.25
1.00		1.00	6.00	1.00	1.00	0	0	9.00	3.00	3.00	1.00	
Turtle Creek Watershed	All Sites	3.05	-	1.33	3.26	401	-	-	1.24	-	-	-
		2.56	0	2.56	1.28	2.56	0	0	2.56	0	0	0
	WQ19	-	-	-	-	-	-	-	-	-	-	-
		0	0	0	0	0	0	0	0	0	0	0
	WQ11	3.05	-	-	-	401	-	-	-	-	-	-
		4.44	0	0	0	4.44	0	0	0	0	0	0
	WQ14	-	-	1.33	3.26	-	-	-	1.24	-	-	-
0		0	6.67	3.33	0	0	0	6.67	0	0	0	

Notes:

Refer to Appendix A for specific guidelines.

Values below the detection limit were replaced with half the detection limit for calculations.

Only parameters above guidelines are included in table.

Samples with detection limits greater than guideline values were excluded from factor and frequency calculations.

Factor represents the average magnitude of samples above guideline concentrations (for pH BC Lower Limit, it represents the average factor below the lower limit).

Frequency (%) represents percentage of samples collected at each site that were higher than available guidelines.

Table 4.1-1: Summary of Stream Water Quality Frequency and Magnitude of Guideline Exceedances, Blackwater Gold Project, 2011 to 2020

Watershed	Site	Parameter	pH	Nitrite	Total Aluminum	Dissolved Aluminum		Total Arsenic	Total Cadmium		Dissolved Cadmium		Total Chromium	Total Copper	
		Guideline	BC Lower Limit	BC Long-term Chronic	CCME Long-term	BC Long-term Chronic	BC Short-term Acute	BC	CCME Long-term	CCME Short-term	BC Long-term Chronic	BC Short-term Acute	BC Interim (Cr[VI])	CCME Long-term	
Chedakuz Creek Watershed	All Sites	Factor	-	-	1.48	1.65	1.71	-	2.12	-	1.51	-	2.15	1.83	
		Frequency (%)	0	0	14.9	2.29	0.327	0	0.324	0	0.324	0	0.324	0.971	
	WQ8	Factor	-	-	1.31	-	-	-	-	-	-	-	-	1.83	
		Frequency (%)	0	0	3.53	0	0	0	0	0	0	0	0	3.53	
	WQ9	Factor	-	-	1.55	1.24	-	-	-	-	-	-	-	2.15	-
		Frequency (%)	0	0	19.4	4.12	0	0	0	0	0	0	0	1.02	0
	WQ13	Factor	-	-	1.35	3.42	1.71	-	2.12	-	1.51	-	-	-	-
		Frequency (%)	0	0	22.6	1.20	1.20	0	1.19	0	1.19	0	0	0	0
	WQ29	Factor	-	-	1.89	1.37	-	-	-	-	-	-	-	-	-
		Frequency (%)	0	0	9.52	4.76	0	0	0	0	0	0	0	0	0
WQ30	Factor	-	-	1.79	1.81	-	-	-	-	-	-	-	-	-	
	Frequency (%)	0	0	14.3	4.76	0	0	0	0	0	0	0	0	0	
Creek 705 Watershed	All Sites	Factor	-	-	1.97	2.22	1.40	-	1.99	-	-	-	13.5	1.25	
		Frequency (%)	0	0	39.6	48.0	27.0	0	2.97	0	0	0	1.98	0.990	
	WQ15	Factor	-	-	1.16	1.59	-	-	-	-	-	-	-	-	-
		Frequency (%)	0	0	5.88	29.4	0	0	0	0	0	0	0	0	0
	WQ16	Factor	-	-	2.32	1.32	-	-	2.44	-	-	-	-	-	-
		Frequency (%)	0	0	17.6	11.8	0	0	11.8	0	0	0	0	0	0
	BI-12	Factor	-	-	1.87	2.30	1.37	-	1.10	-	-	-	-	24.7	1.25
		Frequency (%)	0	0	55.3	56.8	35.1	0	2.63	0	0	0	0	2.63	2.63
	BI-09	Factor	-	-	2.11	2.39	1.44	-	-	-	-	-	-	2.20	-
		Frequency (%)	0	0	51.7	69.0	48.3	0	0	0	0	0	0	3.45	0
Fawnie Creek (reference)	All Sites (BI-13)	Factor	-	-	1.21	1.46	1.08	-	-	-	-	-	-	-	
		Frequency (%)	0	0	15.4	61.5	7.69	0	0	0	0	0	0	0	
Blackwater River (reference)	All Sites	Factor	-	-	6.03	3.23	1.62	-	5.35	-	2.86	1.13	6.80	2.70	
		Frequency (%)	0	0	20.0	10.0	10.0	0	10.0	0	10.0	10.0	10.0	10.0	
	WQ17	Factor	-	-	2.06	3.23	1.62	-	-	-	-	-	-	-	-
		Frequency (%)	0	0	20.0	20.0	20.0	0	0	0	0	0	0	0	0
	WQ18	Factor	-	-	10.0	-	-	-	5.35	-	2.86	1.13	6.80	2.70	
		Frequency (%)	0	0	20.0	0	0	0	20.0	0	20.0	20.0	20.0	20.0	

Notes:

Refer to Appendix A for specific guidelines.

Values below the detection limit were replaced with half the detection limit for calculations.

Only parameters above guidelines are included in table.

Samples with detection limits greater than guideline values were excluded from factor and frequency calculations.

Factor represents the average magnitude of samples above guideline concentrations (for pH BC Lower Limit, it represents the average factor below the lower limit).

Frequency (%) represents percentage of samples collected at each site that were higher than available guidelines.

Table 4.1-1: Summary of Stream Water Quality Frequency and Magnitude of Guideline Exceedances, Blackwater Gold Project, 2011 to 2020

Watershed	Site	Dissolved Copper		Total Iron	Dissolved Iron	Total Mercury	Total Silver		Total Zinc		Dissolved Zinc	
		BC Long-term Chronic	BC Short-term Acute	BC Short-term Acute	BC Short-term Acute	BC Long-term Chronic	BC Long-term Chronic	BC Short-term Acute	BC Long-term Chronic	BC Short-term Acute	CCME Long-term	CCME Short-term
Chedakuz Creek Watershed	All Sites	8.43	1.40	-	1.04	550	5.10	2.55	3.01	1.76	1.48	-
		0.324	0.324	0	0.324	0.324	0.324	0.324	1.29	0.324	0.324	0
	WQ8	-	-	-	1.04	-	5.10	2.55	1.55	-	-	-
		0	0	0	1.18	0	1.18	1.18	1.18	0	0	0
	WQ9	8.43	1.40	-	-	-	-	-	1.03	-	1.48	-
		1.02	1.02	0	0	0	0	0	1.02	0	1.02	0
	WQ13	-	-	-	-	550	-	-	4.73	1.76	-	-
		0	0	0	0	1.19	0	0	2.38	1.19	0	0
	WQ29	-	-	-	-	-	-	-	-	-	-	-
		0	0	0	0	0	0	0	0	0	0	0
WQ30	-	-	-	-	-	-	-	-	-	-	-	
	0	0	0	0	0	0	0	0	0	0	0	
Creek 705 Watershed	All Sites	-	-	-	1.18	150	-	-	1.40	-	1.02	-
		0	0	0	1.98	0.990	0	0	1.98	0	0.990	0
	WQ15	-	-	-	-	150	-	-	-	-	-	-
		0	0	0	0	5.88	0	0	0	0	0	0
	WQ16	-	-	-	-	-	-	-	1.20	-	-	-
		0	0	0	0	0	0	0	5.88	0	0	0
	BI-12	-	-	-	1.18	-	-	-	1.60	-	1.02	-
		0	0	0	5.26	0	0	0	2.63	0	2.63	0
	BI-09	-	-	-	-	-	-	-	-	-	-	-
		0	0	0	0	0	0	0	0	0	0	0
Fawnie Creek (reference)	All Sites (BI-13)	-	-	-	-	-	-	-	-	-	-	
	0	0	0	0	0	0	0	0	0	0	0	
Blackwater River (reference)	All Sites	1.24	-	3.70	-	-	-	-	19.5	4.42	4.95	1.22
		10.0	0	10.0	0	0	0	0	10.0	10.0	10.0	10.0
	WQ17	-	-	-	-	-	-	-	-	-	-	-
		0	0	0	0	0	0	0	0	0	0	0
	WQ18	1.24	-	3.70	-	-	-	-	19.5	4.42	4.95	1.22
20.0		0	20.0	0	0	0	0	20.0	20.0	20.0	20.0	

Notes:

Refer to Appendix A for specific guidelines.

Values below the detection limit were replaced with half the detection limit for calculations.

Only parameters above guidelines are included in table.

Samples with detection limits greater than guideline values were excluded from factor and frequency calculations.

Factor represents the average magnitude of samples above guideline concentrations (for pH BC Lower Limit, it represents the average factor below the lower limit).

Frequency (%) represents percentage of samples collected at each site that were higher than available guidelines.

4.1.5 *Nutrients and Organic Carbon*

Various nitrogen species were measured in Project streams, including nitrate (Figure 4.1-7), nitrite (Figure 4.1-8), ammonia (Figure 4.1-9), and Total Kjeldahl Nitrogen (TKN; Appendix B). Total nitrogen was predominantly in its organic form as represented by TKN, although in some samples nitrate was the dominant species. All nitrogen species were below applicable water quality guidelines, with the exception of nitrite, which exceeded the BC long-term average guideline (0.02 mg/L) in one sample collected at WQ3 in the Creek 661 watershed (0.022 mg/L as N; December 2012).

Seasonal variability was observed in nitrate and nitrite concentrations; higher concentrations of both N species were typically observed during winter months. Nitrite concentrations were below detection at most stream sites through the summer, and at some sites were below detection year-round (e.g., BI-13, WQ31 and both Blackwater River reference sites). Ammonia concentrations were frequently below the detection limit, particularly during winter months. The highest measured ammonia concentration was at WQ3 in the Creek 661 watershed (0.67 mg/L as N; June 2011).

Total phosphorus concentrations varied by watershed (Figure 4.1-10). Total phosphorus concentrations were highest at WQ3 (Creek 661) where mean values were above the trigger value for eutrophic conditions (0.035 mg/L). Phosphorus concentrations at other stream sites were generally in the oligotrophic to mesotrophic range of values. Phosphorus concentrations varied intra-annually, and were typically highest in April and May.

Organic carbon concentrations were high across all Project watersheds (Figure 4.1-11 and 4.1-12). Organic carbon was predominantly observed as dissolved organic carbon (DOC; Figure 4.1-12). Organic carbon concentrations were seasonally variable; the highest concentrations of TOC and DOC were typically observed during freshet months (May and June). Higher concentrations of organic carbon were also observed during late summer/early fall (September and October).

4.1.6 *Cyanides*

Monthly mean total cyanide concentrations are presented in Figure 4.1-13. Elevated total cyanide concentrations were observed Project-wide in the spring and summer of 2011, including samples collected in April, May, June, and July 2011. Total cyanide concentrations were observed up to a maximum of 0.026 mg/L (WQ11, May 2011). The cause of elevated cyanide concentrations was not identified. Total cyanide and thiocyanate concentrations were below their detection limits (0.005 and 0.5 mg/L, respectively). The majority of detected thiocyanate samples were collected in July 2011 and May to July in 2018 and 2019, indicating that environmental heterogeneity may vary substantially during freshet. Concentrations of WAD cyanide have been below the detection limit (0.005 mg/L) in all analyzed stream samples (Appendix B).

4.1.7 *Major Anions*

Monthly mean concentrations of chloride, fluoride, and sulphate presented in Figures 4.1-14 to 4.1-16. Concentrations of major anions were low in Project streams, and did not exceed BC water quality guidelines in any stream samples (Table 4.1-1).

Chloride concentrations were typically highest at headwater sites, such as WQ4 (Creek 661), WQ1 and WQ6 (Davidson Creek), and WQ19 (Turtle Creek), and were lower at downstream sites. The elevated concentration of chloride at WQ18 in January 2013 was likely the result of sample contamination by sediment.

Fluoride concentrations were comparable among all sites, except Blackwater River reference site WQ18 where monthly average fluoride concentrations were higher than other sampled sites.

Sulphate concentrations were comparable among all sampled sites. The exception was WQ4 (Creek 661), where measured sulphate concentrations were elevated compared to other sites. The maximum measured sulphate concentrations at WQ4 was 39.3 mg/L (December 2012); the maximum measured sulphate concentration across all other sampled stream sites was 6.4 mg/L (WQ14, December 2012). Elevated sulphate concentrations at WQ4 could be attributed to the site's proximity to the proposed open pit location; oxidation of sulphide minerals associated with the mineral deposit likely resulted in increased sulphate concentrations.

4.1.8 Total and Dissolved Metals

This section focusses on total and dissolved metals with identified guideline exceedances (see Table 4.1-1). Concentrations of total and dissolved aluminum, total arsenic, total and dissolved cadmium, total chromium, total and dissolved copper, total and dissolved iron, total mercury, total silver, and total and dissolved zinc exceeded BC or CCME guidelines at a minimum of one stream site, and monthly mean concentrations are plotted in Figures 4.1-17 to 4.1-33. Total lead and manganese are also plotted, although guideline exceedances were not observed for these parameters, as concentrations approached water quality guidelines. Sampling results for all other metals with existing relevant water quality guidelines are plotted in Appendix C. All total and dissolved metals data are compiled in Appendix B.

For most metals, dissolved concentrations constituted a substantial proportion of the total concentration, indicating that metals were frequently in dissolved rather than particulate form. This observation was consistent with the generally low concentrations of TSS in Project streams (Section 4.1.4) and high TDS concentrations (Section 4.1.3). Due to the high proportion of total metals in the dissolved form, metal concentrations followed a similar temporal pattern to that observed for TDS (Figure 4.1-4). The main exception was aluminum (Figure 4.1-17 and 4.1-18). While both total and dissolved aluminum concentrations were elevated across the Project area, a substantial proportion of aluminum was in the particulate form, and aluminum trends generally followed the same pattern as TSS (Figure 4.1-5).

Geographical influences were observed in the distribution of total and dissolved metal guideline exceedances; consequently, individual Project watersheds are discussed independently in the following sections.

4.1.8.1 Creek 661 Watershed

The greatest number of parameters with guideline exceedances for total and dissolved metals was observed in the Creek 661 watershed, specifically at WQ4, the furthest upstream site. Guideline exceedances at WQ4 included total and dissolved aluminum, total arsenic, total and dissolved cadmium, dissolved copper, total silver, and total and dissolved zinc. Of these metals, concentrations of dissolved aluminum, total and dissolved cadmium, total silver, and total and dissolved zinc exceeded both the applicable long-term and short-term guidelines. WQ4 was the only site where total arsenic exceedances were observed, and was also the site with the most instances of parameters exceeding guidelines with a frequency of 20% or more, comprising total and dissolved aluminum, total cadmium, and total and dissolved zinc; total and dissolved zinc concentrations exceeded the BC hardness-dependent long-term average guideline in 100% of samples collected at this site.

Natural elevation of metal concentrations at WQ4 can be attributed to the site's proximity to the Blackwater deposit; this water quality sampling site is adjacent to the footprint of the proposed open pit. Metal concentrations at this site tracked more closely with the patterns observed for TSS (Figure 4.1-5) than at other sites, as increased TSS at this site represented increased loads of mineralized sediment. The impacts of mineralization at this site are particularly apparent in the elevated arsenic concentrations identified in October and December 2012 (Figure 4.1-19).

Guideline exceedances for total and dissolved aluminum, total cadmium, and total zinc observed at station WQ4 persisted to the downstream monitoring sites at WQ3 and WQ5 in the Creek 661 watershed. The reduced frequencies and factors of exceedance (or absence of exceedance) for total and dissolved cadmium, total silver, and total zinc indicates that these parameters are likely associated with the mineral deposit and are attenuated along the Creek 661 flowpath towards Chedakuz Creek. Aluminum concentrations were consistent at sites in Creek 661, at frequencies of up to 76% (dissolved aluminum, WQ5), suggesting that aluminum concentrations are elevated throughout the Project area and not associated specifically with the mineral deposit. Total chromium and total copper guideline exceedances were also observed at downstream sites in Creek 661, but were not observed at WQ4, suggesting that these parameters may not be associated with the mineral deposit.

4.1.8.2 Davidson Creek Watershed

Guideline exceedances were observed in the Davidson Creek watershed for 11 parameters: pH, total and dissolved aluminum, total and dissolved cadmium, total chromium, total and dissolved copper, total and dissolved iron, total mercury, total silver, and total and dissolved zinc (Table 4.1-1). Guideline exceedances were most frequently observed at the upstream sites near the Blackwater deposit (WQ1 and WQ6). Total and dissolved aluminum, total silver, and total and dissolved zinc concentrations were also elevated at WQ10. However, concentrations of total and dissolved cadmium, total chromium, dissolved copper, total and dissolved iron, total silver, and dissolved zinc did not exceed guidelines at the mid-Davidson Creek sites (WQ28, WQ27, and WQ26).

Consistent with other watersheds, total and dissolved aluminum concentrations were elevated throughout Davidson Creek and followed a similar temporal pattern to TSS, unlike other metals which were dominated by the dissolved fraction.

Guideline exceedances were also observed at the furthest downstream site on Davidson Creek (WQ7). Water quality guideline exceedances for total chromium, total copper, total iron, and total and dissolved zinc were observed at this site at frequencies greater than at the upstream sites. Mean monthly concentrations of total zinc exceeded the hardness-dependent BC water quality guideline at this site in several months (Figure 4.1-32). However, sample-specific of exceedances of total and dissolved zinc were restricted to those collected during 2011 - 2014 and analyzed by AMEC. The maximum measured zinc concentration at WQ7 (0.133 mg/L, June 2012) is greater than the 99th percentile of values for this site and is therefore an outlier. Previous assessments of elevated metals in lower Davidson Creek (AMEC 2013, ERM 2018) that included this data point likely overestimated baseline zinc concentrations at this site. Total chromium and total iron exceedances were not observed elsewhere in Davidson Creek. The cause of elevated metal concentrations at WQ7 was not identified.

Elevated total mercury concentrations were detected on two occasions in Davidson Creek, once in May 2011 at WQ7 and once in May 2013 at WQ26 (Figure 4.1-30). Mercury concentrations Project-wide were measured above guidelines in a total of six samples, all collected during freshet in either 2011 or 2013, and were not accompanied by elevated dissolved mercury concentrations; this result suggests that sediment loading during freshet contributed to sporadic instances of elevated mercury. Overall, mercury was not a concern for the Project.

4.1.8.3 Turtle Creek Watershed

Guideline exceedances were observed in the Turtle Creek watershed for 12 total and dissolved metals: total and dissolved aluminum, total and dissolved cadmium, total chromium, total and dissolved copper, total and dissolved iron, total mercury, and total zinc (Table 4.1-1).

No guideline exceedances were detected at the upstream reference site sampled in 2012 (WQ19). Guideline exceedances for total and dissolved cadmium and total chromium were observed at site WQ11 in one sample, and total and dissolved copper and total mercury exceedances were observed twice at this site. At the downstream site (WQ14), total iron was detected above the BC short-term maximum guideline twice and a dissolved iron exceedance was observed once. One sample in June 2013 was greater than the BC alert level for total selenium. Total zinc concentrations exceeded water quality guidelines at the downstream site (WQ14) in two samples, and mean monthly zinc concentrations were above the hardness-dependent BC guideline at this site in December (Figure 4.1-32). This result was consistent with the observations in Davidson Creek, where zinc concentrations were also elevated at the downstream site.

Overall, concentrations of total and dissolved metals in Turtle Creek were low, with the exception of aluminum concentrations, which were elevated across the entire Project area.

4.1.8.4 *Chedakuz Creek*

Guideline exceedances were observed in Chedakuz Creek for 11 total and dissolved metals: total and dissolved aluminum, total and dissolved cadmium, total and dissolved copper, dissolved iron, total mercury, total silver, and total and dissolved zinc (Table 4.1-1). Total and dissolved cadmium and total mercury exceedances were observed once each at WQ13; the instance of elevated total mercury in late May 2013 was consistent with observations in other Project streams.

The most frequently observed guideline exceedance in Chedakuz Creek was for total aluminum, consistent with observations across the Project area (Figure 4.1-17). Infrequent guideline exceedances for total zinc were also observed, and can be attributed to elevated zinc concentrations in lower Davidson and Turtle creeks (Figure 4.1-32).

4.1.8.5 *Creek 705 Watershed*

The Creek 705 watershed drains towards the west of the Project and is not expected to receive Project impacts. Due to mineralization near the Blackwater deposit, guideline exceedances were observed in Creek 705 and tributaries for nine total and dissolved metals: total and dissolved aluminum, total cadmium, total chromium, total copper, dissolved iron, total mercury, and total and dissolved zinc (Table 4.1-1). At WQ15, total aluminum and total mercury concentrations were above water quality guidelines in one sample and dissolved aluminum in five samples exceeded relevant guidelines. At WQ16, total zinc concentrations were above the hardness-dependent BC long-term average water quality guideline in one sample, and dissolved aluminum, total cadmium and total iron concentrations were above water quality guidelines in two samples. Three total aluminum concentrations were greater than the relevant guideline.

At WQ12 and BI-12 in mid-Creek 705, total cadmium, total chromium, total copper, and total and dissolved zinc concentrations were measured above water quality guidelines in one sample each. A higher frequency of exceedance was measured for total and dissolved aluminum, consistent with regionally elevated aluminum concentrations (Figure 4.1-17 and 4.1-18). Total chromium exceedances were observed once at downstream site BI-09. This site also frequently exceeded total and dissolved aluminum guidelines.

4.1.8.6 *Reference Sites*

Water quality data collected from regional reference sites on Fawnie Creek and in the Blackwater River watershed support the general conclusions that total and dissolved aluminum concentrations are regionally elevated and consequently aluminum exceedances are not associated with the Blackwater deposit (Figure 4.1-17 and 4.1-18). Total and dissolved aluminum were the only parameters measured above water quality guidelines in Fawnie Creek, and at the Blackwater River tributary site (WQ17).

Other parameters were identified above water quality guidelines at site WQ18: total and dissolved cadmium, total chromium, total and dissolved copper, total iron, total and dissolved zinc; however, these exceedances were only associated with one sample collected in January 2013, which was potentially contaminated by sediment (Table 4.1-1). Further sampling at the Blackwater River sites is not anticipated; consequently, discussion of these sites is limited.

4.2 Lake Water Quality

Water quality analytical data are compiled in Appendix D for all Project lake sampling sites. Figures 4.2-1 to 4.2-30 present statistical summaries of all lake water quality sampling data by depth, as well as time series at the following three depths:

- Epilimnion: the surface of the lake;
- Metalimnion: the middle layer of the lake; and
- Hypolimnion: the bottom of the lake.

If the lake depth was less than 10 m, only two depths were sampled (see Section 3.2.2); hence no middle layer data are plotted for WQ22 (Snake Lake).

Statistical summaries and time series are provided for a series of water quality parameters, including general parameters, nutrients, organic carbon, and major anions. Additionally, statistical summaries and time series are presented for a subset of total and dissolved metals for which measured concentrations in Project lakes approached or exceeded applicable water quality guidelines (see Section 3.3). Sampling results for other metals with existing water quality guidelines which were not approached in Project samples are presented in Appendix E; if all lake sampling results were below the detection limit for a parameter, that parameter was not plotted.

Applicable BC or CCME guidelines are plotted on Figures 4.2-1 to 4.2-30 for reference purposes; however, as guideline values can be variable, median pH, hardness, chloride, and DOC values for Project lakes were used to set the guideline limits. A point plotted above the line representing the guideline does not necessarily indicate a sample-specific exceedance. Details of exceedances compared to sample-specific guidelines are provided in Section 4.2.1.

Figures include data collected up to August 2020; no lake sampling was conducted during 2015 to 2017. Quarterly sampling at the epilimnion layer of Lake 1682 (WQ23) was reinitiated in February 2018.

4.2.1 Comparison to Water Quality Guidelines

Lake water quality sampling results were compared to water quality guidelines on a sample by sample basis, as described in Section 3.3.1. Consistent with the analysis for stream water quality sampling results, guideline exceedances were characterized by the frequency and factor of exceedance (see Section 4.1.1).

Mean factors and frequency of collected samples with concentrations naturally exceeding guidelines are presented in Table 4.2-1 for Project lake sampling sites. Thirteen total and dissolved metals with guidelines are presented in Table 4.2-1. Parameters for which no exceedances were observed in Project streams were excluded from the table.

Parameters exceeding water quality guidelines varied among the six sampled lakes. The most frequently observed guideline exceedances were for total zinc and dissolved manganese (observed in four out of six sampled lakes; Table 4.2-1). Total zinc was the only parameter above guidelines in Snake Lake (WQ22).

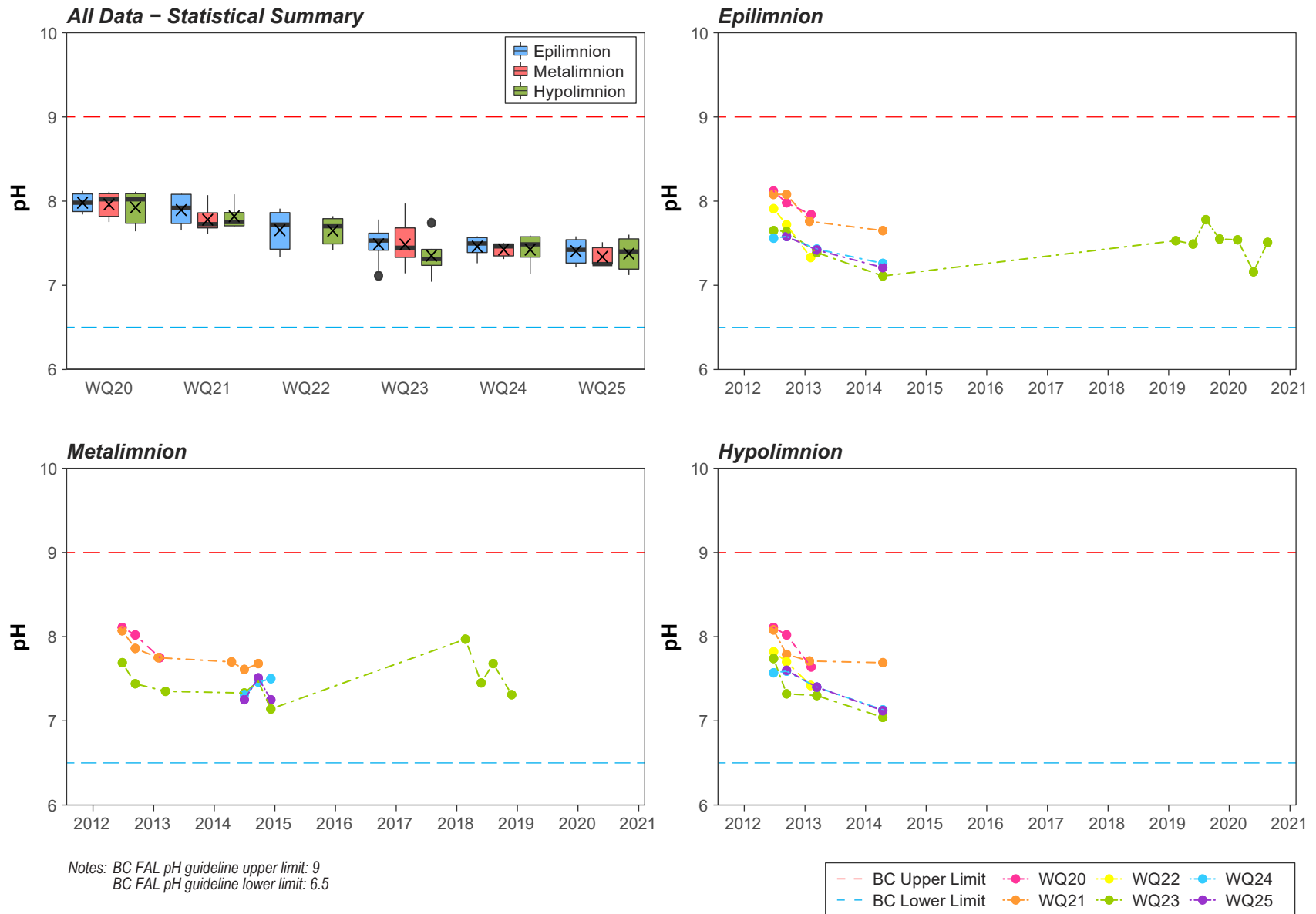


Figure 4.2-1: pH Values, Blackwater Gold Project Lakes, 2012 to 2020

Table 4.2-1: Summary of Lake Water Quality Frequency and Magnitude of Guideline Exceedances, Blackwater Gold Project, 2011 to 2020

Watershed (Site)	Parameter	Total Aluminum	Total Arsenic	Total Cadmium	Total Copper	Dissolved Copper	Total Iron	Dissolved Iron	Total Lead	Total Manganese		Dissolved Manganese	Total Mercury	Total Zinc	Dissolved Zinc
		CCME Long-term	BC	CCME Long-term	CCME Long-term	BC Long-term Chronic	BC Short-term Acute	BC Short-term Acute	BC Long-term	BC Long-term	BC Short-term	CCME Long-term	BC Long-term Chronic	BC Long-term Chronic	CCME Long-term
Kuyakuz Lake (WQ20)	Factor	2.35	-	-	1.40	-	-	-	2.08	-	-	1.28	-	1.49	-
	Frequency (%)	11.1	0	0	11.1	0	0	0	11.1	0	0	11.1	0	11.1	0
Tatelkuz Lake (WQ21)	Factor	-	-	1.01	-	-	-	-	-	-	-	-	-	2.15	-
	Frequency (%)	0	0	7.14	0	0	0	0	0	0	0	0	0	14.3	0
Snake Lake (WQ22)	Factor	-	-	-	-	-	-	-	-	-	-	-	-	1.35	-
	Frequency (%)	0	0	0	0	0	0	0	0	0	0	0	0	16.7	0
Lake 1682 (WQ23)	Factor	-	2.54	-	1.65	2.20	4.38	12.3	-	-	-	1.47	-	1.82	1.44
	Frequency (%)	0	4.00	0	4.00	4.00	4.00	4.00	0	0	0	4.00	0	8.00	8.00
Lake 1538 (WQ24)	Factor	-	1.24	2.15	-	-	3.55	9.23	-	1.32	1.12	2.89	1.20	-	-
	Frequency (%)	0	9.09	9.09	0	0	9.09	9.09	0	9.09	9.09	9.09	9.09	0	0
Lake 1428 (WQ25)	Factor	-	-	1.64	-	-	7.97	20.3	-	2.07	1.65	4.05	-	-	-
	Frequency (%)	0	0	22.2	0	0	11.1	11.1	0	11.1	11.1	11.1	0	0	0

Notes:

Refer to Appendix A for specific guidelines.

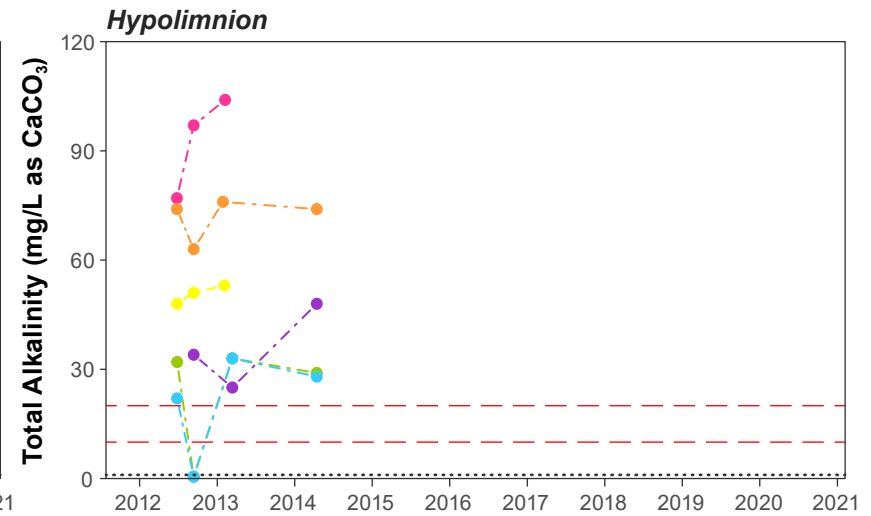
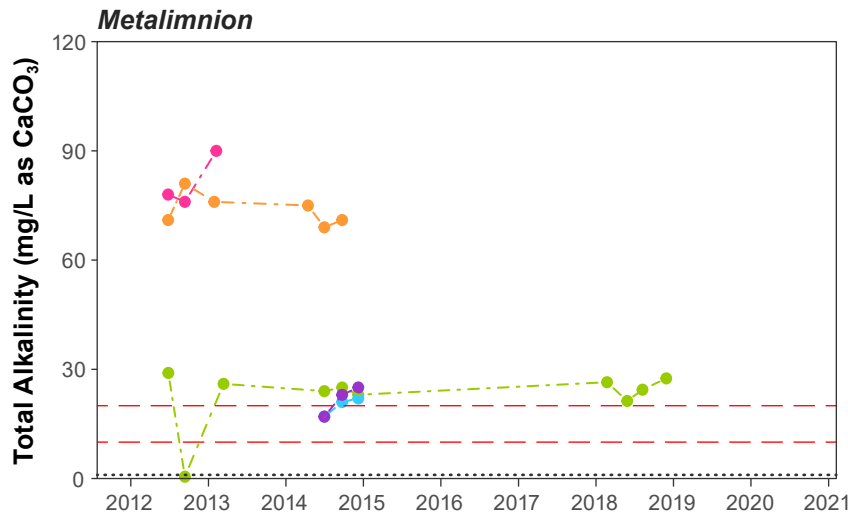
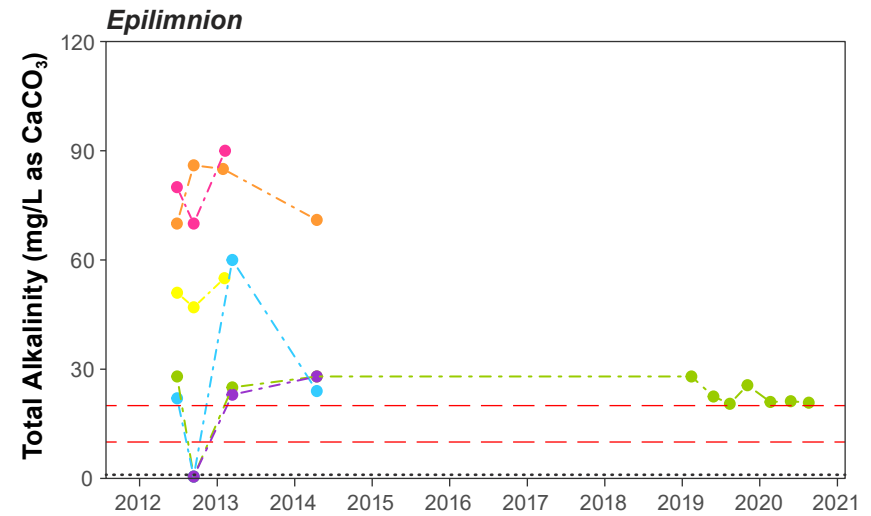
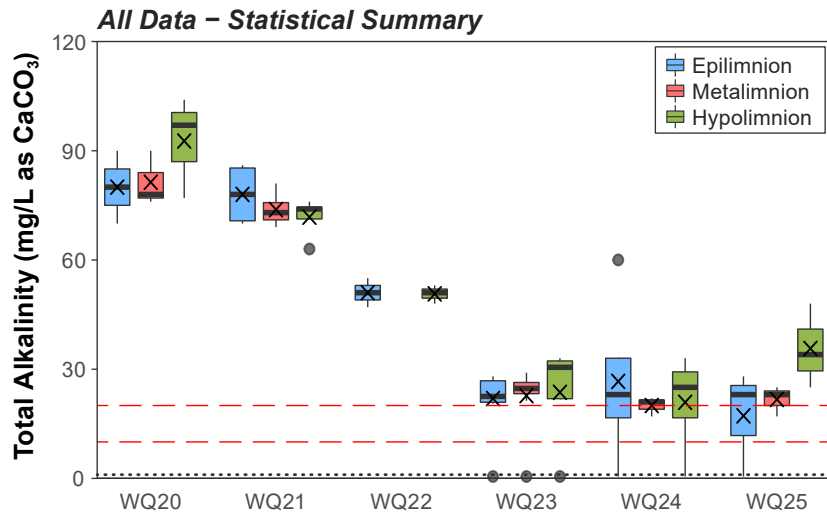
Values below the detection limit were replaced with half the detection limit for calculations.

Only parameters above guidelines are included in table.

Samples with detection limits greater than guideline values were excluded from factor and frequency calculations.

Factor represents the average magnitude of samples above guideline concentrations.

Frequency (%) represents percentage of samples collected at each site that were higher than available guidelines.



Notes: Concentrations below the detection limit were plotted as half the detection limit.
 Red dashed lines indicate BC FAL working guideline ranges for sensitivity to acid inputs:
 < 10 mg/L as CaCO₃, highly sensitive to acid inputs;
 10 - 20 mg/L as CaCO₃, moderately sensitive to acid inputs;
 > 20 mg/L as CaCO₃, low sensitivity to acid inputs;

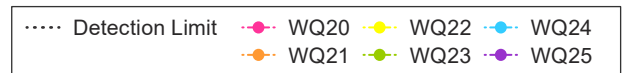


Figure 4.2-2: Total Alkalinity, Blackwater Gold Project Lakes, 2012 to 2020

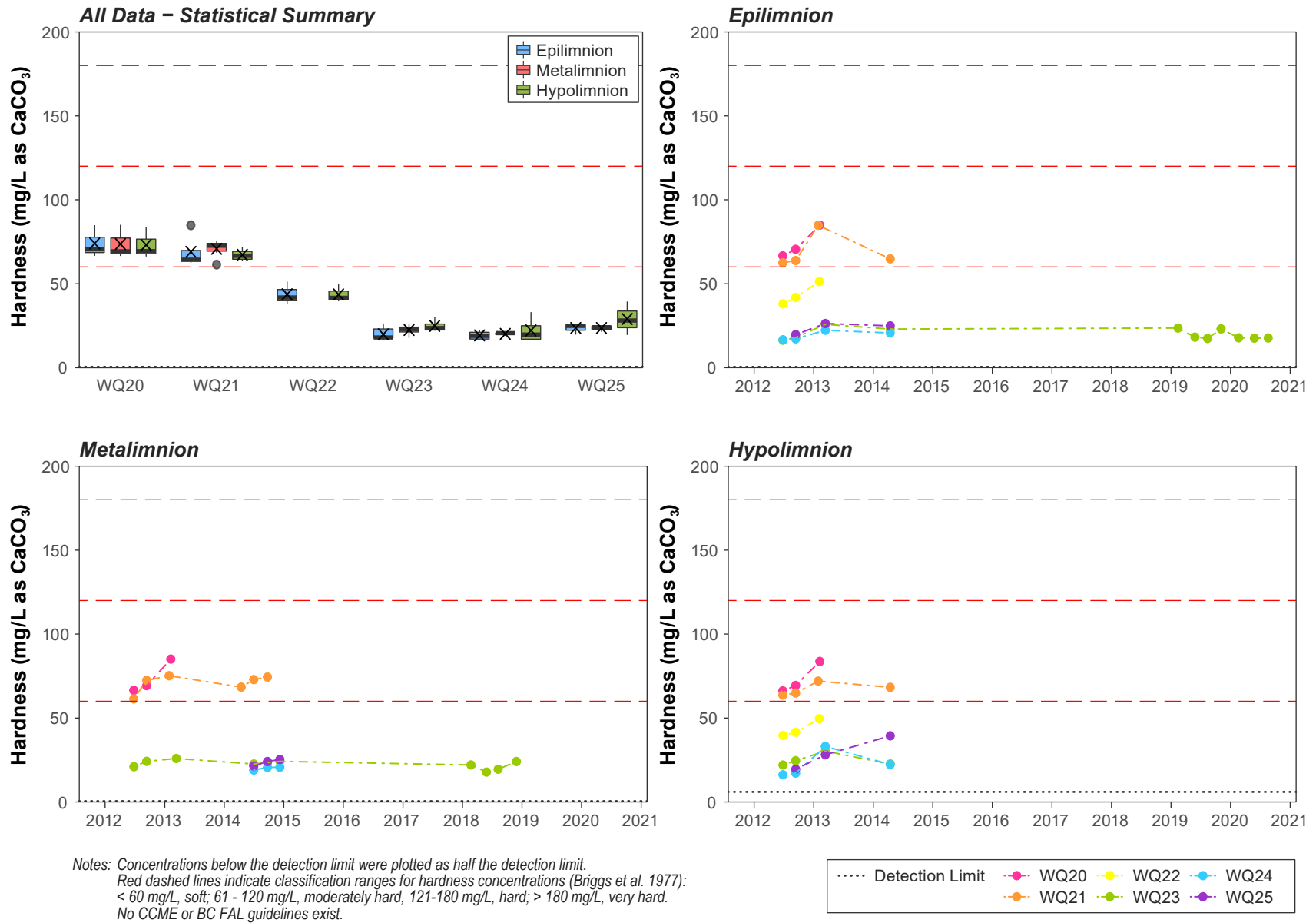
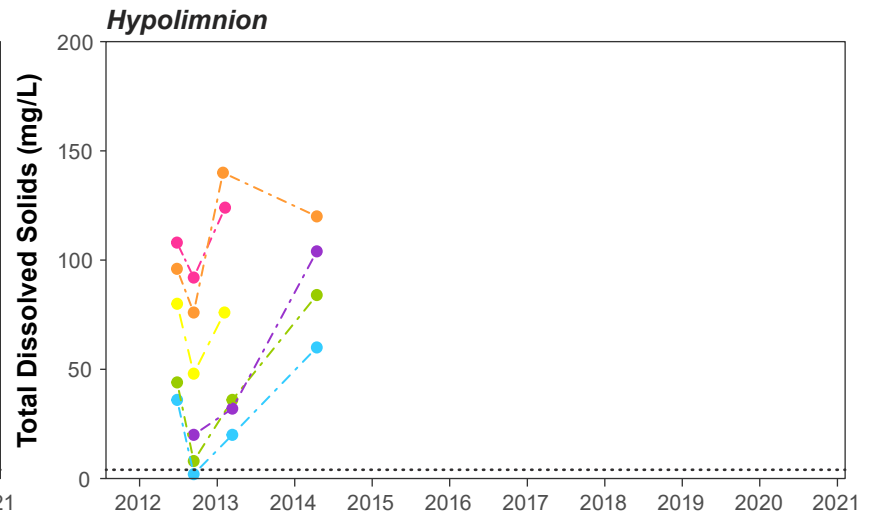
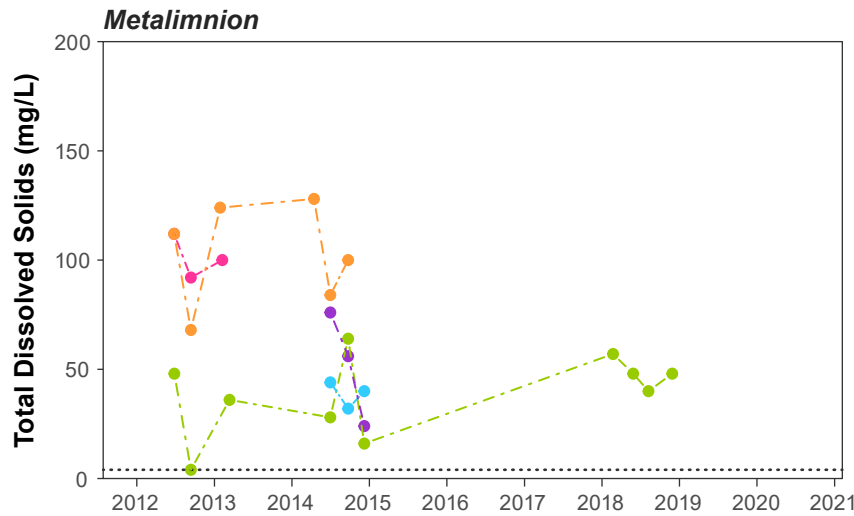
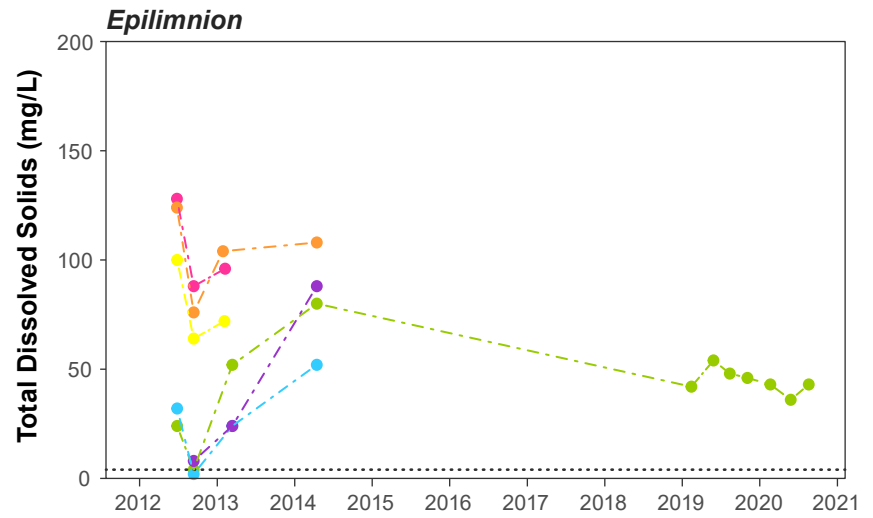
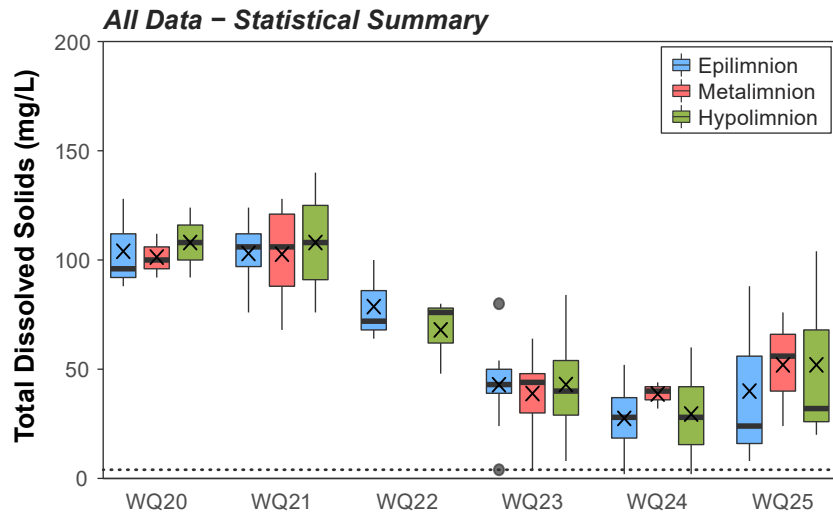


Figure 4.2-3: Hardness, Blackwater Gold Project Lakes, 2012 to 2020



Notes: Concentrations below the detection limit were plotted as half the detection limit.
Water quality guidelines for dissolved solids are dependent on background levels.

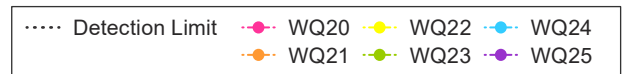


Figure 4.2-4: Total Dissolved Solids, Blackwater Gold Project Lakes, 2012 to 2020

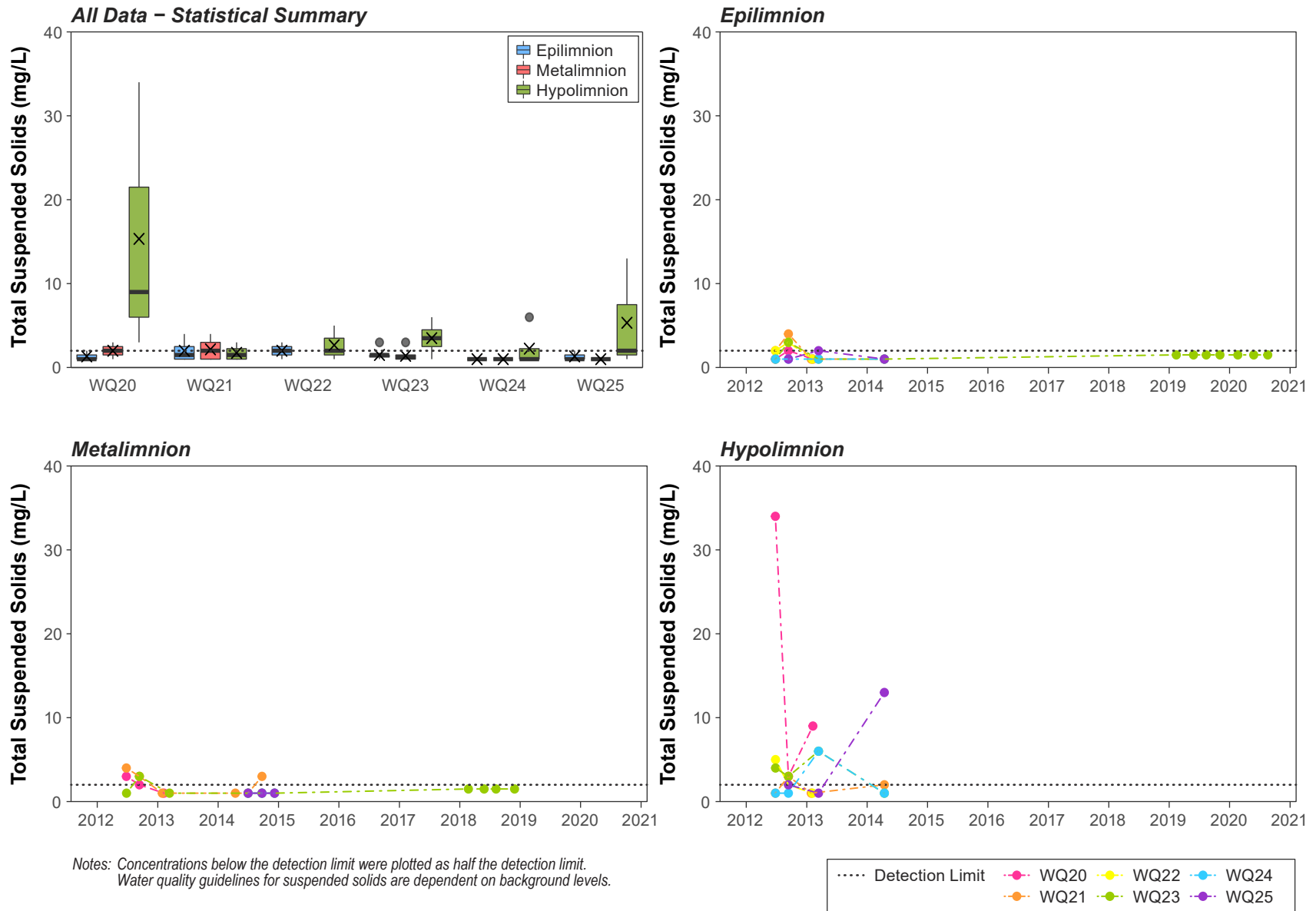


Figure 4.2-5: Total Suspended Solids, Blackwater Gold Project Lakes, 2012 to 2020

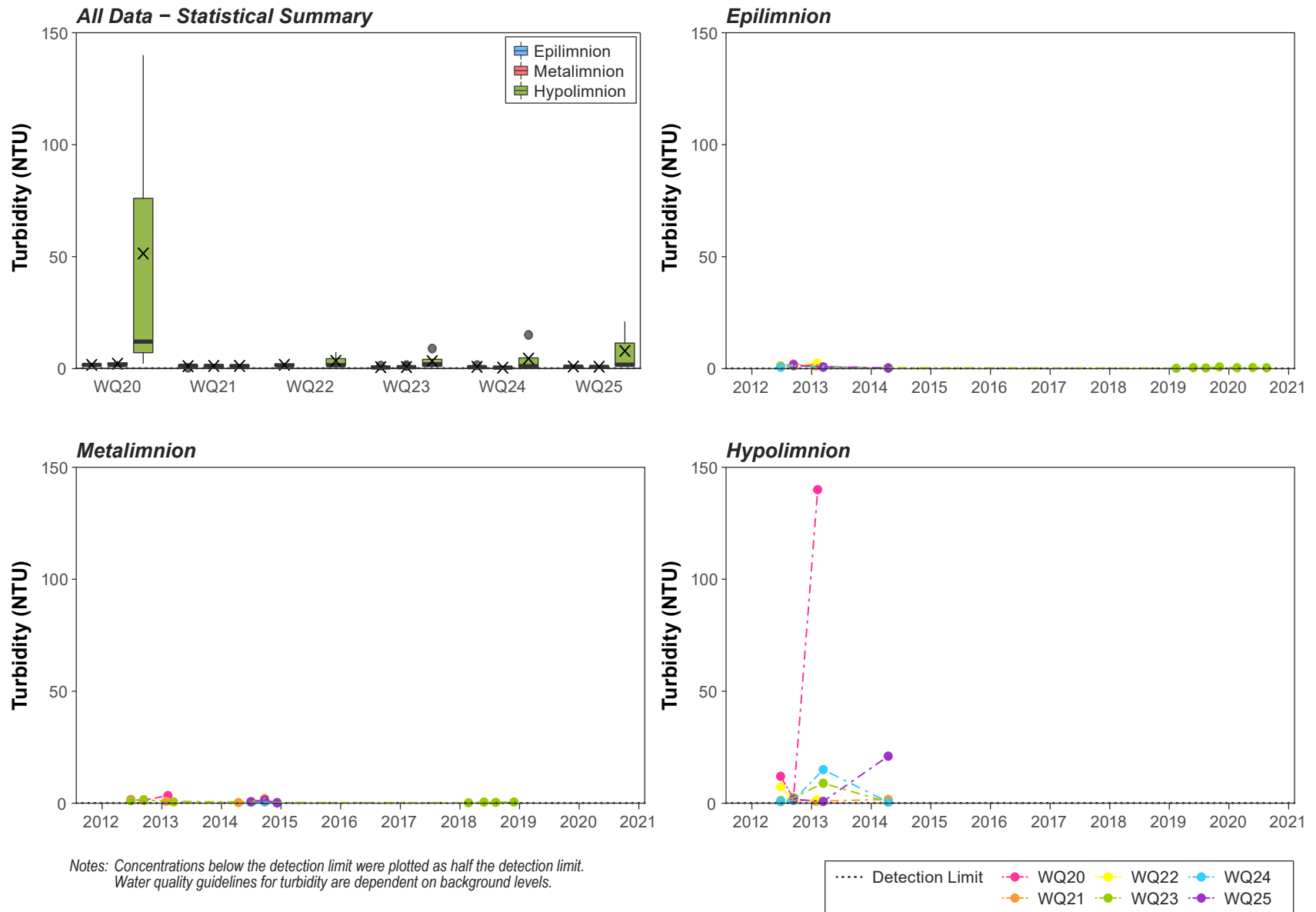


Figure 4.2-6: Turbidity, Blackwater Gold Project Lakes, 2012 to 2020

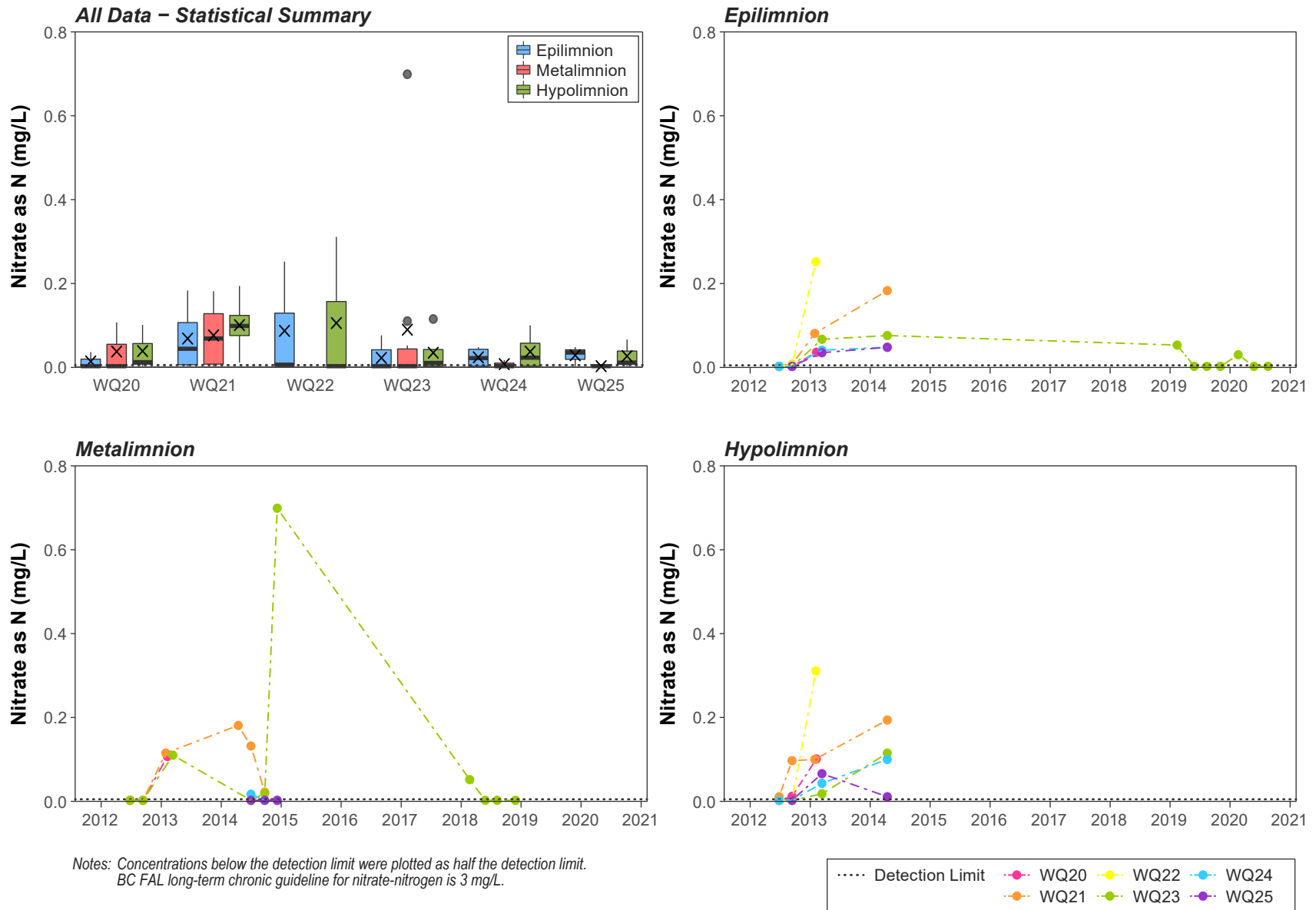


Figure 4.2-7: Nitrate Concentrations, Blackwater Gold Project Lakes, 2012 to 2020

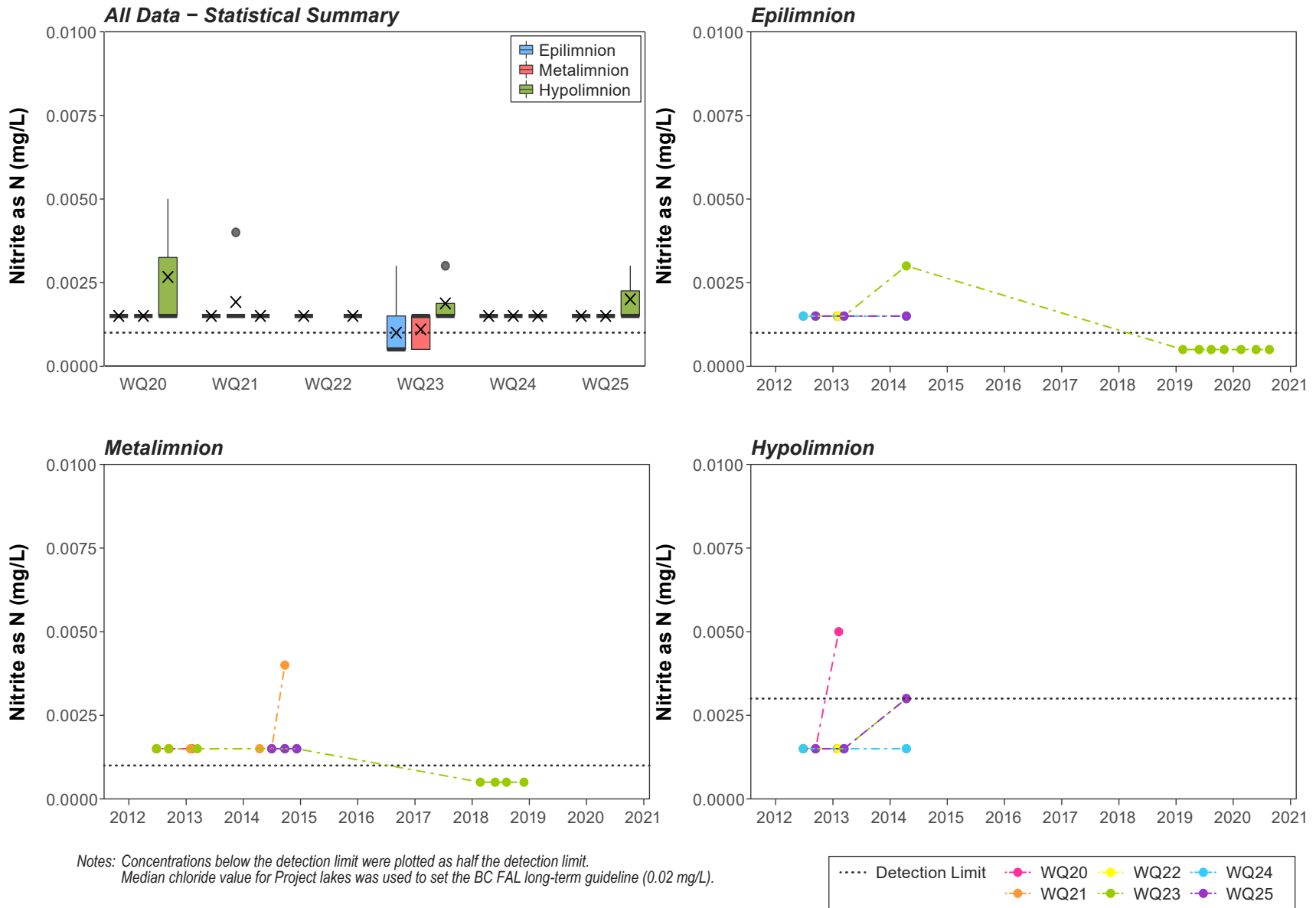


Figure 4.2-8: Nitrite Concentrations, Blackwater Gold Project Lakes, 2012 to 2020

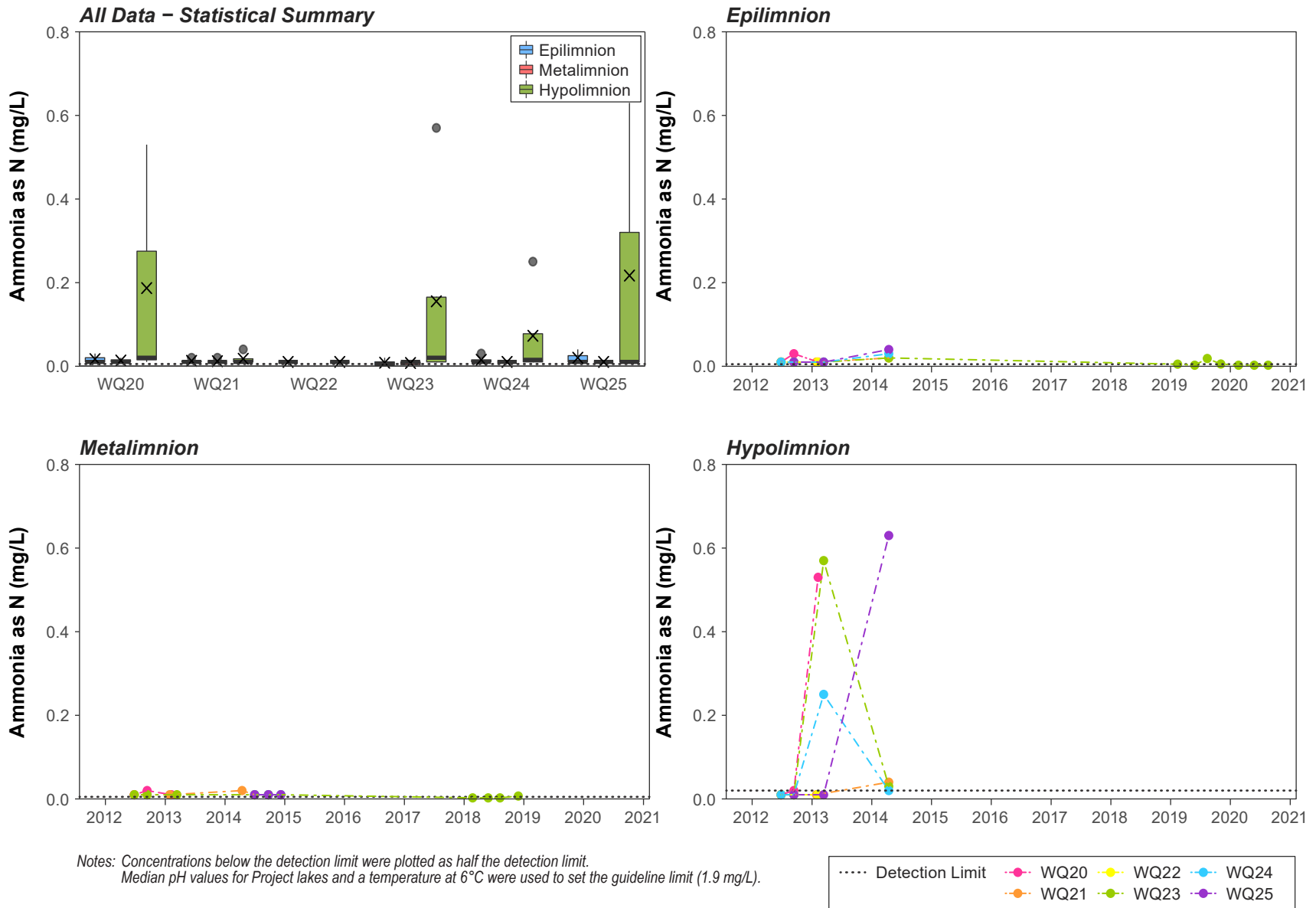


Figure 4.2-9: Ammonia Concentrations, Blackwater Gold Project Lakes, 2012 to 2020

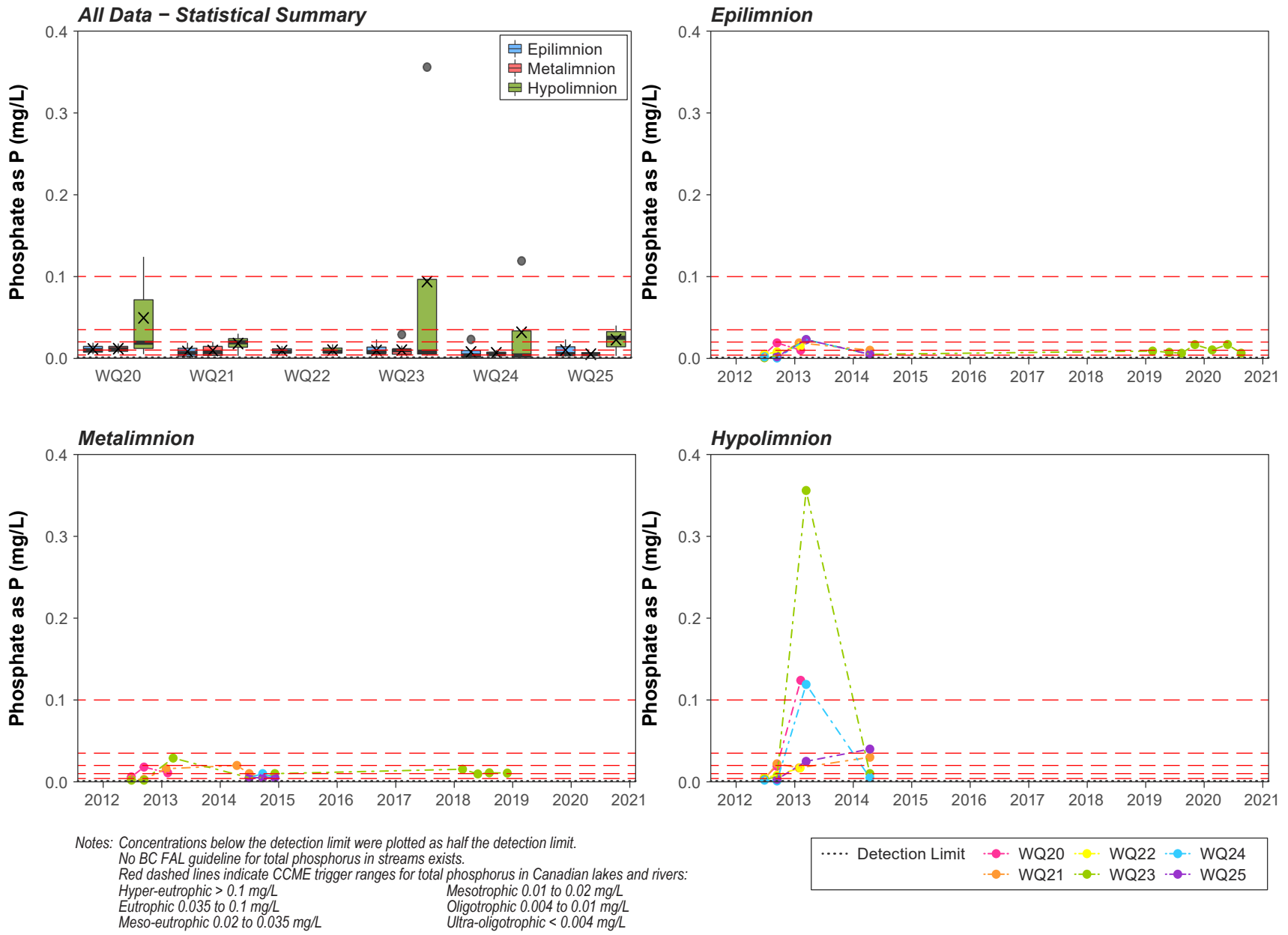
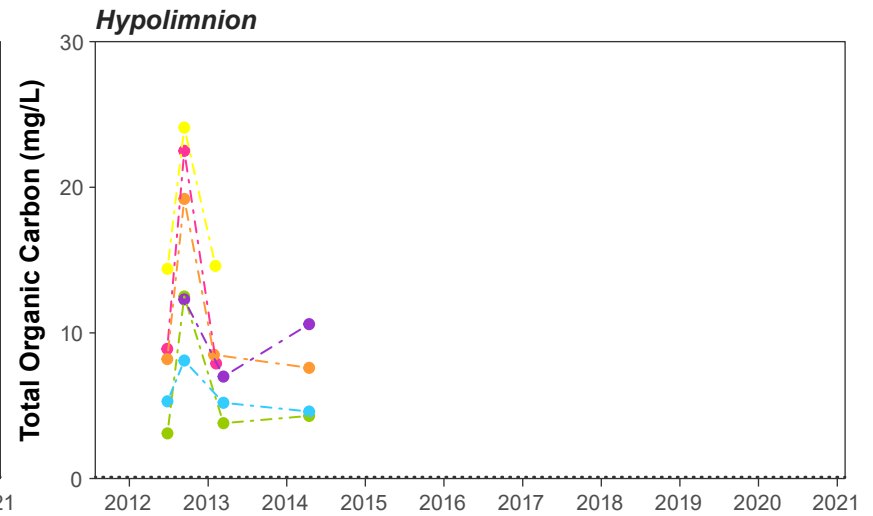
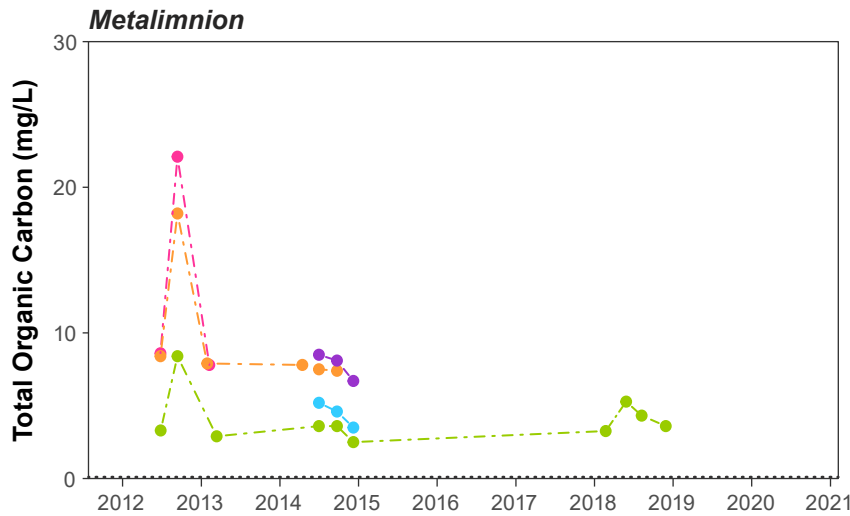
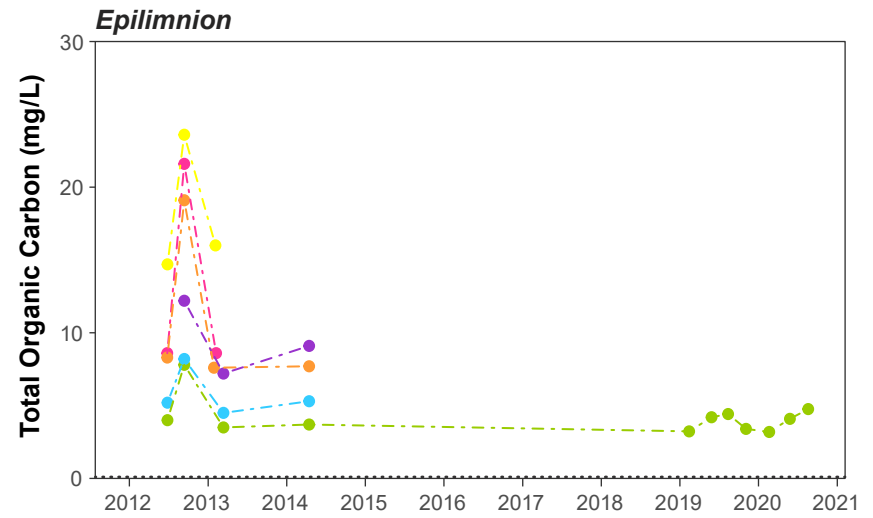
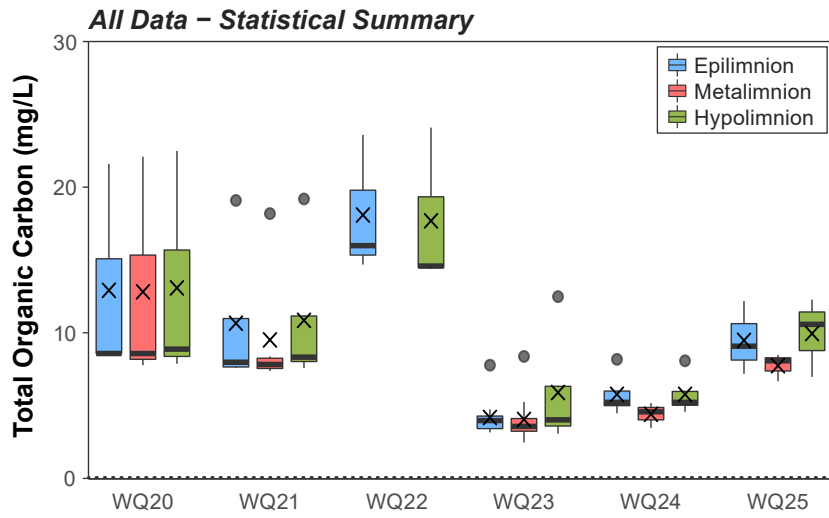


Figure 4.2-10: Total Phosphorus Concentrations, Blackwater Gold Project Lakes, 2012 to 2020



Notes: Concentrations below the detection limit were plotted as half the detection limit.
No BC or CCME FAL guideline exists for total organic carbon.

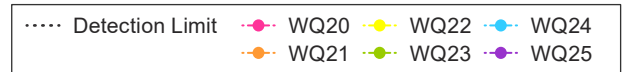


Figure 4.2-11: Total Organic Carbon Concentrations, Blackwater Gold Project Lakes, 2012 to 2020

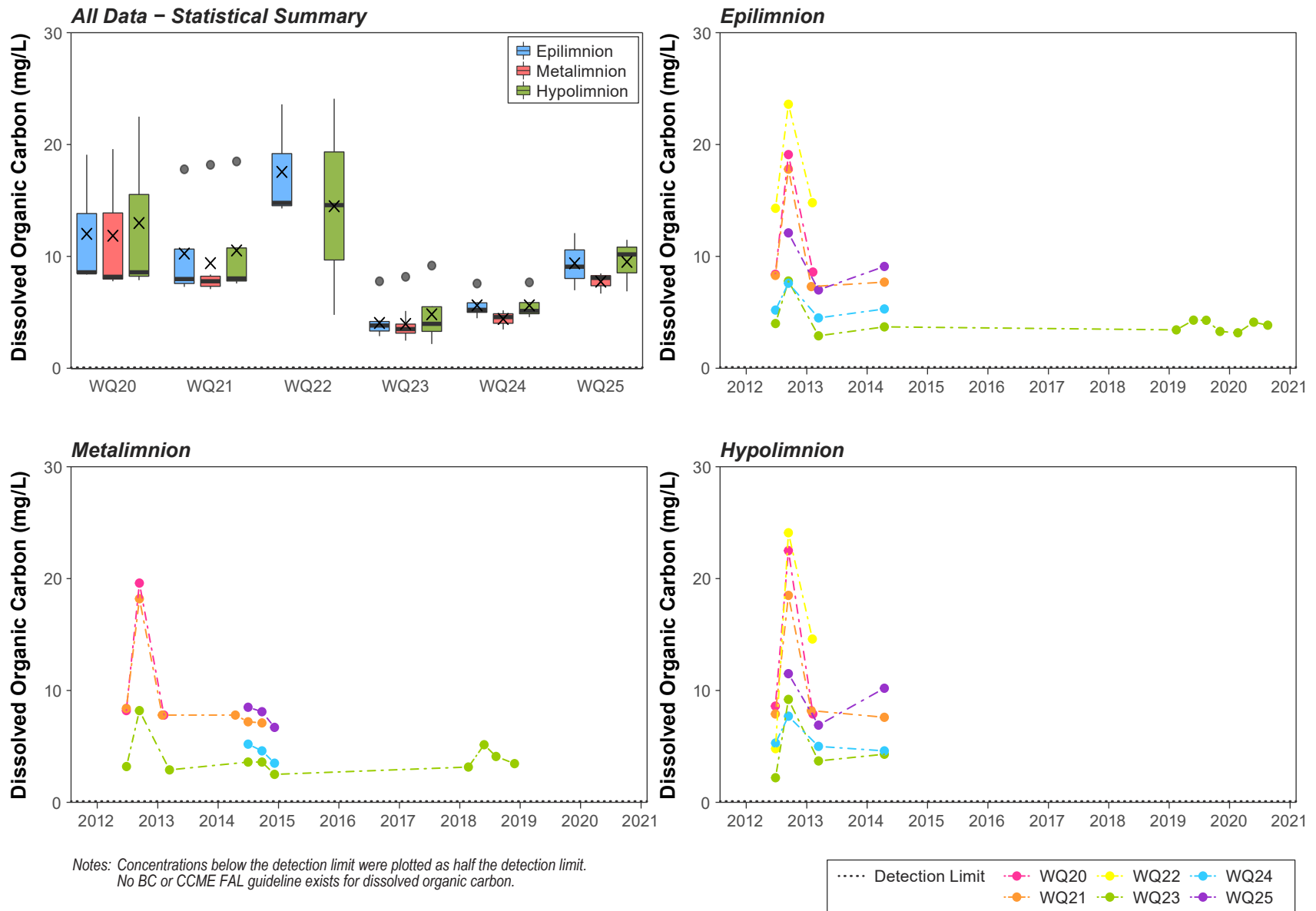
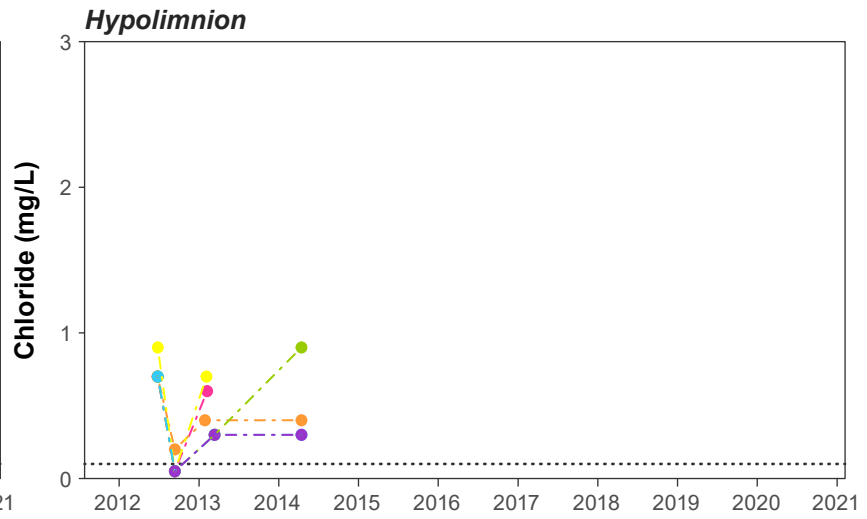
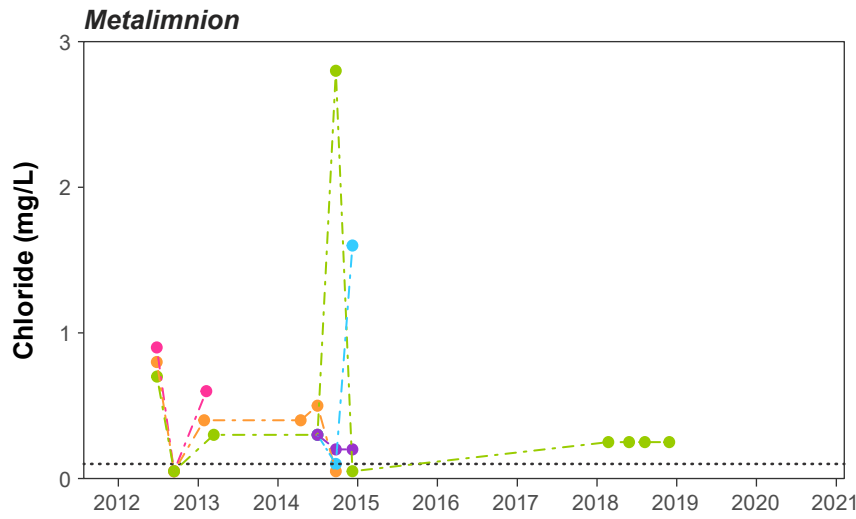
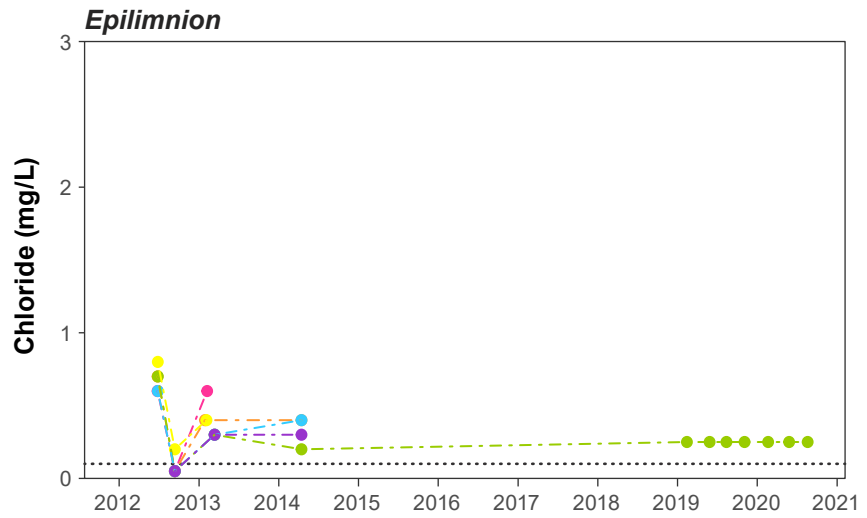
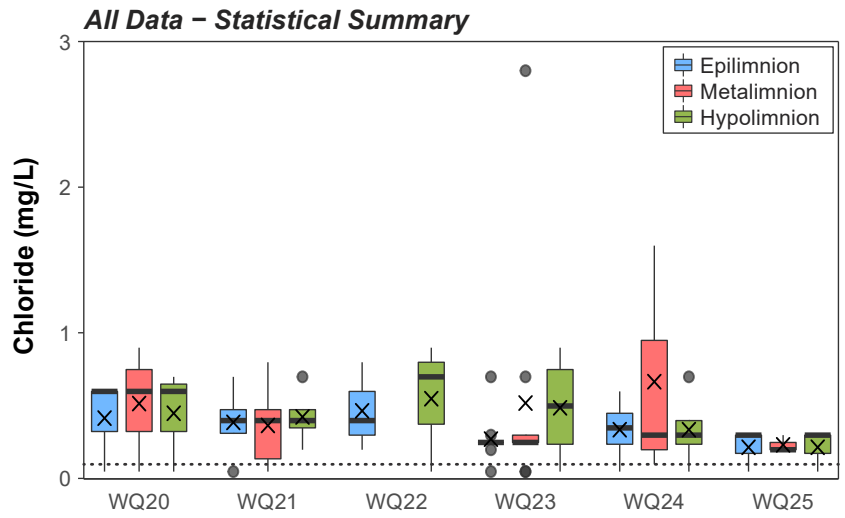


Figure 4.2-12: Dissolved Organic Carbon Concentrations, Blackwater Gold Project Lakes, 2012 to 2020



Notes: Concentrations below the detection limit were plotted as half the detection limit.
 BC long-term chronic guideline for chloride is 150 mg/L.

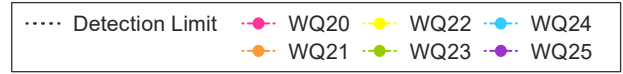


Figure 4.2-13: Chloride Concentrations, Blackwater Gold Project Lakes, 2012 to 2020

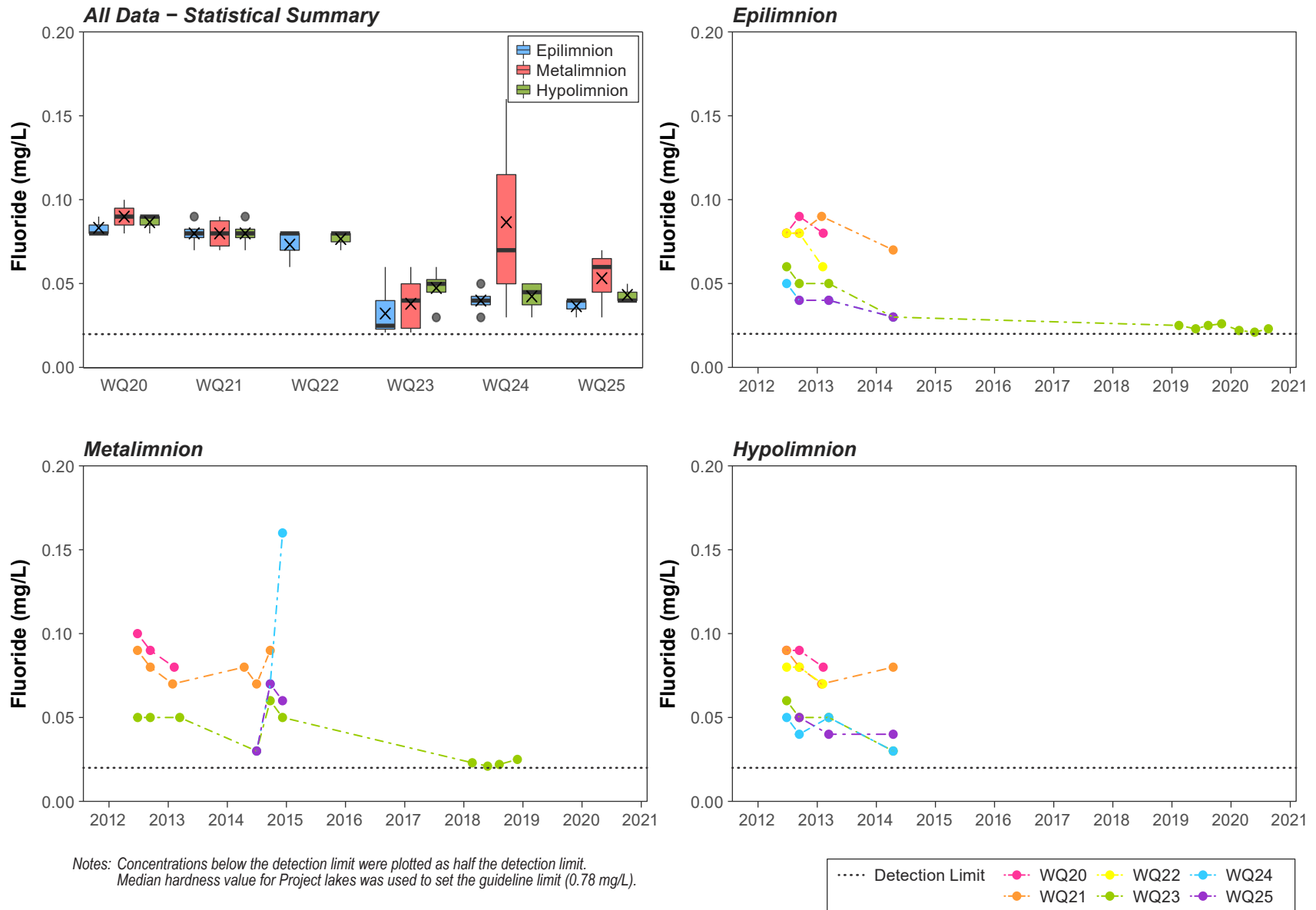
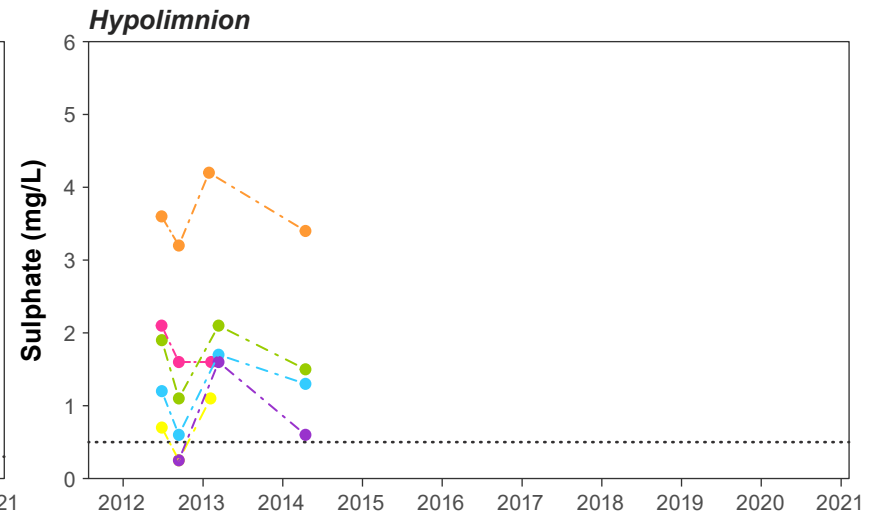
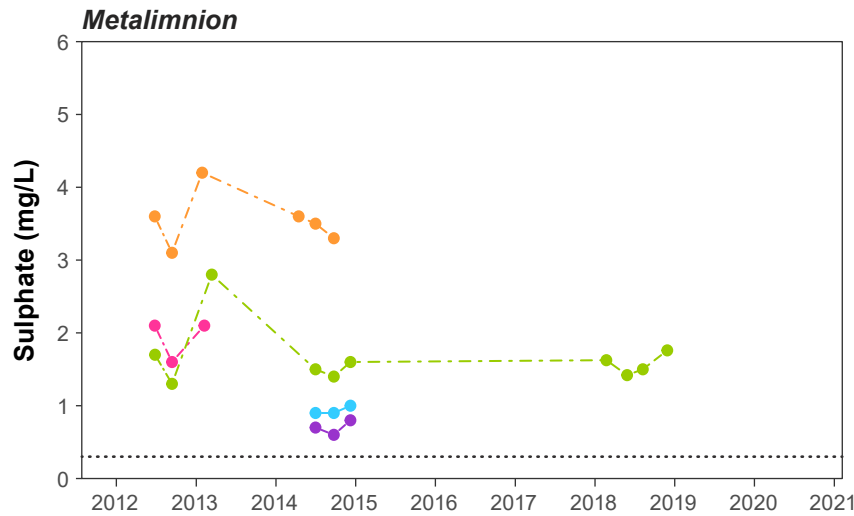
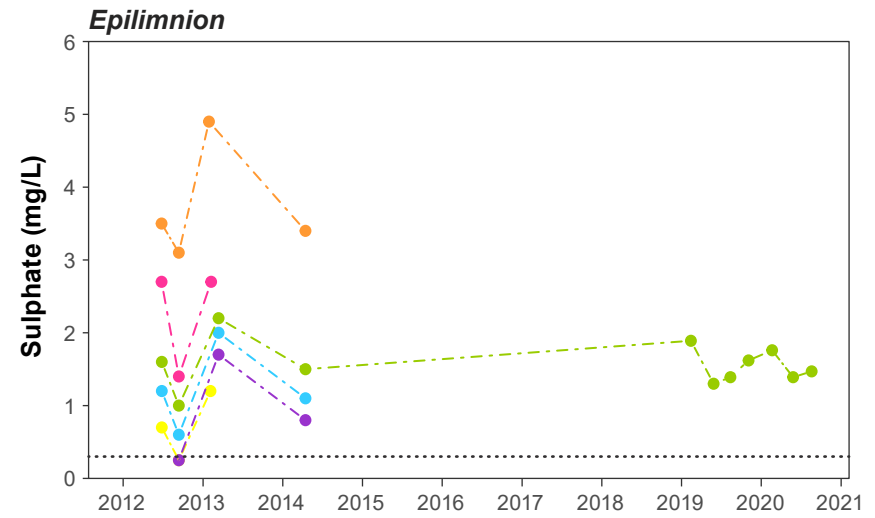
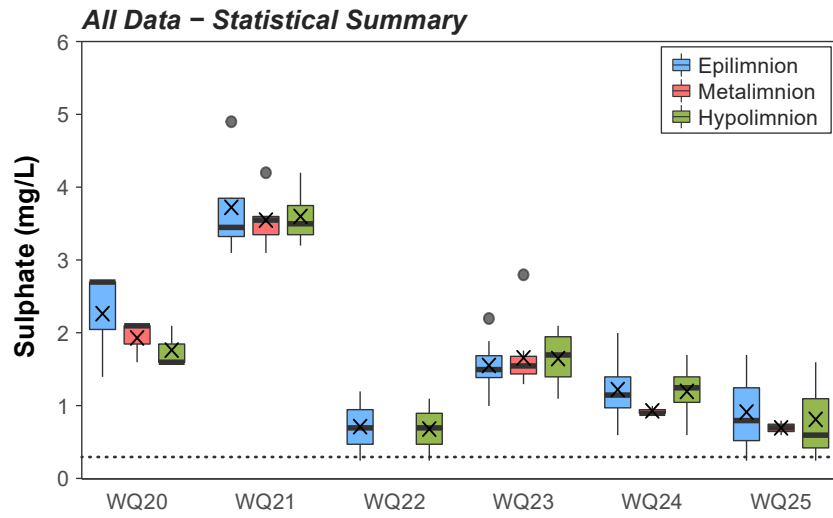


Figure 4.2-14: Fluoride Concentrations, Blackwater Gold Project Lakes, 2012 to 2020



Notes: Concentrations below the detection limit were plotted as half the detection limit.
 Median hardness value for Project lakes was used to set the guideline limit (128 mg/L).

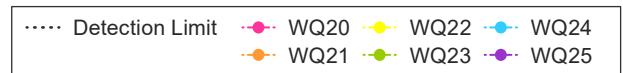


Figure 4.2-15: Sulphate Concentrations, Blackwater Gold Project Lakes, 2012 to 2020

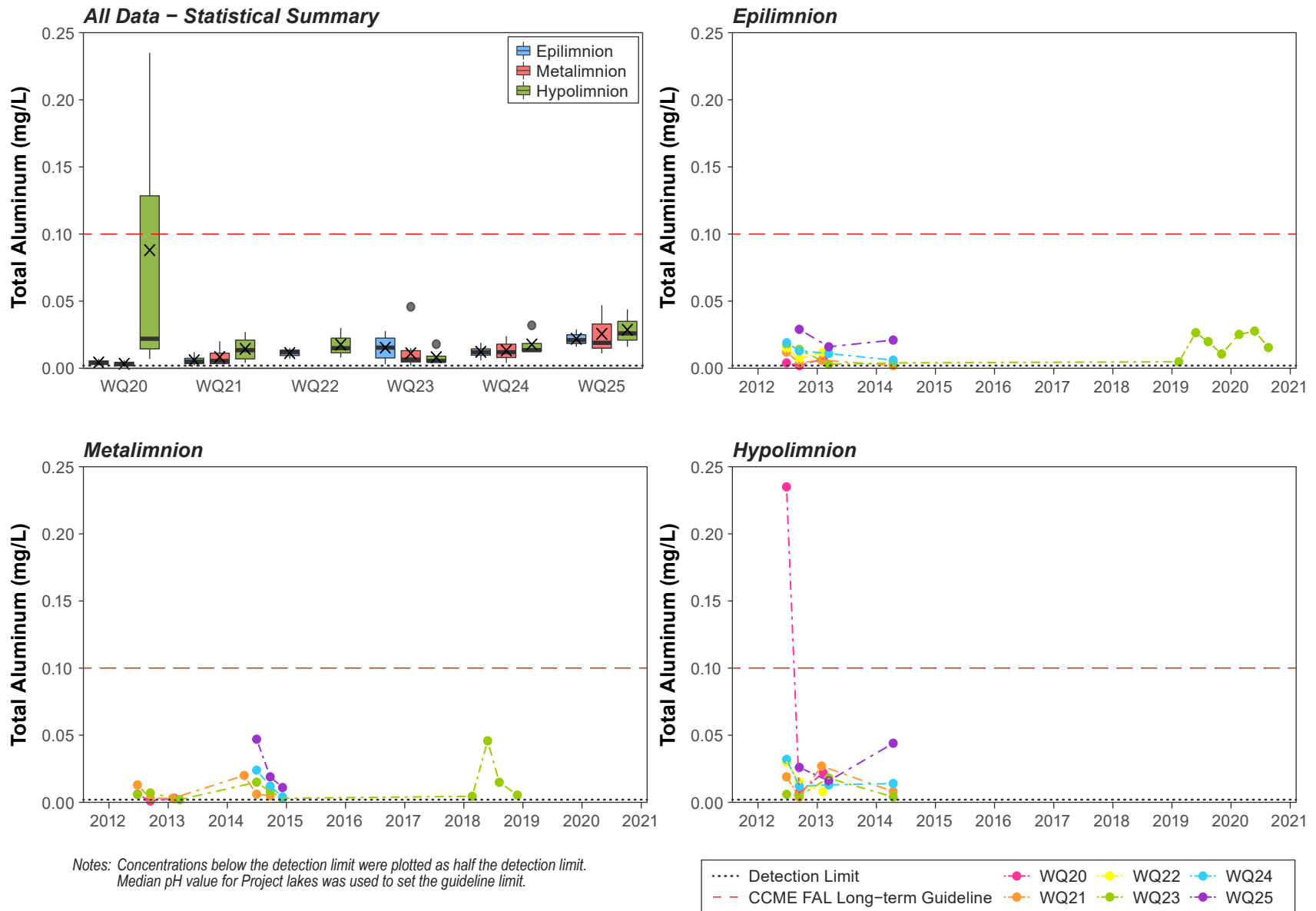


Figure 4.2-16: Total Aluminum Concentrations, Blackwater Gold Project Lakes, 2012 to 2020

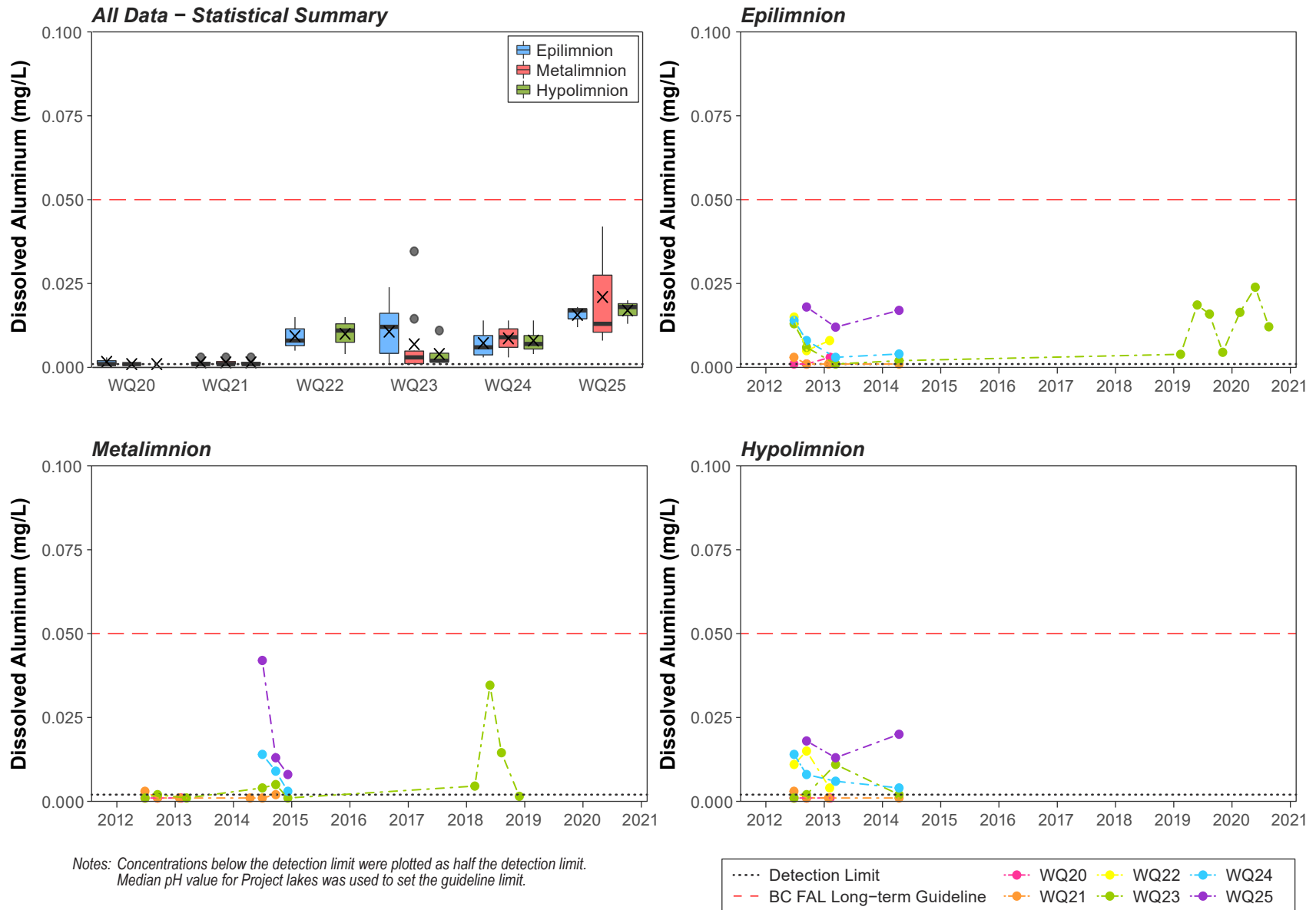


Figure 4.2-17: Dissolved Aluminum Concentrations, Blackwater Gold Project Lakes, 2012 to 2020

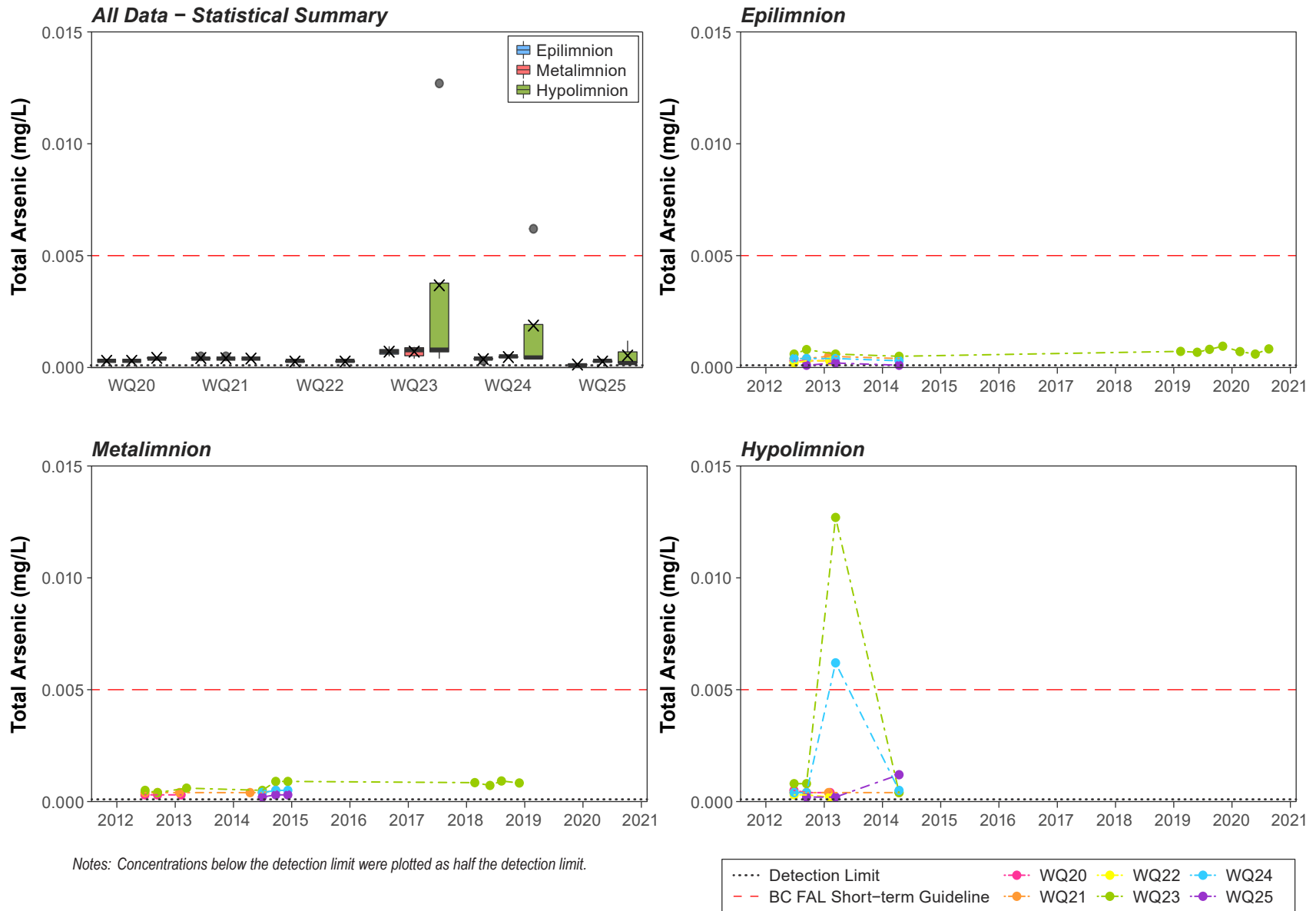


Figure 4.2-18: Total Arsenic Concentrations, Blackwater Gold Project Lakes, 2012 to 2020

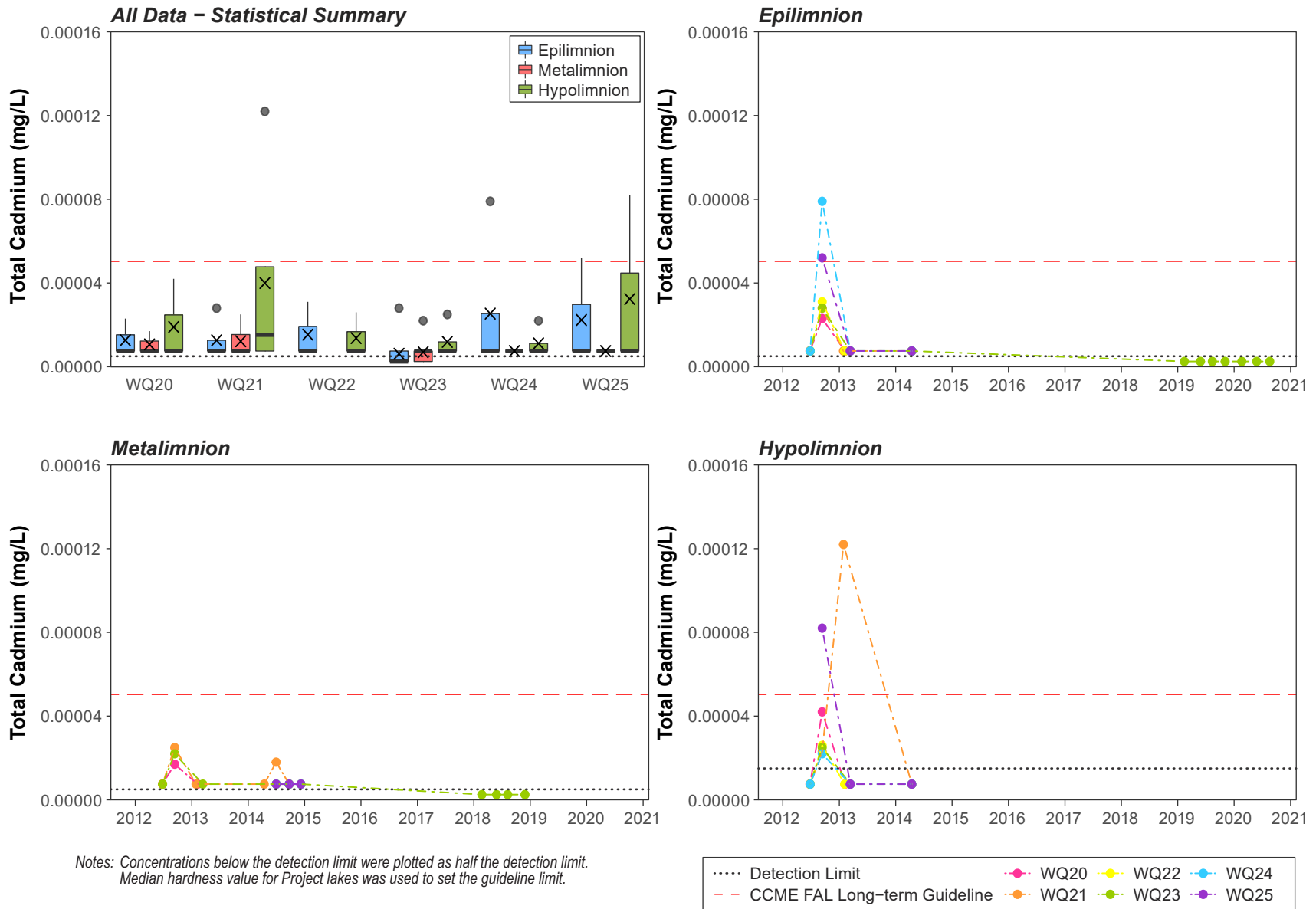


Figure 4.2-19: Total Cadmium Concentrations, Blackwater Gold Project Lakes, 2012 to 2020

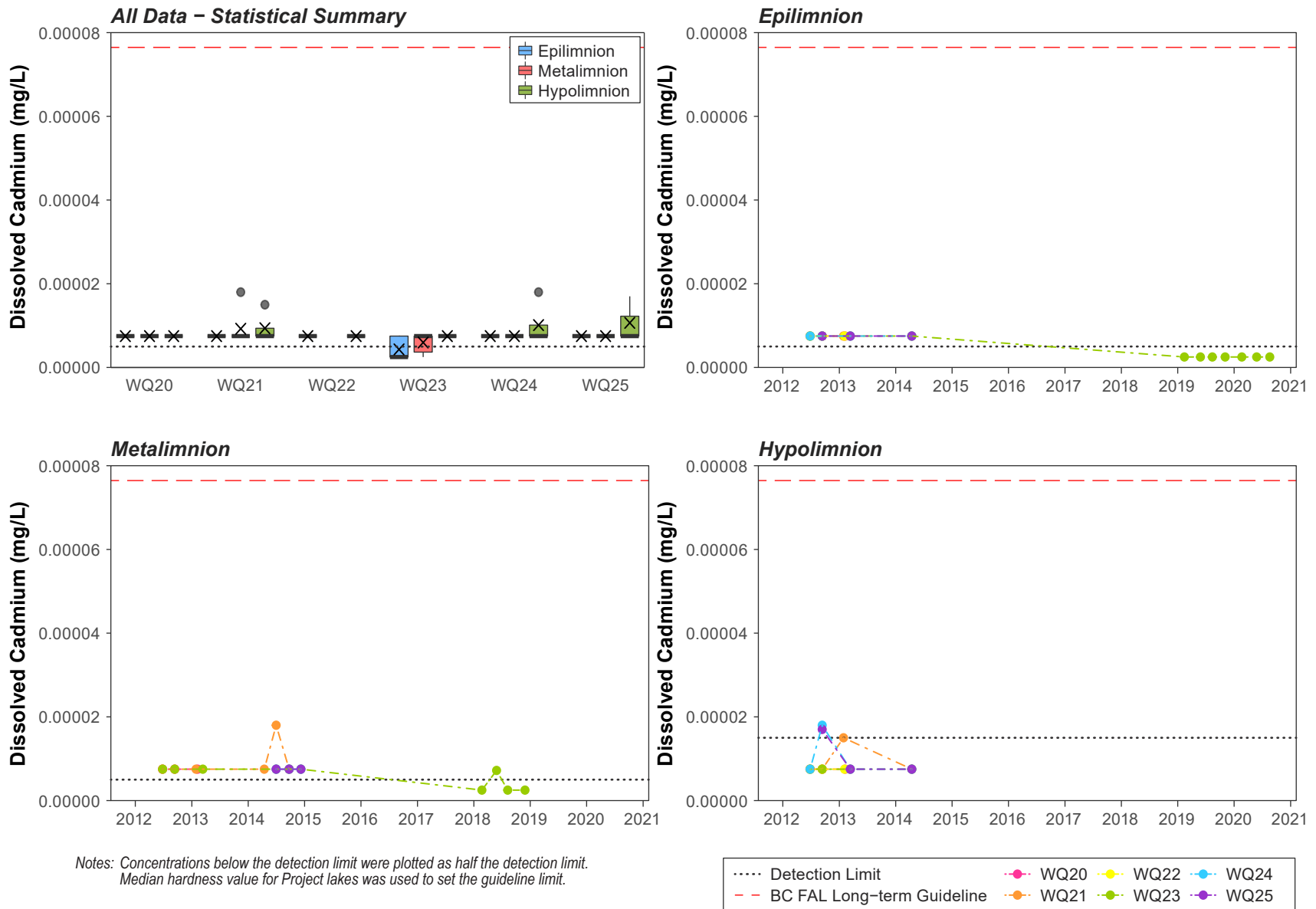


Figure 4.2-20: Dissolved Cadmium Concentrations, Blackwater Gold Project Lakes, 2012 to 2020

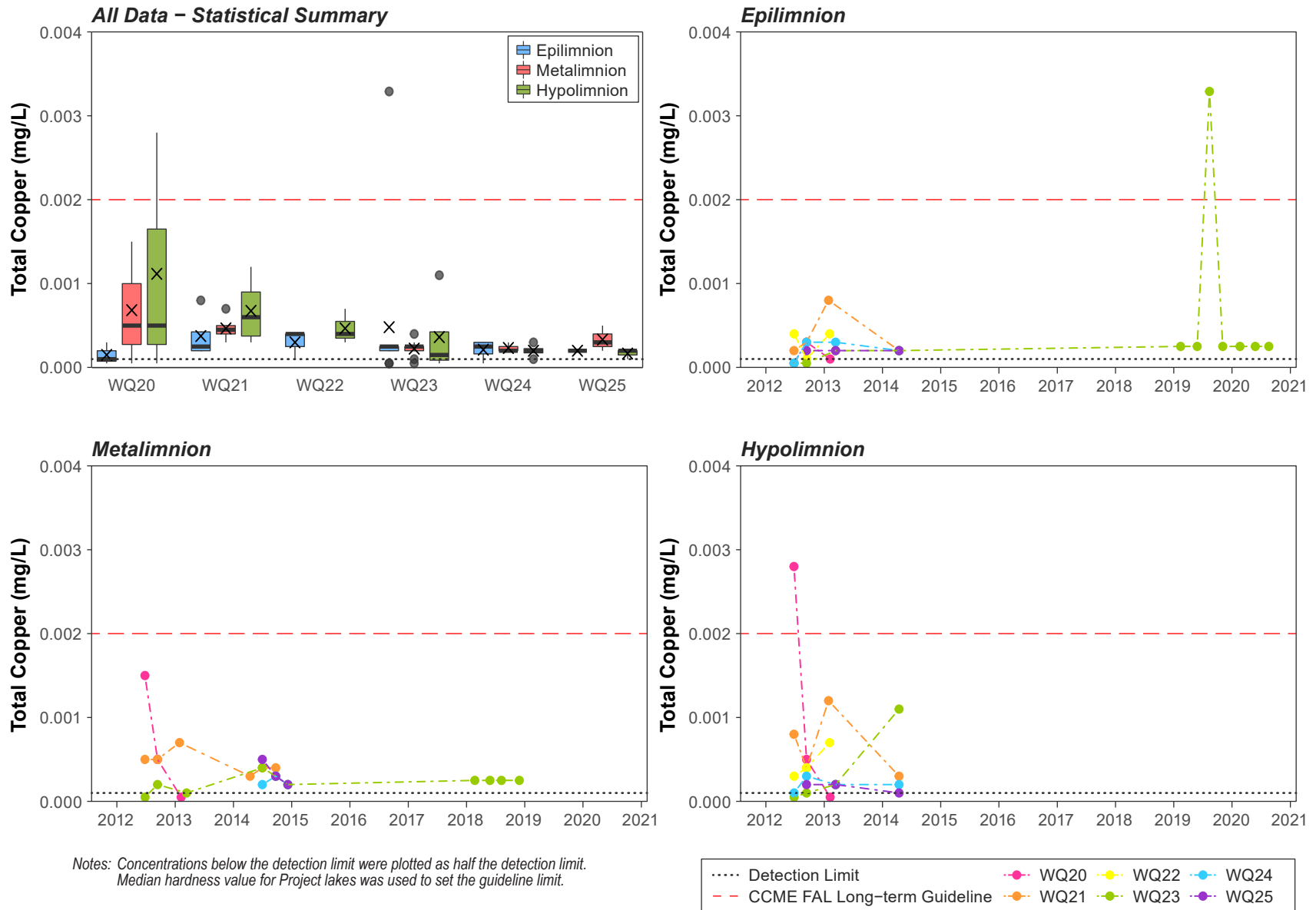


Figure 4.2-21: Total Copper Concentrations, Blackwater Gold Project Lakes, 2012 to 2020

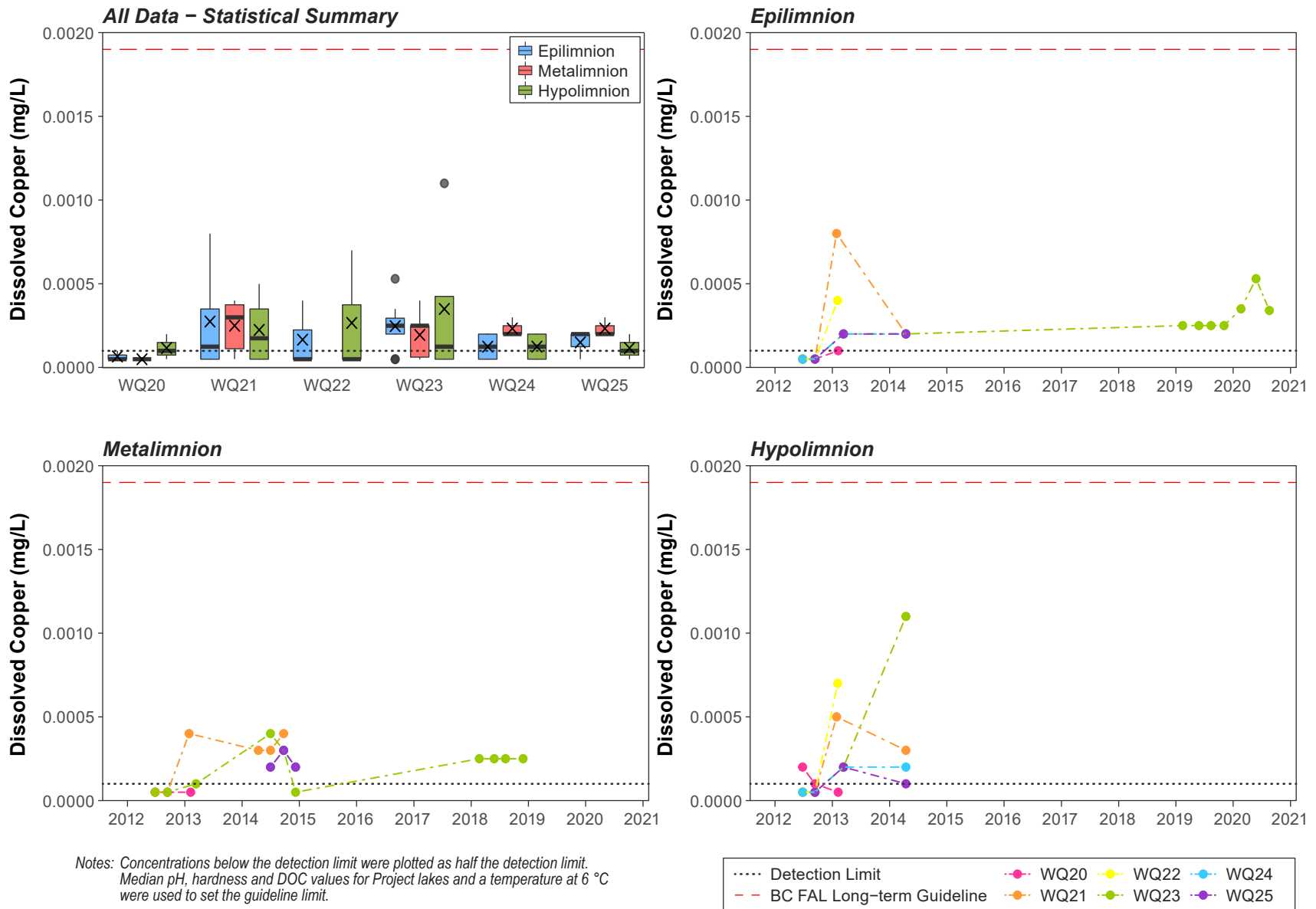


Figure 4.2-22: Dissolved Copper Concentrations, Blackwater Gold Project Lakes, 2012 to 2020

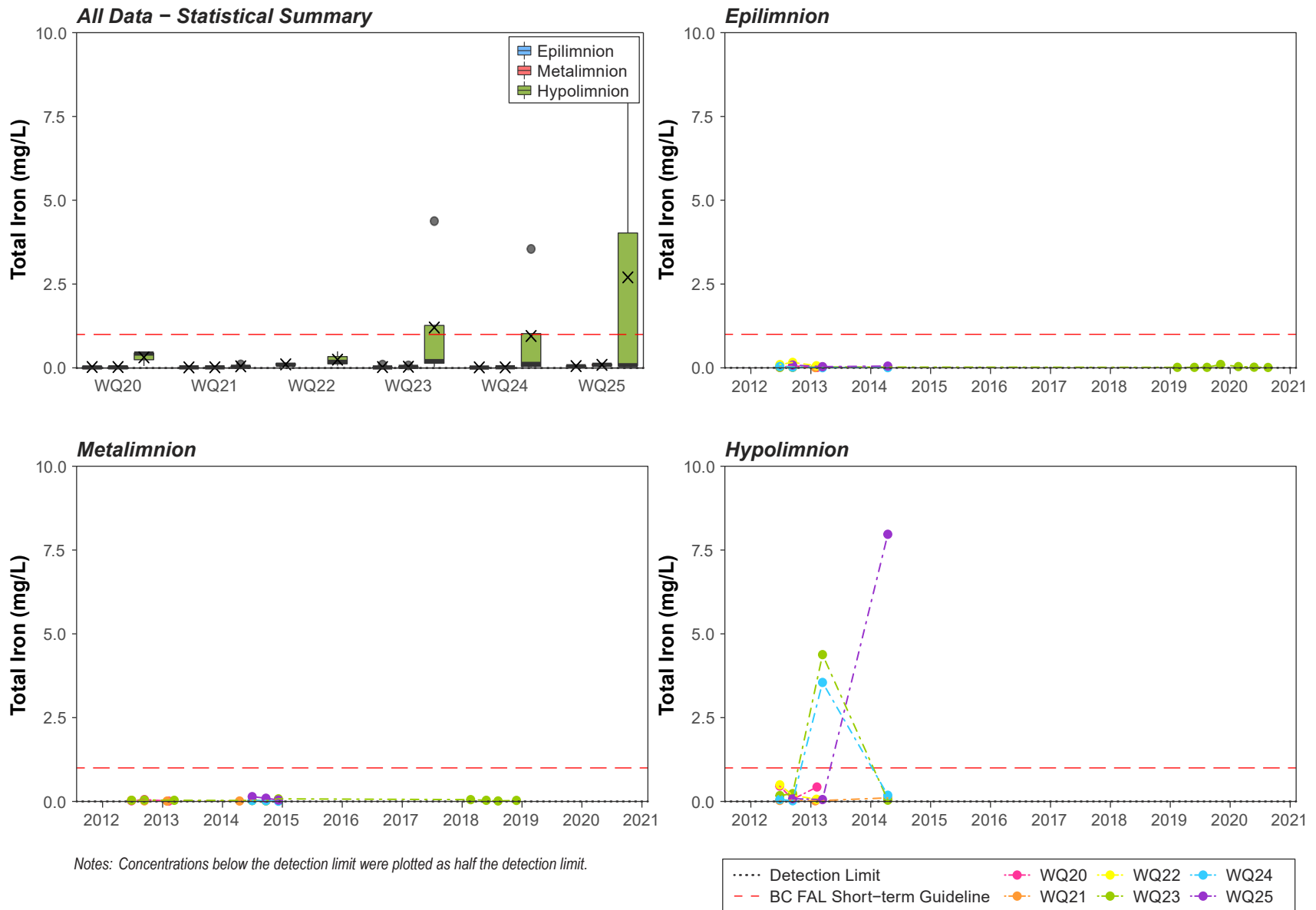


Figure 4.2-23: Total Iron Concentrations, Blackwater Gold Project Lakes, 2012 to 2020

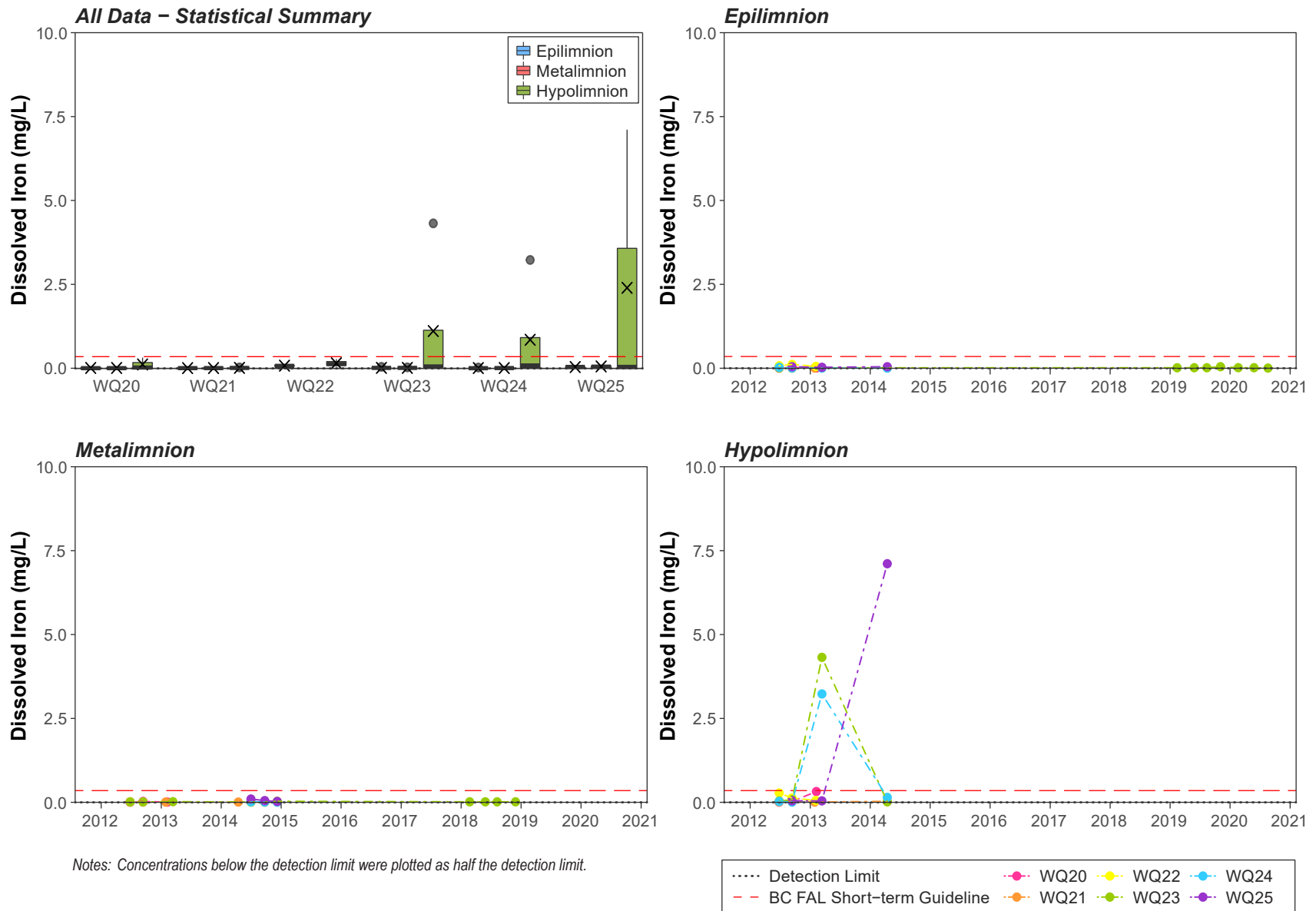


Figure 4.2-24: Dissolved Iron Concentrations, Blackwater Gold Project Lakes, 2012 to 2020

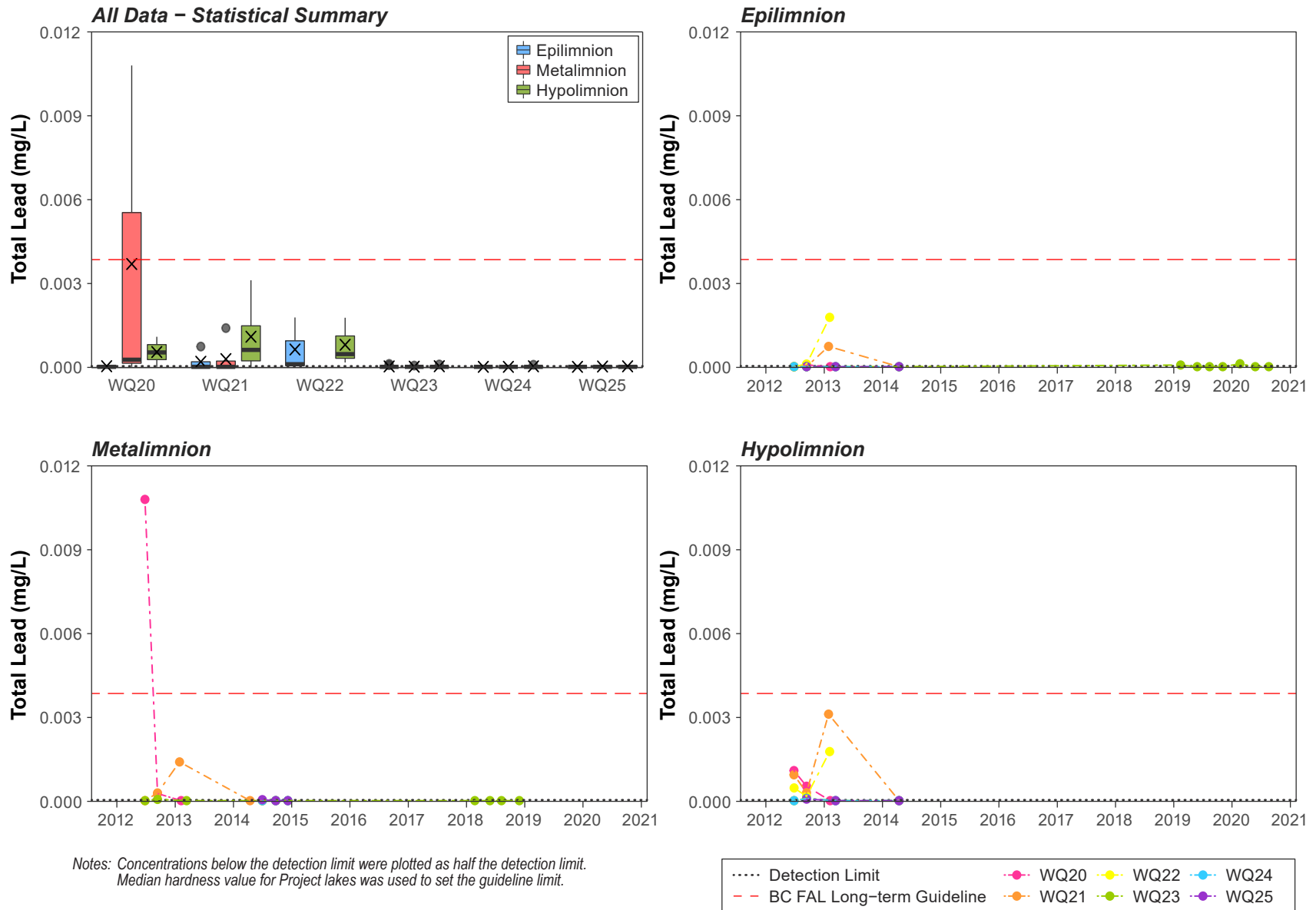


Figure 4.2-25: Total Lead Concentrations, Blackwater Gold Project Lakes, 2012 to 2020

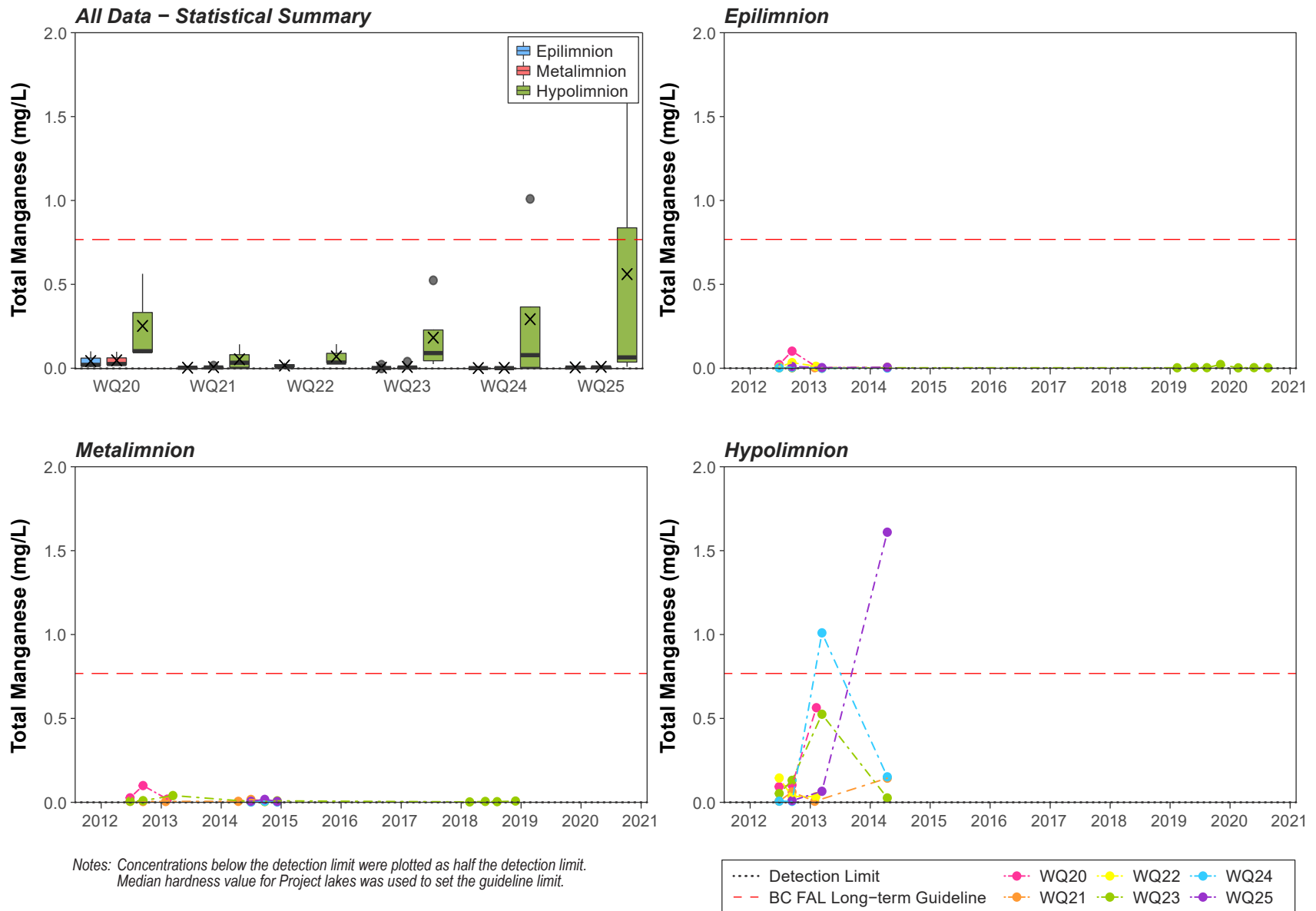


Figure 4.2-26: Total Manganese Concentrations, Blackwater Gold Project Lakes, 2012 to 2020

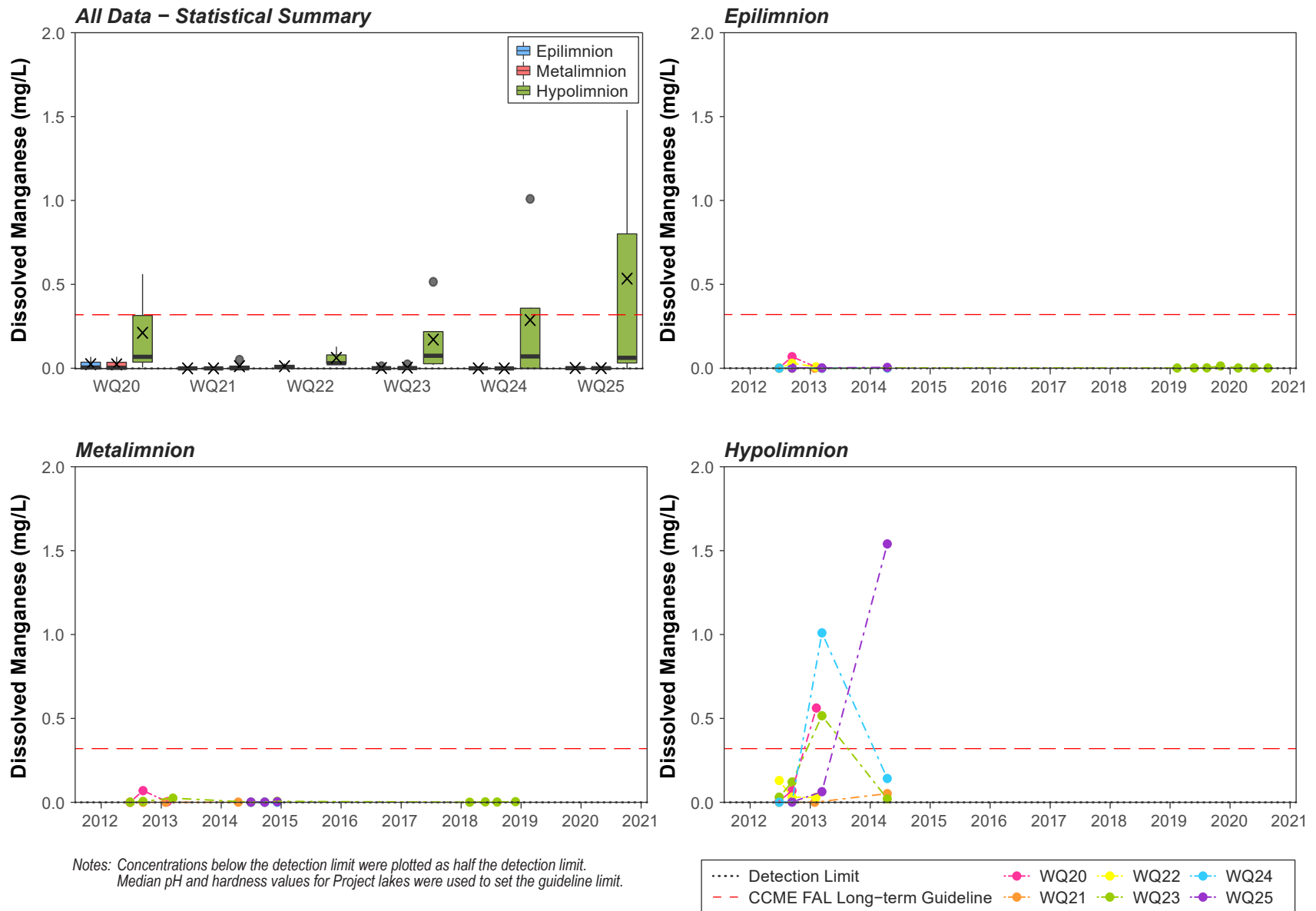


Figure 4.2-27: Dissolved Manganese Concentrations, Blackwater Gold Project Lakes, 2012 to 2020

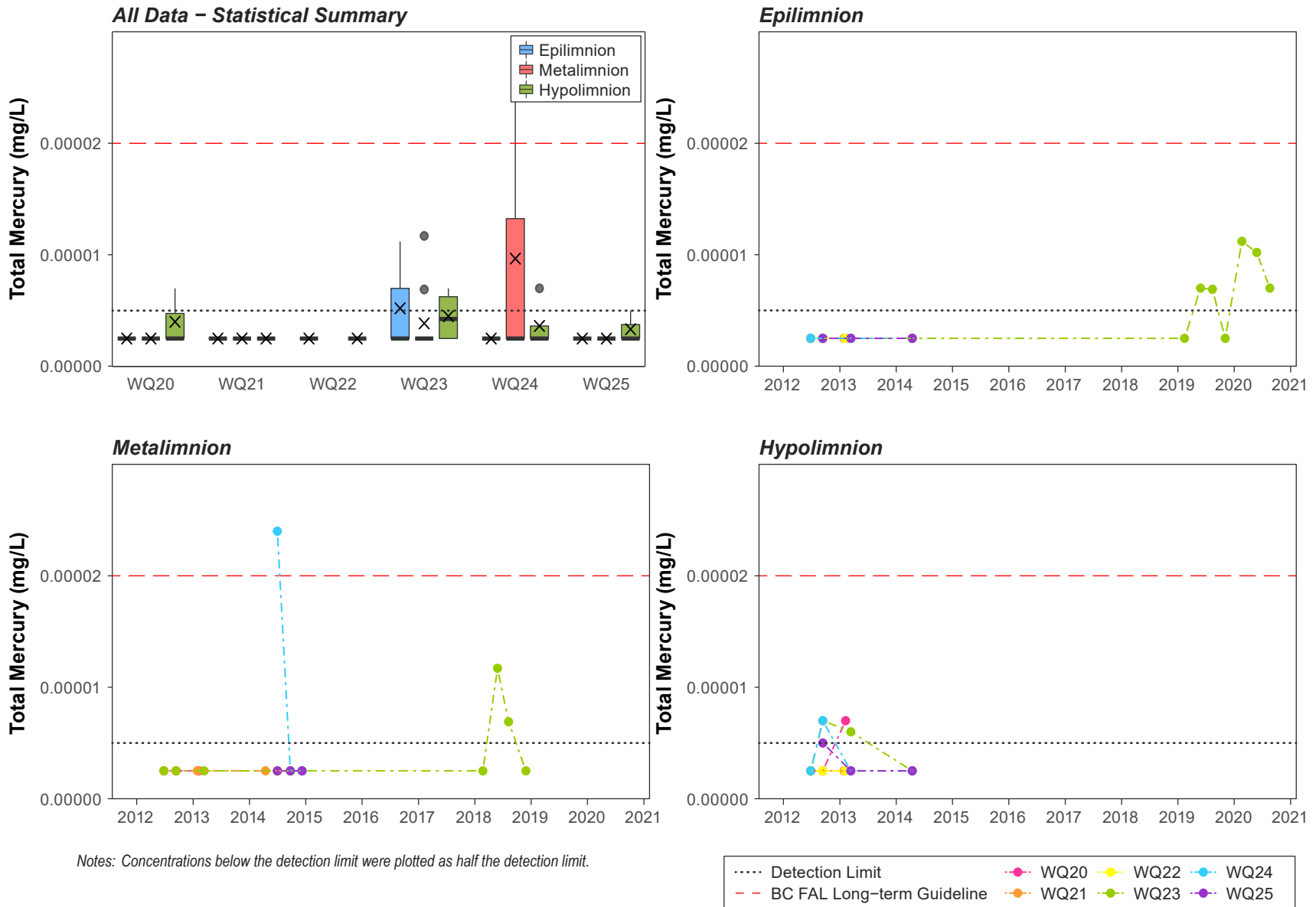
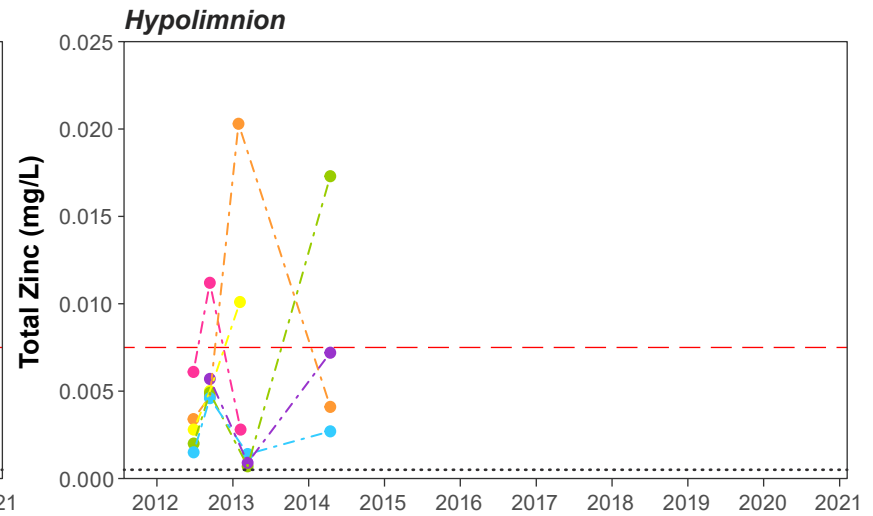
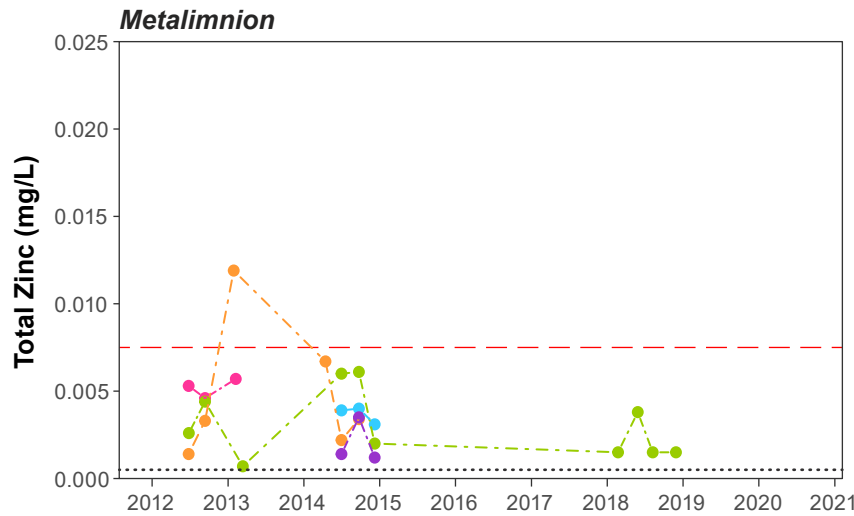
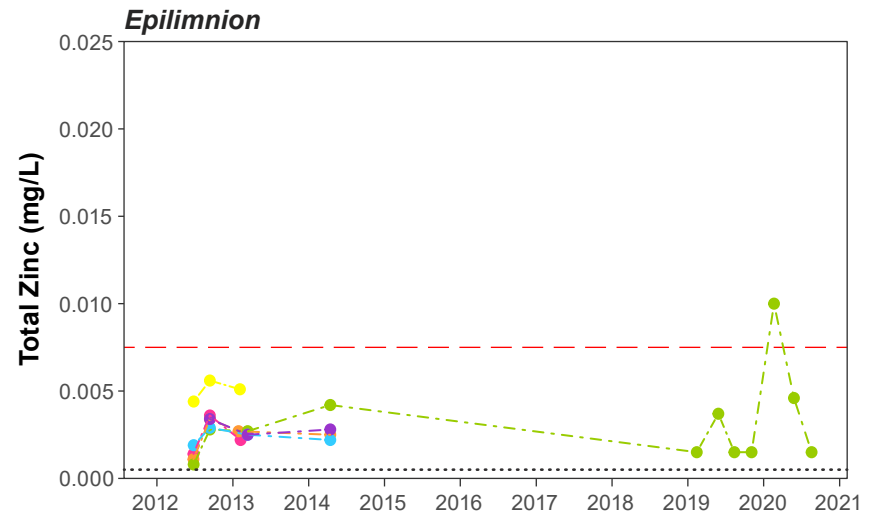
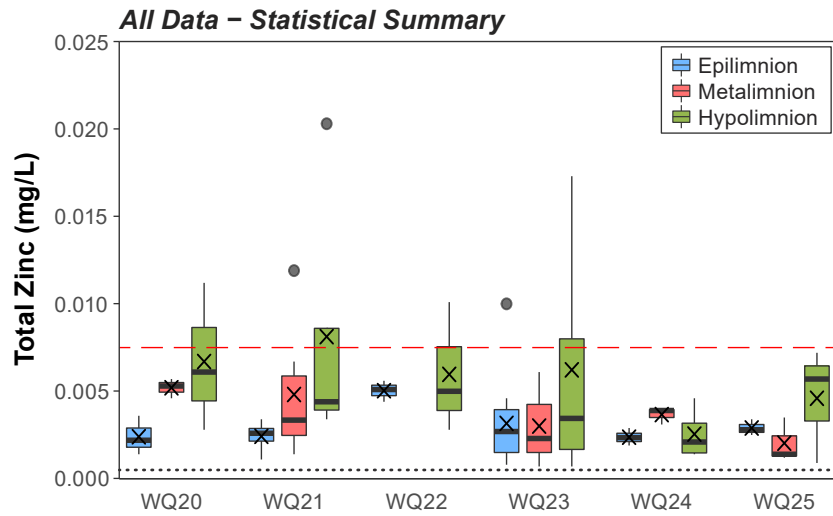


Figure 4.2-28: Total Mercury Concentrations, Blackwater Gold Project Lakes, 2012 to 2020



Notes: Concentrations below the detection limit were plotted as half the detection limit.
Median hardness value for Project lakes was used to set the guideline limit.

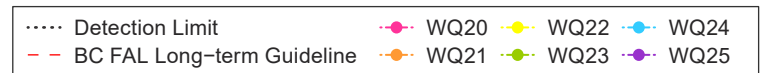
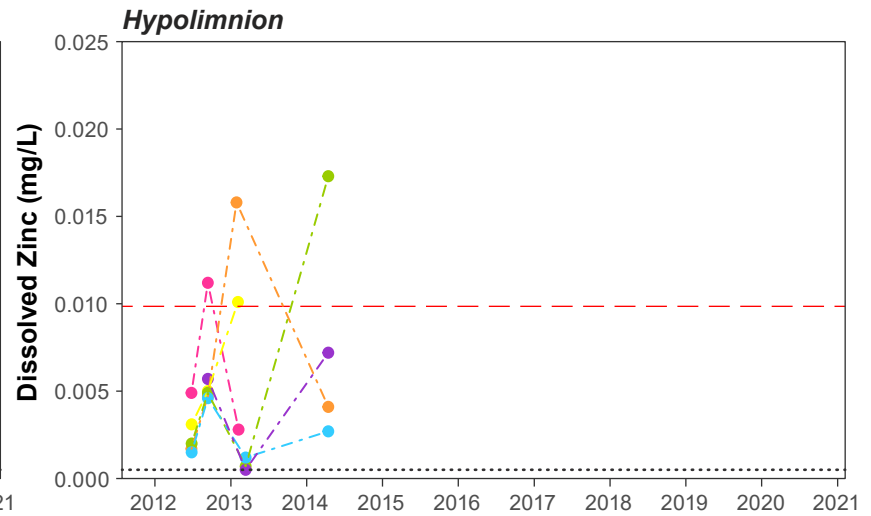
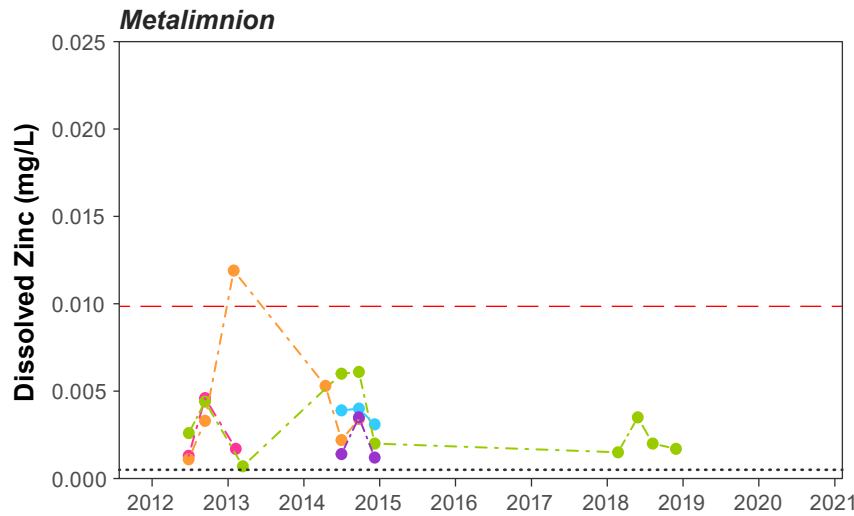
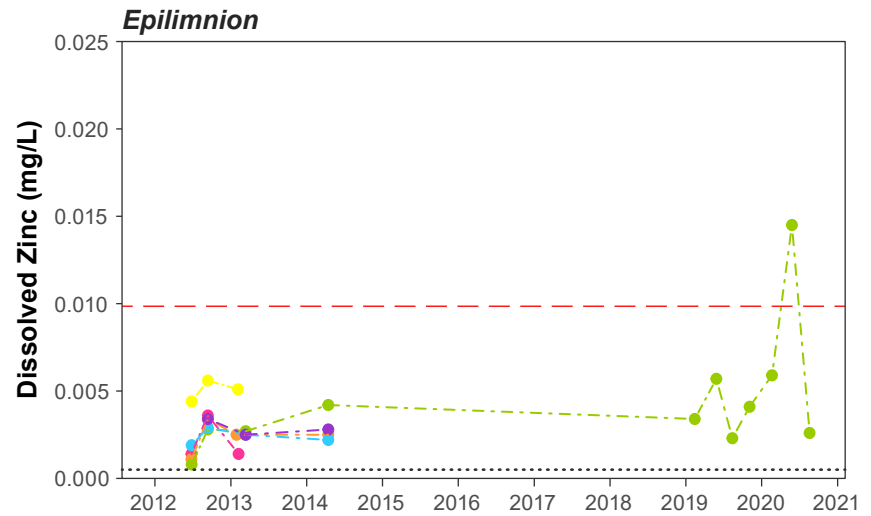
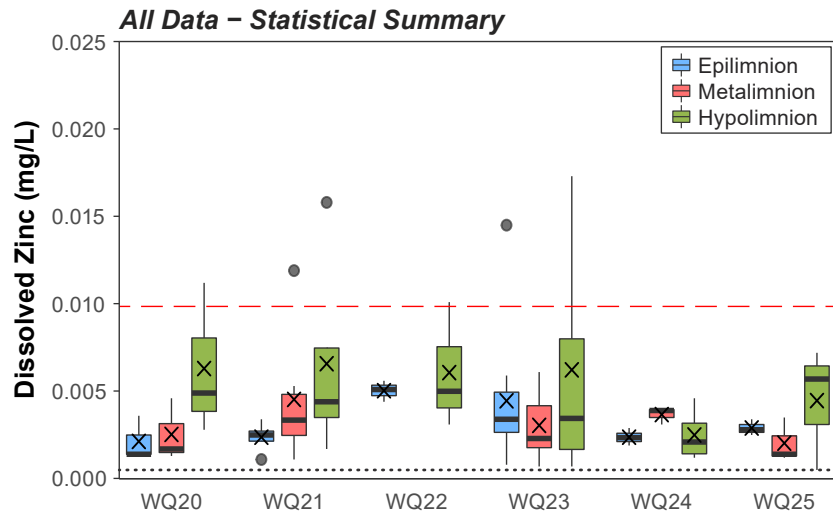


Figure 4.2-29: Total Zinc Concentrations, Blackwater Gold Project Lakes, 2012 to 2020



Notes: Concentrations below the detection limit were plotted as half the detection limit.
 Median pH and hardness and DOC values for Project lakes were used to set the guideline limit.



Figure 4.2-30: Dissolved Zinc Concentrations, Blackwater Gold Project Lakes, 2012 to 2020

Guideline exceedances were geographically controlled, varying by catchment and by distance from the Blackwater deposit. Guideline exceedances were more frequently observed in the lakes located in the headwaters of the Creek 705 watershed to the east of the Project (Lake 1538 [WQ24] and Lake 1428 [WQ25]). Eight parameters exceeded guidelines in Lake 1682 (WQ23), in the headwaters of the Davidson Creek watershed, although each exceedance was only observed in one or two samples from this lake.

Eight of the 13 parameters (total aluminum, total arsenic, dissolved copper, total and dissolved iron, and total and dissolved manganese) with observed guideline exceedances were only collected from the bottom of the lake. The highest levels of TSS and turbidity were observed in the hypolimnion layer, indicating potential sample contamination of metals associated with sediment from the floor of the lake. However, elevated concentrations of total iron and manganese were largely driven by elevated dissolved concentrations of these parameters, indicating these exceedances were not associated with sediment, but may be due to anoxic conditions at the bottom of the lakes.

Details of individual metals are discussed further in Section 4.2.7.

4.2.2 *Physical Parameters*

4.2.2.1 *pH and Alkalinity*

Project area lakes were near-neutral to slightly alkaline, with measured pH values ranging from 7.04 (WQ23, April 2014) to 8.12 (WQ23, February 2018; Figure 4.2-1). Measured pH values were slightly higher in lakes along Chedakuz Creek (Kuyakuz Lake [WQ20] and Tatelkuz Lake [WQ21]), than in lakes at higher elevations. Inter-annual or intra-annual (seasonal) variability in pH was not observed in Project lakes, and pH values did not appear to vary with depth. No pH values were measured outside BC ENV water quality guideline range (6.5 to 9.0).

Similarly to pH, total alkalinity in Project lakes was highest in Kuyakuz and Tatelkuz lakes and generally lowest in the Davidson Creek and Creek 705 headwater lakes; total alkalinity in Snake Lake (WQ22) was typically between these two extremes (Figure 4.2-2). Alkalinity values in Kuyakuz, Tatelkuz, and Snake lakes were above 20 mg/L as CaCO₃ year-round, indicating low sensitivity to acid inputs. Total alkalinity, although lower, was also typically above 10 mg/L as CaCO₃ in Lake 1682 (WQ23), Lake 1538 (WQ24), and Lake 1428 (WQ25), and usually above 20 mg/L as CaCO₃, indicating moderately to low sensitivity to acid inputs. The exception was in September 2012, when alkalinity values below the detection limit (1 mg/L) were observed in all three headwater lakes.

4.2.2.2 *Hardness and Total Dissolved Solids*

Comparable to alkalinity, hardness concentrations were highest in Kuyakuz and Tatelkuz lakes, ranging from 61.4 mg/L as CaCO₃ (WQ21, June 2012) to 87.6 mg/L as CaCO₃ (Kuyakuz lake [WQ20], February 2013; Figure 4.2-3). Therefore, Kuyakuz and Tatelkuz lakes were both classified as moderately hard lakes. Snake Lake and the three headwater lakes were observed to have soft water; hardness concentrations in these four lakes ranged from 16.1 mg/L as CaCO₃ (Lake 1682 [WQ23], May 2020) to 51.3 mg/L as CaCO₃ (Snake Lake [WQ22], February 2013). Seasonal variability was not observed in hardness concentrations, and hardness did not appear to vary with depth.

Total dissolved solids followed the same overall pattern as alkalinity and hardness, with higher values observed in Kuyakuz and Tatelkuz Lakes and lower values observed in Snake Lake and the three headwater lakes (Figure 4.2-4). However, more seasonal variability was observed in TDS measurements than in alkalinity or hardness. Total dissolved solids were typically higher during winter months (representing under-ice measurements) than when measured in summer and early fall.

4.2.3 *Suspended Material*

Total suspended solids and turbidity were typically low in Project lakes (Figures 4.2-5 and 4.2-6). Measured TSS values collected from the surface and middle of all six lakes were near or below the detection limit (2 or 3 mg/L); the maximum measured TSS value at these two depths was 4 mg/L (Tatelkuz Lake [WQ21], June and September 2012). Turbidity values at these two depths ranged from 0.1 NTU (Lake 1538 [WQ24], December 2014) to 3.4 NTU (Kuyakuz Lake [WQ20], February 2013).

Substantially higher TSS and turbidity values were measured in samples collected from the bottom of Project lakes, up to a maximum TSS value of 34 mg/L (Kuyakuz Lake [WQ20], June 2012) and maximum turbidity of 140 NTU (Kuyakuz Lake [WQ20], February 2013). Higher suspended material in samples collected from the bottom of the lake likely represent disturbed or captured lake bottom sediments.

Although TSS and turbidity values were low year-round, minor seasonal variability was observed in suspended material; samples collected in winter months (under ice) more frequently contained TSS values below detection. This result indicates reduced that under ice-covered conditions, sediment loads in lakes are reduced, due to settling of suspended material and absence of sediment inputs to lake surfaces.

4.2.4 *Nutrients and Organic Carbon*

Various nitrogen species were measured in Project lakes, including nitrate, nitrite, and ammonia (Figures 4.2-7 to 4.2-9) and TKN (Appendix D). Total nitrogen was low in Project lakes, and predominantly in its organic form as represented by TKN, although nitrate was occasionally the dominant species. All nitrogen species were below applicable water quality guidelines.

Nitrate concentrations were variable, ranging from below the analytical detection limit in many samples (0.005 mg/L) to a maximum of 0.7 mg/L in Lake 1682 (WQ23; December 2014). Variability was predominantly seasonal; most occurrences of nitrate concentration below the detection limit were observed in open water months (June, July, and September) and elevated concentrations were observed during winter months when lakes were frozen. Nitrate concentrations were typically highest in Tattelkuz Lake (WQ21) and Snake Lake (WQ22), with individual elevated samples also collected in Lake 1682 (WQ23).

Nitrite concentrations were close to or below the analytical detection limit (0.003 or 0.001 mg/L) in most lake samples; the maximum measured nitrite concentration was 0.005 mg/L (Kuyakuz Lake [WQ20], February 2013).

Ammonia concentrations were also close to or below the analytical detection limit (0.02 or 0.005 mg/L). The exceptions were four samples with elevated ammonia concentrations collected from the bottom of Project lakes in the spring of 2013 or 2014 (Kuyakuz Lake [WQ20], Lake 1682 [WQ23], and Lake 1538 [WQ24]) and 2014 (Lake 1428 [WQ25]). As these samples were collected through ice, elevated ammonia concentrations were likely due to disturbed or captured lake bottom sediments.

Elevated phosphorus concentrations were also observed in the four samples collected from the bottom layer of Kuyakuz Lake (WQ20), Lake 1682 (WQ23), and Lake 1538 (WQ24) in early 2013, and Lake 1428 (WQ25) in early 2014 (Figure 4.2-10). With the exception of those four samples, phosphorus concentrations indicated conditions ranging from ultra-oligotrophic (< 0.004 mg/L) to meso-eutrophic (0.02 to 0.035 mg/L, and exhibited minimal variability with depth or location.

Organic carbon concentrations in Project lakes were variable (Figure 4.2-11 and 4.2-12). The majority of TOC was in the dissolved phase as DOC. Measured TOC concentrations were highest in Snake Lake (WQ22), and were similar among Kuyakuz Lake (WQ20), Tattelkuz Lake (WQ21), and Lake 1428 (WQ25). Concentrations of TOC were lower in Lake 1682 (WQ23) and Lake 1538 (WQ24). Maximum TOC concentrations were observed in all Project lakes in September 2012. Organic carbon concentrations did not appear to vary substantially with depth.

4.2.5 Cyanides

Total and WAD cyanide concentrations in Project lakes were below the analytical detection limit (0.005 mg/L) in all samples collected from Project lakes (Appendix D).

4.2.6 Major Anions

Chloride, fluoride, and sulphate concentrations were low in Project lakes and did not approach BC water quality guidelines (Figures 4.2-13 to 4.2-15).

Chloride concentrations were typically lowest in late summer and fall, and highest in samples collected under-ice, with the exception of two potential outlier values from the middle layer of Lake 1682 (WQ23; 2.8 mg/L in September 2014) and Lake 1538 (WQ24; 1.6 mg/L in December 2014). Other than these samples, chloride values were consistent among all Project lakes.

Fluoride concentrations were typically highest in Kuyakuz (WQ20), Tatelkuz (WQ21), and Snake (WQ22) lakes, and lower in the three headwater lakes. Variability with depth and consistent seasonal variation were not observed. One measurement of 0.16 mg/L from the middle layer of Lake 1538 (WQ24; December 2014) corresponded to an elevated chloride concentration and was a potential outlier.

Sulphate concentrations ranged from below the detection limit (0.5 or 0.3 mg/L) to a maximum of 4.9 mg/L (Tatelkuz Lake [WQ21], January 2013). Sulphate concentrations were generally higher in under-ice samples. Sulphate variability with depth was not observed. Measured sulphate concentrations were greatest in Tatelkuz Lake (WQ21).

4.2.7 Total and Dissolved Metals

This section focusses on total and dissolved metals with identified guideline exceedances (see Table 4.2-1). Total and dissolved metals approaching or exceeding water quality guidelines are plotted in Figures 4.2-16 to 4.2-30; see Appendix E for other metals. All lake water quality data are compiled in Appendix D.

Exceedances of water quality guidelines were observed for 13 parameters: total aluminum, total arsenic, total cadmium, total and dissolved copper, total and dissolved iron, total lead, total and dissolved manganese, total mercury, and total and dissolved zinc. Many of these exceedances were observed in the headwater lakes (Lake 1682, Lake 1538, and Lake 1428), closest to the Blackwater deposit, where entrained lake sediments were more likely to contain elevated metals due to the proximity of the mineralized zone.

Guideline exceedances for total aluminum, total arsenic, dissolved copper, total and dissolved iron, and total and dissolved manganese were restricted to individual samples collected from the lower layer of lakes. Variability with depth was observed in Project lakes for total and dissolved iron, and total and dissolved manganese. The exceedances of other parameters exclusively occurred at the bottom layer and may be attributed to sample contamination by lake bottom sediments. The highest levels of TSS and turbidity were observed in the hypolimnion layer, indicating potential sample contamination with sediment from the floor of the lake. However, total and dissolved iron and manganese, not associated with sediment, may be naturally elevated due to reductive dissolution of iron and manganese minerals under anoxic conditions at the bottom of lakes. Peak concentrations of ammonia, iron, and manganese observed in samples collected from the lake bottom indicate lakes were stratified during winter and early spring and were well-mixed in the summer open water months.

Total cadmium concentrations exceeded the hardness-dependent CCME long-term guideline in Tatelkuz Lake (WQ21) in January 2013, Lake 1538 (WQ24) and Lake 1428 in September 2012 (WQ25; Figure 4.2-19). Dissolved cadmium concentrations were typically below the analytical detection limit (0.000015 or 0.000005 mg/L) and did not approach the BC water quality guideline (Figure 4.2-20).

Total copper exceedances were observed at Kuyakuz Lake (WQ20, 0.0028 mg/L in June 2012) and Lake 1682 (WQ23, 0.0033 mg/L in August 2019). Total copper concentrations did not vary substantially with depth (Figure 4.2-21).

The total lead concentration exceeded the hardness-dependent BC long-term average water quality guideline in one sample collected from the middle layer of Kuyakuz Lake (WQ20; 0.011 mg/L in June 2012). Total lead concentrations were below water quality guidelines for all other lakes and sampling events (Figure 4.2-25).

One slight exceedance (factor = 1.2) of the total mercury BC long-term average water quality guideline (0.00002 mg/L) was observed in Project lakes, in the middle layer of Lake 1538 (WQ24; 0.000024 mg/L in July 2014). Total mercury concentrations were generally below or near the analytical detection limit in Project lakes (Figure 4.2-28).

Total zinc was the parameter most frequently measured at concentrations above water quality guidelines (Figure 4.2-29, Table 4.2-1). Although several instances of zinc concentrations exceeding water quality guidelines were limited to the bottom of the lake, suggesting inputs from lake bottom sediments, zinc concentrations were also elevated in the surface (WQ23 in February 2020) and middle layers (WQ21 in January 2013). Total zinc concentrations in the surface layer were greatest in Snake Lake (WQ22), although concentrations did not exceed water quality guidelines in this lake. Exceedances of dissolved zinc guidelines were observed in Lake 1682 (WQ23) in April 2014 and May 2020.

Overall, metal concentrations were low in Project lakes. Higher concentrations of most metals and more guideline exceedances were typically observed in the headwater lakes, close to mineralized areas; however, more variability in metal concentrations was observed in the larger lakes (Kuyakuz and Tatelkuz lakes).

4.3 Quality Assurance and Quality Control (QA/QC)

4.3.1 Field and Travel Blanks

Field and travel blank data for water quality sampling are presented in Appendix F. With the exception of pH, concentrations of water quality parameters are expected to be below the detection limit. Measured parameters above the detection limit in field blanks represent potential sample contamination during sample preservation or contamination during field blank preparation. Measured parameters above the detection limit in travel blanks potentially represent contamination of samples in transit, contamination during lab analysis, or contamination during travel blank preparation.

Detectable values were measured with more frequency for physical parameters, anions, nutrients, and organic carbon. In particular, turbidity was measured in 26% of both field and travel blanks. Acidity was measured in 80% of field blanks and 86% of travel blanks; however, detection of acidity can be expected in deionized water due to the dissolution of carbon dioxide. Alkalinity was measured in 11% of field blanks and 12% of travel blanks. Detected values of nitrate and nitrite were less than 3% for both field and travel blanks. Ammonia was measured in 17% of travel blanks but 4% in field blanks, indicating potential lab contamination. Chloride was measured in 12% of both field and travel blanks. Fluoride was measured in 9% of field blanks and 8% of travel blanks, and sulphate was measured in 5% of field blanks and 6% of travel blanks. Cyanides were not detected in the blanks except for thiocyanate in 8% of field blanks. DOC and TOC were measured in 27% and 20% of analyzed field blanks and 17% and 10% of travel blanks, respectively.

For total and dissolved metals, detectable values were infrequently measured, with the exception of total boron (measured in 14% of both field and travel blanks), dissolved boron (measured in 10% of field blanks and 22% of travel blanks), total iron (measured in 5% of field blanks), total barium (measured in 6% of field blanks), dissolved barium (measured in 14% of field blanks), dissolved manganese (measured in 5% of field blanks), dissolved strontium (measured in 5% of field blanks), dissolved tin (measured in

5% of field blanks), and dissolved zinc (measured in 7% of travel blanks). All other total and dissolved metals were measured above the detection limit in less than 5% of blanks.

The frequency of detectable values being measured in blanks decreased substantially after 2014, coincident with the change of analytical laboratories from AMEC to ALS. After 2014, excluding pH, only eight parameters (acidity, ammonia, TKN, thiocyanate, dissolved barium, dissolved manganese, and dissolved tin) were measured in more than 5% of travel and/or field blanks. All other parameters were detected in less than 5% of field or travel blanks since 2014.

For parameters analyzed in both field and travel blanks by ALS (dissolved metals are not analyzed in travel blanks), values above the detection limit were observed more frequently in travel blanks than in field blanks. Overall, field and travel blanks collected since 2014 demonstrated improved quality, indicating that field sampling procedures were successful at avoiding sample contamination.

4.3.2 *Field Duplicates*

Since the start of surface water quality sampling in the Project area in 2011, 118 samples have been collected as field duplicates. As described in Section 3.4, RPD values were calculated to evaluate the variability among duplicate samples. Calculations of RPD were performed for all parameters with measured values greater than five times the MDL. The results of RPD calculations are provided in Appendix G for all Project duplicates.

A total of 3,653 RPD calculations were performed. The BC provincial government recommends that any field duplicates with RPD values exceeding 20% indicate a possible problem and RPD values above 50% suggest a definite problem, most likely either contamination or lack of sample representativeness (ENV 2013). Four percent (4.2%, n = 154) of RPD calculations were in the range of 20 to 50%, and 2.5% (n = 93) of calculations were greater than 50%. This result indicates that for the majority of parameters with values greater than five times the MDL in Project streams, sample replication was overall successful, within the typical margin of natural variability.

Of the total 3,653 RPD calculations, 1,266 RPDs were samples analyzed by AMEC (2014 and prior), and 2,387 RPDs were analyzed by ALS (2016 onwards). The number of RPD calculations greater than 20% in AMEC data was 154, corresponding to 12% of the total count. By contrast, less than 4% (n=93) of ALS RPDs were greater than 20%. This suggests that switching laboratory from AMEC to ALS overall increased the data quality.

Half (50%) of all RPD calculations greater than 20% were restricted to eight parameters: total dissolved solids, turbidity, total aluminum, total barium, total iron, total manganese, total titanium, and dissolved manganese. Turbidity is a naturally variable parameter, and total aluminum occurs at relatively high concentrations at many Project sites (see Section 4.1). Iron and manganese concentrations are also typically variable in Project streams. Therefore, these parameters likely reflect natural heterogeneity in Project streams, rather than analytical error or sample contamination.

Thirty percent (n=47) of all RPD calculations in the range of 20 to 50%, and 42% (n=39) of RPD calculations greater than 50%, were restricted to six individual sampling events: sampling at site WQ14 in July 2011 and January 2012, site WQ7 in August 2012 and January 2013, site WQ9 in September 2016 and site BI-09 in May 2020. Of the six sampling events, four were associated with high RPDs in turbidity (RPD varied from 37% to 81%); and the other two samples (WQ9 in September 2016 and site BI-09 in May 2020) were collected in May and September, corresponding to freshet and fall rainfall. These results suggest that these samples captured periods of naturally high variability rather than sample contamination and the strong influence of sediment on sample heterogeneity. Sites WQ14, WQ7, WQ9 and BI-09 are downstream sites with higher discharge relative to most other stream water quality sites, and consequently experience higher variability in sample chemistry. Overall, sample replication did not indicate any systematic issues with sampling or analytical methods.

5. MODELLED WATER QUALITY

Part e) of EAC #M19-01 Condition 27 requires a comparison of site-specific water quality metrics or standards developed by Aboriginal Groups under their own Aboriginal water policies to the modelled water quality at a point on Chedakuz Creek where water received from Davidson Creek is fully mixed into Chedakuz Creek.

Chedakuz Creek surface water quality predictions for the Construction and Operations phase at node WQ13 were used for the analysis. The surface water quality predictive model for the Project was updated in October 2021, including a re-evaluation of the potential for effects on surface water quality (see Chapter 5 (Modelling, Mitigation, and Discharges) and Chapter 6 (Environmental Assessment Predictions) in the Blackwater Project Joint Application for *Mines Act* and *Environmental Management Act* permits).

To determine whether non-degradation of surface water quality or concentrations below 50% of the assimilative capacity of Chedakuz Creek are achievable during Construction and Operations of the Project, a comparison to the Class II standard was completed. The Class II standard as defined in the *Yinka Dene 'Uza'hné Surface Water Management Policy* (Nadleh Whut'en and Stelat'en 2016a) was calculated as:

$$[Background] + (([WQG]-[Background])*0.5)$$

Where:

- *Background* (long-term standards) is the 95% Upper Confidence Limit of the average of the WQ13 baseline observations between 2011 and 2020 (values reported as less than detection limit were set equal to detection limit);
- *Background* (short-term standards) is the 95th percentile concentration of WQ13 baseline observations between 2011 and 2020 (values reported as less than detection limit were set equal to detection limit); and
- *WQG* is the lowest water quality guideline of the three sensitive water uses identified for Chedakuz Creek: aquatic life, wildlife, and drinking water.

Long-term standards were calculated using the lowest of the guidelines for the protection of freshwater aquatic life (see Appendix A; ENV 2019, 2020a; CCME 2020), BC wildlife water quality guidelines (ENV 2019) or BC drinking water guidelines (ENV 2020b) (Table 5-1). Short-term standards were calculated using the lowest of the short-term aquatic life guidelines (ENV 2019, 2020a; CCME 2020) (Table 5-1). For pH, hardness, DOC, and chloride dependent guidelines, the lowest monthly median hardness baseline value were used to calculate the guideline value. The highest mean monthly temperature recorded at nearest water temperature station, was used in the calculation of the temperature dependent guideline, total ammonia-N.

Comparison of the predicted concentrations at the WQ13 modelling node in Chedakuz Creek to the calculated Class II standards for Chedakuz Creek indicated the following parameter concentrations exceeded the long-term standards (Table 5-2): total aluminium (maximum), dissolved aluminium (95th percentile and maximum), total manganese (95th percentile and maximum), and fluoride (95th percentile and maximum).

Aluminum is naturally elevated within the Project area and baseline total and dissolved aluminum concentrations have exceeded aquatic life guidelines (see Table 4.1-1). Therefore, the predicted exceedance of total and dissolved aluminum Class II standards through Construction and Operations at WQ13 in Chedakuz Creek is attributed to the elevated baseline concentrations.

Table 5-1: Baseline Water Quality at the WQ13 in Chedakuz Creek and Water Quality Guidelines Used to Calculate Yinka Dene Water Law Class II Standards

Modelled Parameter	WQ13 Baseline 95% Upper Confidence Limit ¹	WQ13 Baseline 95 th Percentile ¹	Water Quality Guidelines						Lowest Long-term Water Quality Guideline ⁶	Lowest Short-term Water Quality Guideline
			BC Working and Approved Aquatic Life Guidelines ²		CCME Aquatic Life Guidelines ³		BC Wildlife Water Quality Guideline ⁴	BC Drinking Water Quality Guideline or Objective ⁵		
			Short-term	Long-term	Short-term	Long-term				
Ammonia-Nitrogen	0.018	0.035	6.72	1.21	-	0.59	-	-	0.59	6.72
Nitrate-Nitrogen	0.031	0.083	32.8	3	124	3	100	10	3	32.8
Nitrite-Nitrogen	0.0027	0.0050	0.06	0.02	-	0.06	10	1	0.02	0.06
Chloride	0.77	0.80	600	150	640	120	600	250	120	600
Fluoride	0.062	0.080	1.07	-	-	0.12	1	1.5	0.12	1.1
Sulphate	3.7	4.6	-	218	-	-	1000	500	218	-
Total Cyanide	0.0055	0.0050	-	-	-	-	-	0.2	0.2	-
WAD cyanide	0.0050	0.0050	0.01	0.005	-	-	-	-	0.005	0.01
Total Metals										
Aluminum	0.071	0.154	-	-	-	0.1	5	9.5	0.1	-
Antimony	0.000085	0.0001	-	0.009	-	-	-	0.006	0.006	-
Arsenic	0.00062	0.00074	0.005	-	-	0.005	0.025	0.01	0.005	0.005
Barium	0.011	0.0092	-	1	-	-	-	-	1	-
Beryllium	0.000091	0.0001	-	0.00013	-	-	0.1	-	0.00013	-
Boron	0.0074	0.01	-	1.2	29	1.5	5	5	1.2	29
Cadmium	0.000018	0.000025	-	-	0.00109	0.000093	0.08	0.005	0.000093	0.0011
Calcium	19	22	-	-	-	-	1000	-	1000	-
Chromium	0.00025	0.00031	-	0.001	-	0.001	0.05	0.05	0.001	-
Cobalt	0.000085	0.0001	0.11	0.004	-	-	1	0.001	0.001	0.11
Copper	0.00056	0.00077	-	-	-	0.002	0.3	1	0.002	-

Modelled Parameter	WQ13 Baseline 95% Upper Confidence Limit ¹	WQ13 Baseline 95 th Percentile ¹	Water Quality Guidelines						Lowest Long-term Water Quality Guideline ⁶	Lowest Short-term Water Quality Guideline
			BC Working and Approved Aquatic Life Guidelines ²		CCME Aquatic Life Guidelines ³		BC Wildlife Water Quality Guideline ⁴	BC Drinking Water Quality Guideline or Objective ⁵		
			Short-term	Long-term	Short-term	Long-term				
Total Metals (cont'd)										
Iron	0.2	0.26	1	-	-	0.3	-	0.3	0.3	1
Lead	0.00006	0.000065	0.036	0.0047	-	0.001	0.1	0.005	0.001	0.036
Lithium	0.0011	0.001	-	-	-	-	5	-	5	-
Manganese	0.03	0.053	1.12	0.84	-	-	-	0.02	0.02	1.1
Mercury	0.0004	0.000008	-	0.00002	-	0.000026	0.00002	0.001	0.00002	-
Molybdenum	0.0006	0.00071	46	7.6	-	0.073	0.034	0.088	0.034	46
Nickel	0.00044	0.0005	-	0.025	-	0.025	1	0.08	0.025	-
Selenium	0.00031	0.0006	-	0.002	-	0.001	0.002	0.01	0.001	-
Silver	0.000031	0.00005	0.0001	0.00005	-	0.00025	1	-	0.00005	0.0001
Strontium	0.095	0.11	-	-	-	-	-	7	7	-
Thallium	0.000031	0.00005	-	0.0008	-	0.0008	-	0.0008	0.0008	-
Uranium	0.00011	0.00014	-	0.0085	0.033	0.015	0.2	0.0085	0.0085	0.033
Vanadium	0.00052	0.00078	-	-	-	-	0.1	-	0.1	-
Zinc	0.0053	0.0043	0.033	0.0075	-	-	2	3	0.008	0.033
Dissolved Metals										
Aluminum	0.023	0.046	0.1	0.05	-	-	-	-	0.05	0.1
Cadmium	0.000017	0.000018	0.00030	0.00013	-	-	-	-	0.00013	0.0003
Calcium	18	22	-	-	-	-	1000	-	1000	-
Copper	0.00044	0.0006	0.0181	0.0030	-	-	-	-	0.003	0.018
Iron	0.095	0.15	0.35	-	-	-	-	-	-	0.35
Manganese	0.021	0.037	-	-	-	0.32	-	-	0.32	-

Modelled Parameter	WQ13 Baseline 95% Upper Confidence Limit ¹	WQ13 Baseline 95 th Percentile ¹	Water Quality Guidelines						Lowest Long-term Water Quality Guideline ⁶	Lowest Short-term Water Quality Guideline
			BC Working and Approved Aquatic Life Guidelines ²		CCME Aquatic Life Guidelines ³		BC Wildlife Water Quality Guideline ⁴	BC Drinking Water Quality Guideline or Objective ⁵		
			Short-term	Long-term	Short-term	Long-term				
Dissolved Metals (cont'd)										
Zinc	0.002	0.0032	-	-	0.073	0.014	-	-	0.014	0.073

All units are mg/L.

Dashes indicate there is no water quality guideline.

Bold values represent lowest water quality guideline used to calculate Class II standard.

¹ Baseline dataset includes samples collected April 2011 to September 2020; values reported as less than detection limit were set equal to detection limit value.

² British Columbia Guidelines for the Protection of Freshwater Aquatic Life (ENV 2019, 2020a); Calculated guidelines are based on baseline dataset, using lowest monthly median hardness, DOC, and/or chloride, median monthly pH, and highest mean monthly temperature recorded at nearest water temperature station.

³ Canadian Water Quality Guidelines for the Protection of Freshwater Aquatic Life, Canadian Council of Ministers of the Environment (CCME 2020); Calculated guidelines are based on baseline dataset, using lowest monthly median hardness, DOC, and/or chloride, median monthly pH, and highest mean monthly temperature recorded at nearest water temperature station.

⁴ British Columbia Wildlife Water Quality Guidelines (ENV 2020a).

⁵ British Columbia Drinking Water Quality Guidelines (ENV 2020b).

⁶ Long-term water quality guidelines include BC and CCME long-term guidelines for the protection of aquatic life, wildlife guidelines, and drinking water guidelines/objectives.

Table 5-2: Comparison of Yinka Dene Water Law Class II Standards to Modelled Surface Water Quality at the WQ13 Node in Chedakuz Creek

Modelled Parameter	Class II Standard ¹		Predicted Base Case Concentration at WQ13 (Construction and Operations) ²				
	Short-term	Long-term	Minimum	Median	Mean	95 th Percentile	Maximum
Ammonia-Nitrogen	3.4	0.3	0.01	0.03	0.03	0.06	0.08
Nitrate-Nitrogen	16	1.5	0.01	0.11	0.13	0.3	0.47
Nitrite-Nitrogen	0.033	0.011	0.0009	0.0017	0.0018	0.0031	0.0043
Chloride	300	60	0.3	0.3	0.3	0.4	0.5
Fluoride	0.58	0.091	0.06	0.07	0.07	0.1	0.13
Sulphate	-	111	3.2	6.2	7.3	15	23
Total Cyanide	-	0.1	0.002	0.003	0.003	0.003	0.003
WAD cyanide	0.0075	0.005	0.002	0.003	0.003	0.003	0.003
Total Metals							
Aluminum	-	0.086	0.028	0.05	0.053	0.083	0.094
Antimony	-	0.003	0.000058	0.000184	0.000289	0.000912	0.00127
Arsenic	0.0029	0.0028	0.0006	0.0006	0.0006	0.0007	0.0008
Barium	-	0.51	0.0061	0.0067	0.0066	0.0071	0.0074
Beryllium	-	0.00011	0.00005	0.00005	0.00005	0.00005	0.00005
Boron	15	0.6	0.0044	0.0054	0.0057	0.0072	0.0094
Cadmium	0.00056	0.000055	0.0000049	0.000007	0.0000072	0.0000108	0.0000133
Calcium	-	509	18	19	20	22	23
Chromium	-	0.00063	0.00015	0.00019	0.00019	0.00026	0.00033
Cobalt	0.055	0.00054	0.00005	0.00008	0.00009	0.00015	0.00018
Copper	-	0.0013	0.00027	0.0003	0.00032	0.0004	0.00041
Iron	0.63	0.25	0.09	0.1	0.11	0.12	0.13
Lead	0.018	0.00053	0.000031	0.000051	0.000056	0.0001	0.00014
Lithium	-	2.5	0.0005	0.001	0.0014	0.0039	0.0069

Modelled Parameter	Class II Standard ¹		Predicted Base Case Concentration at WQ13 (Construction and Operations) ²				
	Short-term	Long-term	Minimum	Median	Mean	95 th Percentile	Maximum
Total Metals (cont'd)							
Manganese	0.58	0.025	0.014	0.021	0.023	0.046	0.053
Mercury	-	0.00021	0.0000027	0.0000033	0.0000033	0.0000041	0.0000046
Molybdenum	23	0.017	0.00052	0.00067	0.00068	0.00085	0.00093
Nickel	-	0.013	0.00025	0.00028	0.00028	0.00034	0.00039
Selenium	-	0.00065	0.000072	0.000084	0.000087	0.000126	0.000133
Silver	0.000075	0.00004	0.000008	0.000012	0.000012	0.00002	0.00002
Strontium	-	3.5	0.086	0.095	0.097	0.107	0.114
Thallium	-	0.00042	0.00001	0.00001	0.00001	0.00002	0.00003
Uranium	0.017	0.0043	0.0001	0.00011	0.00011	0.00013	0.00015
Vanadium	-	0.05	0.00029	0.00051	0.00063	0.00134	0.00211
Zinc	0.019	0.0064	0.0016	0.0019	0.0019	0.002	0.0022
Dissolved Metals							
Aluminum	0.073	0.036	0.003	0.013	0.016	0.042	0.055
Cadmium	0.00016	0.000074	0.000005	0.000007	0.000008	0.000011	0.000014
Calcium	-	509	17	19	19	21	22
Copper	0.0093	0.0017	0.00028	0.00031	0.00032	0.00038	0.00039
Iron	0.25	-	0.051	0.058	0.059	0.068	0.071
Manganese	-	0.17	0.0057	0.013	0.014	0.023	0.032
Zinc	0.038	0.0082	0.0009	0.0013	0.0013	0.0016	0.0017

All units in mg/L.

Dashes indicate there is no Class II Standard.

Bolded values indicate predicted concentration statistic is greater than the long-term Class II Standard.

¹Calculated Class II Standard as defined in Yinka Dene 'Uza'hné Surface Water Management Policy (Nadleh Whut'en and Stellat'en 2016a).

²Predicted WQ13 results reflect Base Case of the water balance/water quality model with Base Case source terms.

Similarly, total manganese baseline concentrations at WQ13 have exceeded the BC Drinking Water Guideline (0.02 mg/L; ENV 2020b). Thus predicted exceedance of the total manganese Class II standard through Construction and Operations at WQ13 in Chedakuz Creek is attributed to the elevated baseline concentrations. In addition, the BC Drinking Water Guideline for total manganese used to calculate the Class II standard, considers the aesthetic objective and does not consider risk to human health (ENV 2020b; Table 5-1). A maximum acceptable concentration for manganese has been set at 0.12 mg/L by the Canadian Drinking Water Guidelines (Health Canada 2020). The maximum acceptable concentration is based on the protection of ongoing consumption of tap water by infants. Predicted total manganese concentrations are lower than the maximum acceptable concentration (Table 5-1). Thus, the predicted concentrations of total manganese through Construction and Operations at WQ13 modelling node in Chedakuz Creek are likely to pose periodic aesthetic drinking water exceedances but not a toxicological risk to human health.

Baseline fluoride concentrations have not exceeded the CCME long-term water quality guideline used to calculate the Class II standard (Table 5-1). However the predicted exceedances of the fluoride standard at WQ13 in Chedakuz Creek is a slight exceedance of the maximum predicted concentration (factor = 1.4) and will be periodic (i.e., exceedance of the 95th percentile).

6. SUMMARY

6.1 Stream Water Quality

Water quality samples were collected at key stream sites related to the proposed Project at a range of intervals including weekly, monthly, quarterly, and annual sampling. Twenty-six stream and river sampling sites spanning seven watersheds were included in the 2011 to 2020 water quality program. Twenty-one sites were sampled at least once from 2014 through 2020. Sampled watersheds included Creek 661, Davidson Creek, Turtle Creek, and Chedakuz Creek on the eastern side of the Project; Creek 705 and a reference site on Fawnie Creek to the west of the Project; and additional reference sites in the Blackwater River watershed to the south of the Project.

The most commonly observed guideline exceedances in Project streams were total and dissolved aluminum, total cadmium, total chromium, total and dissolved copper, and total and dissolved zinc; guideline exceedances for each of these parameters were observed in all Project watersheds, and with the exception of aluminum, were primarily attributed to mineralization in the Blackwater deposit. Dissolved cadmium, total chromium, and total and dissolved iron concentrations were also above guidelines in most watersheds. Other parameters observed above guidelines were nitrite, total arsenic, dissolved cadmium, total and dissolved iron, total mercury, and total silver; pH values were also observed below the BC lower guideline limit.

Total metals were frequently dominated by the dissolved form, and consequently followed similar temporal and spatial patterns to TDS (reduced concentrations during periods of increased flow). The primary exception was aluminum. Total and dissolved aluminum were both elevated across the Project area, and aluminum trends generally followed the same pattern as TSS.

The greatest number of parameters with guideline exceedances for total and dissolved metals were observed in upper Creek 661 at site WQ4, the furthest upstream site. Natural elevation of metal concentrations at this site can be attributed to the site's proximity to the Blackwater deposit; site WQ4 is adjacent to the footprint of the proposed open pit. Metal exceedances associated with deposit mineralization in Creek 661, Davidson Creek, and to a lesser extent in Creek 705, included total and dissolved cadmium, dissolved iron, and total and dissolved zinc. Concentrations of these parameters were attenuated along the Creek 661, Davidson Creek, and Creek 705 flowpaths. Copper and chromium concentrations were also frequently elevated but were not typically associated with the mineral deposit.

Although elevated metal concentrations at sites proximal to the mineral deposit were attenuated along the Creek 661, Davidson Creek, and Creek 705 flowpaths; Total chromium, total and dissolved iron, and total and dissolved zinc (parameters associated with the deposit) were also elevated at WQ7 in lower Davidson Creek. However, total and dissolved zinc exceedances were restricted to samples collected during 2011 - 2014 and analyzed by AMEC. The maximum measured zinc concentration at WQ7 (0.133 mg/L, June 2012) is greater than the 99th percentile of values for this site and is therefore an outlier. This data point is recommended to be removed from future analysis. Previous assessments of elevated metals in lower Davidson Creek (AMEC 2013, ERM 2018) that included this data point likely overestimated baseline zinc concentrations at this site. Total chromium and total iron exceedances were not observed elsewhere in Davidson Creek. The cause of elevated total chromium and total iron concentrations at WQ7 was not identified.

6.2 Lake Water Quality

Six lakes in the Project area were sampled from 2012 to 2014 and 2018 onwards. From 2012 to 2014, sampling was conducted during both winter (under-ice) and open water months. Where lake depth allowed (>10 m), samples were collected at three depths; shallower lakes were sampled at two depths. No samples were collected during 2015 to 2017. Quarterly sampling at the surface of Lake 1682 (WQ23) was reinitiated in February 2018.

Exceedances of water quality guidelines were observed for 13 parameters: total aluminum, total arsenic, total cadmium, total and dissolved copper, total and dissolved iron, total lead, total and dissolved manganese, total mercury, and total and dissolved zinc. Of these parameters, guideline exceedances for total aluminum, total arsenic, dissolved copper, total and dissolved iron, total and dissolved manganese were restricted to individual samples collected from the lower layer of lakes, and may be attributed to sample contamination by lake bottom sediments. The highest levels of TSS and turbidity were observed in the hypolimnion layer, indicating potential sample contamination with sediment from the floor of the lake. However, total and dissolved iron and manganese, not associated with sediment, may be naturally elevated due to reductive dissolution of iron and manganese minerals under anoxic conditions at the bottom of the lakes. Peak concentrations of ammonia, iron, and manganese observed in samples collected from the lake bottom indicate lakes were stratified during winter and early spring and were well-mixed in the summer open water months.

The most frequently observed guideline exceedances were for total zinc and dissolved manganese. Guideline exceedances were geographically controlled, varying by catchment and by distance from the Blackwater deposit. Guideline exceedances were more frequently observed in the lakes located in the headwaters of the Creek 705 watershed to the east of the Project (Lake 1538 and Lake 1428).

6.3 Modelled Water Quality

Modelled water quality concentrations through Construction and Operations at the WQ13 modelling node in Chedakuz Creek were compared to Class II standards as defined in the *Yinka Dene 'Uza'hné Surface Water Management Policy* (Nadleh Whut'en and Stellat'en 2016a). Concentrations of total aluminium (maximum), dissolved aluminium (95th percentile and maximum), total manganese (95th percentile and maximum), and fluoride (95th percentile and maximum) are predicted to exceed the calculated Class II standards for Chedakuz Creek. Exceedance of the standards for predicted concentrations of total and dissolved aluminium and total manganese is attributed to the elevated baseline concentrations. Predicted exceedance of the fluoride Class II standard will be periodic and relatively minor (exceedance of the maximum is by a factor = 1.4).

7. REFERENCES

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APPENDIX A PROVINCIAL AND FEDERAL WATER QUALITY GUIDELINES FOR THE PROTECTION OF FRESHWATER AQUATIC LIFE

Appendix A: Provincial and Federal Water Quality Guidelines for the Protection of Freshwater Aquatic Life

Parameter	BC Water Quality Guidelines ^a	CCME Guideline for the Protection of Freshwater Aquatic Life ^b
Physical Tests		
pH	6.5 to 9.0	6.5 to 9.0
Total Suspended Solids	Dependent on background levels ^d	Dependent on background levels ^c
Turbidity (NTU)	Dependent on background levels ^f	Dependent on background levels ^e
Anions		
Chloride (Cl)	600 maximum; 150 for 30-day period	640 short-term; 120 long-term
Fluoride (F)	Hardness-dependent ^g	0.12 ^h
Sulphate (SO ₄)	Hardness-dependent ⁱ	-
Nutrients		
Ammonia, Total (as N)	pH- and temperature-dependent	pH- and temperature-dependent
Nitrate (as N)	32.8 maximum; 3.0 for 30-day period	550 short-term; 13 long-term
Nitrite (as N)	Chloride-dependent ^y	0.06 long-term
Phosphorus (P)-Total	0.005 to 0.015 (lakes)	Trigger ranges ^j
Cyanides		
Cyanide, Weak Acid Diss.	0.01 maximum; 0.005 for 30-day period	-
Cyanide, Free	-	0.005
Organic Carbon (Total/Dissolved)	Dependent on background levels ^k	-
Total Metals		
Aluminum (Al)	-	0.005 if pH < 6.5; 0.1 if pH ≥ 6.5
Antimony (Sb)	0.009 ^l	-
Arsenic (As)	0.005 30-day period	0.005 long-term
Barium (Ba)	1 ^l	-
Beryllium (Be)	0.00013 ^l	-
Boron (B)	1.2 30-day period	29 short-term; 1.5 long-term
Cadmium (Cd)	-	Hardness-dependent ^m
Chromium (Cr)	30-day: 0.001 (Cr[VI]), 0.0089 (Cr[III])	Long-term: 0.001 (Cr[VI]); 0.0089 (Cr[III])
Cobalt (Co)	0.11 maximum; 0.004 for 30-day period	-
Copper (Cu)	-	Hardness-dependent ^o
Iron (Fe)	1 maximum	0.3 long-term
Lead (Pb)	Hardness-dependent ^p	Hardness-dependent ^q
Manganese (Mn)	Hardness-dependent ^r	-
Mercury (Hg)	0.00002 when MeHg = 0.5% THg	0.000026
Molybdenum (Mo)	2 maximum; ≤1 for 30-day period	0.073 ^h
Nickel (Ni)	Hardness-dependent ^{t,s}	Hardness-dependent ^t
Selenium (Se)	0.002	0.001
Silver (Ag)	Hardness-dependent ^u	0.00025 long-term
Thallium (Tl)	0.0008 ^l	0.0008 long-term
Uranium (U)	0.0085 ^l	0.033 short-term; 0.015 long-term
Zinc (Zn)	Hardness-dependent ^v	0.03 long-term
Dissolved Metals		
Aluminum (Al)	pH-dependent ^w	-
Cadmium (Cd)	Hardness-dependent ^x	-
Copper (Cu)	Water chemistry-dependent ⁿ	-
Iron (Fe)	0.35 maximum	-
Manganese (Mn)	-	pH- and hardness-dependent ^{aa}
Zinc (Zn)	-	pH-, Hardness-, DOC-dependent ^z

Notes:

All units are in mg/L unless otherwise noted.

^a British Columbia Guidelines for the Protection of Freshwater Aquatic Life, approved (BC ENV 2016b) unless otherwise noted for a specific parameter.

^b Canadian Water Quality Guidelines for the Protection of Freshwater Aquatic life, Canadian Council of Ministers of the Environment (CCME 2020).

^c Total Suspended Solids (TSS) - in clear flow, maximum increase of 25 mg/L from background levels for short-term exposure (e.g., 24-h period). Maximum average increase of 5 mg/L from background levels for long-term exposure. In high flow, maximum increase of 25 mg/L from background levels between 25-250 mg/L. If background is ≥ 250 mg/L, then it should not increase more than 10% of background levels.

^d TSS - change from background for 24-h period is 25 mg/L and 5mg/L for 30-day period; if background is 25-100 mg/L then change from background of 10 mg/L; if background > 100 mg/L then change from background of 10%.

^e Turbidity - in clear flow maximum increase of 8 NTUs from background levels for short-term exposure (e.g., 24 -h period). Maximum average increase of 2 NTUs from background levels for a longer term exposure (e.g., 30-d period). In high flow maximum increase of 8 NTUs from background levels (8 to 80 NTUs); when background is > 80 NTUs, turbidity should not increase more than 10%.

^f Turbidity - change from background for 24-h period is 8 NTU and 2 NTU for 30-day period; if background is 8-50 NTU then change from background is 5 NTU; if background > 50 NTU then change from background of 10%.

^g Fluoride - if hardness (as CaCO₃) is 10 mg/L the maximum concentration is 0.4 mg/L; otherwise $LC_{50} = -51.73 + 92.57 \log_{10}(\text{hardness}) * 0.01 \text{ mg/L}$.

^h Interim guideline.

ⁱ Sulphate – if hardness (as CaCO₃) is 0-30 mg/L the 30-day mean is 128 mg/L; if hardness 31-75 mg/L the 30-day mean is 218 mg/L; if hardness 76-180 mg/L the 30-day mean is 309 mg/L; if hardness 181-250 mg/L, the 30-day mean is 429 mg/L; if hardness >250 mg/L, site-specific guidelines apply.

^j Phosphorus trigger ranges: < 0.004 mg/L ultra-oligotrophic; 0.004-0.01 mg/L oligotrophic; 0.01-0.02 mg/L mesotrophic; 0.02-0.035 mg/L meso-eutrophic; 0.035-0.1 mg/L eutrophic; > 0.1 mg/L hyper-eutrophic.

^k Total organic carbon - the 30-day median ± 20% of the median background concentration.

^l Working guideline.

^m Cadmium – short-term: if hardness (as CaCO₃) is < 5.3 mg/L, cadmium benchmark is 0.00011 mg/L; if hardness 5.3-360 mg/L, cadmium benchmark = $10^{1.016[\log_{10}(\text{hardness})]-1.71} / 1,000 \text{ mg/L}$; if hardness >360 mg/L, benchmark = 0.0077 mg/L. Long-term: if hardness < 17 mg/L, benchmark = 0.00004 mg/L; if hardness 17-280 mg/L, benchmark = $10^{0.83[\log_{10}(\text{hardness})]-2.46} / 1000 \text{ mg/L}$; if hardness >280 mg/L, benchmark = 0.00037 mg/L.

Appendix A: Provincial and Federal Water Quality Guidelines for the Protection of Freshwater Aquatic Life

Notes (continued):

ⁿ Dissolved Copper - the BC ENV guideline is computed by the British Columbia Copper Biotic Ligand Model (BC BLM).

^o Copper – if hardness (as CaCO₃) is < 82 mg/L, copper guideline is 0.002 mg/L; if hardness 82-180 mg/L, copper guideline = $e^{0.8545[\ln(\text{hardness})]-1.465} * 0.0002$ mg/L; if hardness >180, copper guideline is 0.004 mg/L.

^p Lead - if hardness (as CaCO₃) is ≤ 8 mg/L the maximum concentration is 0.003 mg/L; if hardness is > 8 mg/L the maximum concentration is $e^{1.273\ln(\text{hardness})-1.460} / 1,000$ mg/L and the 30-day mean is $(3.31 + e^{1.273\ln(\text{mean}[\text{hardness})]-4.704}) / 1,000$ mg/L.

^q Lead – if hardness (as CaCO₃) is ≤60 mg/L or unknown, lead guideline is 0.001 mg/L; if hardness >60-180 mg/L, lead guideline = $e^{1.273[\ln(\text{hardness})]-4.705} / 1,000$ mg/L; if hardness >180, lead guideline is 0.007 mg/L.

^r Manganese - manganese concentration maximum = 0.01102(hardness)+0.54 mg/L and the 30-day mean concentration = 0.0044(hardness)+ 0.605 mg/L.

^s Nickel - if hardness (as CaCO₃) is 0-60 mg/L the 30-day mean concentration is 0.025 mg/L; if hardness 60-180 mg/L the 30-day mean concentration = $e^{(0.76 * \ln[\text{hardness}]+1.06)} / 1,000$ mg/L; if hardness >180 mg/L the 30-day mean concentration of 0.150 mg/L.

^t Nickel – if hardness (as CaCO₃) is ≤60mg/L or unknown, nickel guideline is 0.025 mg/L; if hardness >60-180 mg/L, nickel guideline = $e^{0.76[\ln(\text{hardness})]+1.06} / 1,000$ mg/L; if hardness >180 mg/L, nickel guideline is 0.150 mg/L.

^u Silver - if hardness is ≤ 100 mg/L the maximum concentration is 0.0001 mg/L and the 30-day mean is 0.00005 mg/L; if hardness > 100 mg/L the maximum concentration is 0.003 mg/L and the 30-day mean is 0.0015 mg/L.

^v Zinc - 30-day mean concentration = 7.5 + 0.75(hardness - 90)/1,000 mg/L; maximum zinc concentration = 33 + 0.75(hardness - 90)/1,000 mg/L.

^w Dissolved aluminum - if pH ≥ 6.5 the maximum concentration is 0.1 mg/L and the 30-day mean is 0.05 mg/L; if pH < 6.5 the maximum concentration is $e^{(1.209 - 2.426\text{pH} + 0.286)}$

^x Dissolved cadmium – if hardness (as CaCO₃) is < 7 mg/L, the maximum concentration = 0.000038 mg/L; if hardness ≥7, the maximum concentration = $e^{(1.03 * \ln[\text{hardness}]-5.274)} / 1,000$ mg/L. If hardness < 3.4 mg/L, the 30-day mean concentration = 0.0000176; if hardness ≥ 3.4, the 30-day mean concentration = $e^{(0.736 * \ln[\text{hardness}]-4.943)} / 1,000$ mg/L.

^y Nitrite - if chloride < 2 mg/L the maximum concentration is 0.06 mg/L and the 30-day mean is 0.02 mg/L; if chloride is 2 to 4 mg/L the maximum concentration is 0.12 mg/L and the 30-day mean is 0.04 mg/L; if chloride is 4 to 6 mg/L the maximum concentration is 0.06 mg/L and the 30-day mean is 0.18 mg/L; if chloride is 6 to 8 mg/L the maximum concentration is 0.24 mg/L and the 30-day mean is 0.08 mg/L; if chloride is 8 to 10 mg/L the maximum concentration is 0.30 mg/L and the 30-day mean is 0.10 mg/L; if chloride is > 10 mg/L the maximum concentration is 0.60 mg/L and the 30-day mean is 0.20 mg/L.

^z Dissolved Zinc - the long-term Canadian Water Quality Guideline (CWQG) considers hardness, pH and dissolved organic matter (DOC). CWQG = $e^{(0.947 * (\ln[\text{hardness}]) - 0.815 * [\text{pH}] + 0.398 * (\ln[\text{DOC}]) + 4.625)}$ where the CWQG is expressed in dissolved zinc concentration (µ/L).

^{aa} CCME Dissolved Manganese guideline long-term guideline is found in a look-up table with hardness and pH as the indices. The short-term guideline value = $e^{(0.878 * \ln[\text{hardness}]+4.76)} / 1,000$ mg/L.

APPENDIX B-1 STREAM WATER QUALITY DATA, BLACKWATER GOLD PROJECT, 2011 TO 2020

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Physical Tests								
					pH	Conductivity	Hardness (as CaCO ₃)	Hardness, Total (as CaCO ₃)	Total Dissolved	Total Suspended	Turbidity	Acidity (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)
					pH units	µS/cm	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L
L1989016-1	BI-09	Surface		9/7/2017	7.56	85.8	39.6	-	68.0	<3.0	0.170	3.60	46.1
L2049224-4	BI-09	Surface		1/23/2018	7.82	58.6	25.5	-	60.0	<3.0	0.500	1.90	28.5
L2062480-1	BI-09	Surface		2/27/2018	7.63	59.3	27.6	-	54.0	<3.0	0.910	2.00	30.3
L2073898-1	BI-09	Surface		3/27/2018	7.79	64.1	29.5	-	60.0	<3.0	0.290	1.50	32.8
L2081505-2	BI-09	Surface	Dup	4/16/2018	7.58	55.7	27.8	-	56.0	<3.0	1.24	2.70	31.3
L2081505-1	BI-09	Surface		4/16/2018	7.68	59.5	27.7	-	57.0	<3.0	1.19	2.30	31.0
L2096380-2	BI-09	Surface		5/15/2018	7.19	29.3	15.0	-	62.0	<3.0	1.20	2.60	12.6
L2102737-3	BI-09	Surface		5/28/2018	7.41	38.1	20.1	-	54.0	<3.0	1.58	2.00	20.8
L2132128-4	BI-09	Surface		7/17/2018	7.62	57.1	26.2	-	61.0	<3.0	0.340	2.20	29.5
L2144658-1	BI-09	Surface		8/8/2018	7.76	65.5	30.0	-	62.0	<3.0	0.260	2.30	35.5
L2163669-1	BI-09	Surface		9/11/2018	7.73	68.0	32.1	-	50.0	<3.0	0.210	2.20	36.4
L2187638-1	BI-09	Surface		10/24/2018	7.70	56.7	25.7	-	59.0	<3.0	0.460	2.10	29.2
L2204086-3	BI-09	Surface		11/28/2018	7.75	45.3	22.2	-	53.0	<3.0	1.18	2.20	22.4
L2213684-5	BI-09	Surface		12/19/2018	7.60	54.2	27.1	-	43.0	<3.0	0.600	1.90	27.3
L2227101-5	BI-09	Surface		1/29/2019	7.72	62.3	28.2	-	56.0	<3.0	0.560	2.40	31.4
L2233329-6	BI-09	Surface	Dup	2/13/2019	7.61	63.5	30.2	-	49.0	<3.0	0.320	2.40	31.9
L2233329-4	BI-09	Surface		2/13/2019	7.65	65.1	30.3	-	52.0	<3.0	0.290	2.40	32.4
L2245144-5	BI-09	Surface		3/14/2019	7.66	70.9	31.9	-	54.0	<3.0	0.250	1.70	33.8
L2256054-5	BI-09	Surface		4/9/2019	7.37	48.2	23.1	-	69.0	<3.0	1.59	3.30	23.5
L2282191-3	BI-09	Surface		5/28/2019	7.40	41.2	20.2	-	67.0	<3.0	0.690	2.30	20.8
L2285579-1	BI-09	Surface		6/3/2019	7.50	44.8	22.0	-	63.0	<3.0	0.680	2.20	20.7
L2313851-5	BI-09	Surface	Dup	7/18/2019	7.44	44.0	21.2	-	63.0	5.20	5.05	2.30	22.1
L2313851-1	BI-09	Surface		7/18/2019	7.37	44.5	21.1	-	60.0	6.00	4.50	2.30	22.6
L2329543-3	BI-09	Surface		8/13/2019	7.78	50.8	24.2	-	37.0	<3.0	0.890	2.40	24.8
L2350223-4	BI-09	Surface		9/17/2019	7.72	58.1	27.4	-	67.0	<3.0	0.490	2.10	28.3
L2371052-5	BI-09	Surface		10/22/2019	7.46	45.4	22.3	-	63.0	<3.0	1.00	2.60	23.0
L2378996-1	BI-09	Surface		11/5/2019	7.33	45.9	22.5	-	55.0	<3.0	1.01	3.00	21.2
VA19A0726-005	BI-09	Surface		12/16/2019	7.34	52.7	24.7	25.6	52.0	<3.0	1.18	2.30	26.1
VA20A2126-001	BI-09	Surface		2/19/2020	7.63	67.4	29.2	29.4	45.0	<3.0	0.480	2.30	33.6
VA20A7202-005	BI-09	Surface	Dup	5/26/2020	6.95	26.3	11.2	11.4	40.0	<3.0	0.960	3.10	10.4
VA20A7202-002	BI-09	Surface		5/26/2020	7.16	37.0	18.1	15.4	48.0	<3.0	0.990	2.50	16.0
VA20B2212-001	BI-09	Surface		8/6/2020	7.45	54.2	26.4	26.7	69.0	6.80	1.69	2.60	27.7
VA20C0197-002	BI-09	Surface		11/4/2020	7.29	39.6	20.1	20.4	61.0	<3.0	1.84	3.10	17.0
L1989016-2	BI-12	Surface		9/7/2017	7.72	59.9	27.4	-	51.0	<3.0	0.840	1.90	32.8
L1762266-1	BI-13	Surface		4/27/2016	7.29	34.0	16.3	-	42.0	<3.0	0.360	2.30	14.8
L1764648-4	BI-13	Surface		5/3/2016	7.48	31.1	14.3	-	34.0	<3.0	0.310	2.20	13.0
L1767107-1	BI-13	Surface		5/9/2016	7.58	37.9	16.0	-	32.0	<3.0	0.380	1.40	15.8
L1770672-2	BI-13	Surface		5/16/2016	7.63	39.5	17.4	-	35.0	<3.0	0.210	1.80	17.8
L1774541-4	BI-13	Surface	Dup	5/25/2016	7.67	41.3	18.8	-	38.0	<3.0	0.220	1.90	20.0
L1774541-6	BI-13	Surface		5/25/2016	7.41	40.5	19.0	-	46.0	<3.0	0.190	2.20	19.9
L1788643-4	BI-13	Surface		6/22/2016	7.64	36.0	16.2	-	48.0	<3.0	0.220	2.10	14.9
L1808945-4	BI-13	Surface		8/3/2016	7.73	62.3	26.5	-	52.0	<3.0	0.180	1.90	29.6
L1812856-4	BI-13	Surface	Dup	8/10/2016	5.64	<2.0	25.6	-	53.0	<3.0	0.200	2.30	29.0
L1812856-6	BI-13	Surface		8/10/2016	7.66	59.2	25.8	-	56.0	<3.0	0.220	1.70	29.1

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Physical Tests								
					pH	Conductivity	Hardness (as CaCO ₃)	Hardness, Total (as CaCO ₃)	Total Dissolved	Total Suspended	Turbidity	Acidity (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)
					pH units	µS/cm	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L
L1815654-4	BI-13	Surface		8/16/2016	7.68	64.1	28.9	-	52.0	<3.0	0.150	2.00	34.2
L1819041-7	BI-13	Surface		8/23/2016	7.50	50.0	23.0	-	60.0	<3.0	0.310	1.90	25.4
L1823224-7	BI-13	Surface		8/31/2016	7.51	54.0	24.7	-	48.0	<3.0	0.160	2.10	26.0
L1826303-1	BI-13	Surface		9/7/2016	7.43	43.5	19.3	-	46.0	<3.0	0.330	2.20	21.8
L1988832-6	BI-13	Surface		9/9/2017	8.03	81.6	36.0	-	60.0	<3.0	0.120	1.50	40.2
	WQ1	Surface		5/17/2011	6.30	27.0	9.80	10.2	44.0	< 2	0.900	-	4.00
	WQ1	Surface		5/24/2011	6.17	26.0	8.10	8.90	64.0	< 2	1.00	-	3.00
	WQ1	Surface		5/30/2011	6.52	24.0	6.50	7.00	52.0	5.00	1.30	-	4.00
	WQ1	Surface	Dup	6/6/2011	6.37	23.0	-	-	-	5.00	1.30	-	3.00
	WQ1	Surface		6/6/2011	6.37	17.0	< 6.0	< 6.0	52.0	< 2	1.10	-	3.00
	WQ1	Surface		6/13/2011	6.23	16.0	< 6.0	< 6.0	64.0	< 2	0.600	-	4.00
	WQ1	Surface		7/18/2011	6.49	25.0	6.40	6.50	76.0	< 2	0.600	-	6.00
	WQ1	Surface		8/15/2011	6.78	20.0	6.60	7.30	16.0	< 2	2.00	-	7.00
	WQ1	Surface		9/19/2011	6.80	23.0	7.90	8.10	20.0	< 2	1.40	-	8.00
	WQ1	Surface		10/17/2011	6.76	22.0	7.30	7.70	40.0	< 2	2.60	-	7.00
	WQ1	Surface		11/14/2011	6.71	22.0	7.90	8.00	40.0	5.00	5.90	-	8.00
	WQ1	Surface		5/15/2012	6.61	25.0	9.50	10.2	68.0	3.00	6.10	-	5.00
	WQ1	Surface		5/23/2012	6.73	26.0	8.70	9.10	56.0	< 2	3.10	-	5.00
	WQ1	Surface		5/28/2012	6.89	26.0	7.00	7.10	48.0	2.00	2.40	-	3.00
	WQ1	Surface		6/4/2012	6.78	18.0	< 6.0	6.30	44.0	< 2	3.30	-	4.00
	WQ1	Surface		6/11/2012	6.43	15.0	< 6.0	< 6.0	44.0	3.00	5.40	-	4.00
	WQ1	Surface		6/18/2012	6.45	19.0	< 6.0	< 6.0	27.0	< 2	2.60	-	4.00
	WQ1	Surface		7/16/2012	6.94	23.0	7.20	7.00	60.0	< 2	3.10	-	8.00
	WQ1	Surface		8/13/2012	6.98	36.0	11.7	12.1	76.0	5.00	10.0	-	13.0
	WQ1	Surface		9/17/2012	7.12	35.0	10.0	10.1	64.0	< 2	1.40	-	11.0
	WQ1	Surface		10/16/2012	7.04	33.0	10.0	11.0	24.0	< 2	1.20	-	11.0
	WQ1	Surface		11/12/2012	6.98	32.0	9.70	10.0	44.0	< 2	1.70	-	10.0
	WQ1	Surface		12/10/2012	6.89	33.0	10.5	10.6	32.0	< 2	1.00	-	11.0
	WQ1	Surface		5/14/2013	6.43	19.0	6.40	6.40	40.0	4.00	3.80	-	4.00
	WQ1	Surface	Dup	5/21/2013	6.40	20.0	-	-	64.0	< 2	1.50	-	7.00
	WQ1	Surface		5/21/2013	6.55	19.0	< 6.0	6.00	28.0	< 2	1.60	-	5.00
	WQ1	Surface		5/28/2013	6.53	16.0	6.70	6.60	24.0	< 2	1.90	-	3.00
	WQ1	Surface		6/4/2013	6.50	16.0	< 6.0	< 6.0	12.0	< 2	1.90	-	3.00
	WQ1	Surface		6/11/2013	6.66	18.0	< 6.0	< 6.0	40.0	< 2	1.20	-	4.00
	WQ1	Surface		6/18/2013	6.64	19.0	< 6.0	6.20	16.0	< 2	1.20	-	5.00
VA20A2211-005	WQ1	Surface	Dup	2/20/2020	7.22	31.3	10.8	11.0	38.0	<3.0	0.580	2.60	10.6
VA20A2211-001	WQ1	Surface		2/20/2020	7.24	31.1	10.5	11.1	38.0	<3.0	0.530	2.80	11.0
VA20A6810-001	WQ1	Surface		5/19/2020	6.43	15.5	6.26	6.30	45.0	<3.0	0.680	4.40	4.40
VA20B2212-002	WQ1	Surface		8/6/2020	7.00	25.1	9.73	9.74	40.0	3.20	0.780	2.40	9.10
VA20C1415-001	WQ1	Surface		11/19/2020	6.81	19.8	6.94	6.63	36.0	<3.0	0.380	4.00	6.50
	WQ10	Surface		3/30/2011	8.14	110	45.5	46.9	72.0	< 2	0.200	-	55.0
	WQ10	Surface		4/19/2011	8.10	108	46.3	48.4	60.0	< 2	0.100	-	54.0
	WQ10	Surface		5/17/2011	7.07	34.0	14.2	14.2	44.0	8.00	7.60	-	11.0
	WQ10	Surface		5/25/2011	7.00	30.0	11.6	12.5	76.0	4.00	4.10	-	8.00

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Physical Tests								
					pH	Conductivity	Hardness (as CaCO ₃)	Hardness, Total (as CaCO ₃)	Total Dissolved	Total Suspended	Turbidity	Acidity (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)
					pH units	µS/cm	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L
	WQ10	Surface		5/31/2011	6.85	27.0	10.1	10.8	44.0	5.00	3.00	-	7.00
	WQ10	Surface		6/7/2011	6.96	26.0	9.40	9.50	12.0	8.00	1.70	-	7.00
	WQ10	Surface		6/14/2011	6.98	26.0	10.1	10.3	36.0	< 2	1.10	-	9.00
	WQ10	Surface		7/19/2011	7.19	34.0	13.9	14.8	60.0	< 2	0.500	-	13.0
	WQ10	Surface		8/16/2011	7.53	55.0	22.6	24.5	32.0	2.00	1.00	-	26.0
	WQ10	Surface		9/20/2011	7.59	90.0	38.5	38.8	68.0	< 2	0.600	-	43.0
	WQ10	Surface		10/18/2011	7.42	65.0	27.7	29.1	36.0	< 2	1.20	-	30.0
	WQ10	Surface		11/15/2011	7.43	75.0	32.1	32.6	96.0	< 2	0.600	-	36.0
	WQ10	Surface		12/12/2011	7.51	91.0	39.1	40.1	80.0	< 2	0.900	-	43.0
	WQ10	Surface		1/12/2012	7.51	96.0	41.9	43.8	64.0	6.00	1.70	-	45.0
	WQ10	Surface		2/13/2012	7.83	106	45.8	45.9	60.0	< 2	0.400	-	51.0
	WQ10	Surface		3/12/2012	7.91	111	44.9	48.5	72.0	< 2	0.300	-	54.0
	WQ10	Surface		4/16/2012	7.80	95.0	43.5	43.6	76.0	< 2	2.00	-	47.0
	WQ10	Surface		5/14/2012	7.32	37.0	13.6	14.2	44.0	7.00	4.30	-	15.0
	WQ10	Surface		5/22/2012	7.15	33.0	12.7	13.7	44.0	3.00	1.50	-	12.0
	WQ10	Surface		5/29/2012	7.22	31.0	11.7	11.8	20.0	4.00	3.00	-	12.0
	WQ10	Surface		6/5/2012	7.16	29.0	11.3	11.7	40.0	3.00	2.30	-	13.0
	WQ10	Surface		6/12/2012	6.93	25.0	10.0	11.9	44.0	3.00	3.80	-	12.0
	WQ10	Surface		6/19/2012	7.33	31.0	12.3	12.3	44.0	< 2	1.80	-	14.0
	WQ10	Surface		7/17/2012	7.55	55.0	22.3	22.9	40.0	< 2	0.700	-	32.0
	WQ10	Surface		8/14/2012	7.71	69.0	31.0	31.0	60.0	< 2	0.400	-	34.0
	WQ10	Surface		9/18/2012	7.81	94.0	43.4	43.4	52.0	< 2	0.700	-	52.0
	WQ10	Surface		10/15/2012	7.80	99.0	42.6	44.3	56.0	< 2	0.400	-	50.0
	WQ10	Surface		11/13/2012	7.71	90.0	40.0	40.6	52.0	< 2	0.800	-	47.0
	WQ10	Surface		1/13/2013	7.71	115	53.5	54.2	60.0	< 2	0.500	-	59.0
	WQ10	Surface		2/12/2013	7.70	108	49.8	49.8	48.0	< 2	0.500	-	55.0
	WQ10	Surface		3/11/2013	7.81	111	53.3	53.9	60.0	< 2	0.800	-	58.0
	WQ10	Surface		4/15/2013	7.59	88.0	35.8	36.7	28.0	< 2	0.800	-	39.0
	WQ10	Surface		5/13/2013	6.85	29.0	12.0	12.0	44.0	7.00	3.10	-	9.00
	WQ10	Surface		5/22/2013	6.91	31.0	12.1	12.3	44.0	< 2	1.50	-	14.0
	WQ10	Surface		5/27/2013	7.10	29.0	13.6	13.6	72.0	2.00	1.70	-	10.0
	WQ10	Surface		6/6/2013	7.11	28.0	12.7	12.8	16.0	3.00	1.70	-	10.0
	WQ10	Surface		6/10/2013	7.16	32.0	14.4	14.6	48.0	< 2	1.80	-	13.0
	WQ10	Surface		6/17/2013	7.17	33.0	13.5	14.4	52.0	2.00	1.70	-	13.0
	WQ10	Surface		4/13/2014	7.69	101	45.3	-	48.0	<2	0.600	-	52.0
	WQ10	Surface		7/2/2014	7.32	53.0	25.1	-	48.0	<2	0.500	-	26.0
	WQ10	Surface	Dup	9/24/2014	7.82	123	59.6	-	72.0	<2	0.200	-	59.0
	WQ10	Surface		9/24/2014	7.81	121	59.1	-	8.00	<2	0.200	-	59.0
	WQ10	Surface		12/8/2014	7.65	108	49.8	-	52.0	<2	0.200	-	50.0
L1913006-3	WQ10	Surface		4/11/2017	7.90	99.1	44.4	-	75.0	<3.0	0.360	1.80	51.7
L1925486-1	WQ10	Surface		5/10/2017	7.18	32.5	15.3	-	61.0	<3.0	1.52	2.70	13.4
L1939712-10	WQ10	Surface		6/7/2017	7.29	30.0	13.0	-	40.0	<3.0	0.530	2.60	12.4
L1961670-2	WQ10	Surface		7/18/2017	7.70	68.9	29.8	-	53.0	<3.0	0.410	1.70	35.8
L1984944-10	WQ10	Surface	Dup	8/30/2017	7.84	111	49.6	-	84.0	<3.0	0.270	1.80	56.1

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LabID	Site	Depth	QAQC	Date	Physical Tests								
					pH	Conductivity	Hardness (as CaCO ₃)	Hardness, Total (as CaCO ₃)	Total Dissolved	Total Suspended	Turbidity	Acidity (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)
					pH units	µS/cm	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L
L1984944-1	WQ10	Surface		8/30/2017	7.96	113	49.5	-	87.0	<3.0	0.280	2.10	55.9
L1988832-1	WQ10	Surface		9/8/2017	7.91	101	46.3	-	77.0	<3.0	0.410	2.30	53.1
L2011329-2	WQ10	Surface		10/19/2017	7.51	53.6	24.2	-	52.0	<3.0	0.960	4.00	24.5
L2020946-1	WQ10	Surface		11/8/2017	7.60	53.0	21.2	-	46.0	<3.0	1.03	2.20	25.6
L2035356-4	WQ10	Surface		12/12/2017	7.73	59.0	28.9	-	64.0	<3.0	0.390	2.00	31.5
L2049678-2	WQ10	Surface		1/24/2018	7.98	81.9	37.0	-	68.0	<3.0	0.400	2.00	41.6
L2057025-2	WQ10	Surface		2/13/2018	7.70	86.0	38.5	-	68.0	<3.0	0.410	2.60	43.6
L2074294-8	WQ10	Surface	Dup	3/28/2018	8.06	98.3	44.3	-	72.0	<3.0	0.280	1.60	48.4
L2074294-3	WQ10	Surface		3/28/2018	8.07	99.5	39.8	-	70.0	3.60	0.320	1.50	48.2
L2081503-4	WQ10	Surface		4/17/2018	7.95	95.3	41.5	-	74.0	3.10	0.310	1.60	48.2
L2097084-3	WQ10	Surface		5/16/2018	7.14	20.7	8.77	-	42.0	21.7	2.66	2.70	6.80
L2103632-3	WQ10	Surface		5/29/2018	7.39	29.3	13.1	-	52.0	4.00	0.840	2.10	12.9
L2132986-2	WQ10	Surface		7/18/2018	7.81	69.4	30.3	-	55.0	<3.0	0.340	2.00	35.6
L2143640-6	WQ10	Surface		8/7/2018	7.83	76.2	33.4	-	66.0	<3.0	0.620	1.50	40.8
L2163669-2	WQ10	Surface		9/11/2018	7.93	88.8	40.5	-	61.0	<3.0	0.250	1.90	45.2
L2188218-1	WQ10	Surface		10/26/2018	7.65	63.6	28.1	-	67.0	<3.0	0.320	2.40	33.2
L2204508-3	WQ10	Surface		11/29/2018	7.51	50.9	22.9	-	52.0	<3.0	0.470	2.40	26.7
L2213246-1	WQ10	Surface		12/18/2018	7.79	60.1	29.4	-	59.0	<3.0	0.420	1.90	31.5
L2227701-1	WQ10	Surface		1/30/2019	7.79	79.0	34.0	-	75.0	<3.0	0.300	2.50	39.5
L2232050-6	WQ10	Surface		2/11/2019	7.73	91.0	36.8	-	73.0	<3.0	0.300	2.50	45.3
L2244756-1	WQ10	Surface		3/13/2019	7.84	104	44.1	-	71.0	<3.0	0.210	1.60	51.8
L2256053-5	WQ10	Surface	Dup	4/8/2019	7.69	78.2	33.6	-	66.0	<3.0	0.580	2.50	40.0
L2256053-1	WQ10	Surface		4/8/2019	7.70	78.7	32.7	-	61.0	<3.0	0.540	1.70	39.7
L2273497-1	WQ10	Surface		5/13/2019	7.08	29.2	13.3	-	49.0	18.8	1.06	2.90	11.3
L2285579-6	WQ10	Surface		6/3/2019	7.31	33.6	15.5	-	35.0	<3.0	0.490	2.50	15.7
L2312637-1	WQ10	Surface		7/16/2019	7.63	39.2	17.7	-	49.0	<3.0	0.490	2.20	18.7
L2326388-1	WQ10	Surface		8/8/2019	7.49	40.8	19.2	-	54.0	<3.0	0.710	2.30	21.3
L2350223-1	WQ10	Surface		9/17/2019	7.79	62.7	27.7	-	71.0	<3.0	0.380	2.00	32.1
L2372667-1	WQ10	Surface		10/23/2019	7.60	45.5	17.7	-	47.0	<3.0	0.590	2.80	23.8
L2383392-1	WQ10	Surface		11/14/2019	7.41	40.1	16.9	-	45.0	<3.0	0.820	2.30	18.3
VA19A0726-004	WQ10	Surface		12/16/2019	7.30	51.1	22.4	22.8	53.0	<3.0	0.760	2.30	25.1
VA20A0812-001	WQ10	Surface		1/23/2020	7.66	69.6	30.5	32.8	55.0	<3.0	0.320	2.70	36.4
VA20A1887-001	WQ10	Surface		2/13/2020	7.60	74.2	31.7	33.3	66.0	6.30	0.460	2.40	39.0
VA20A3516-001	WQ10	Surface		3/16/2020	7.68	89.0	35.2	39.2	70.0	<3.0	0.310	3.10	46.1
VA20A4369-001	WQ10	Surface		4/1/2020	7.70	94.9	40.6	40.8	71.0	<3.0	0.550	2.30	50.1
VA20A6218-001	WQ10	Surface		5/7/2020	7.06	29.8	14.2	14.4	49.0	<3.0	0.790	2.10	13.1
VA20A6356-002	WQ10	Surface		5/11/2020	7.06	27.0	12.8	12.9	47.0	<3.0	1.05	3.00	11.2
VA20A6810-003	WQ10	Surface		5/19/2020	6.91	24.4	11.2	11.0	43.0	3.20	0.970	3.20	9.80
VA20A7202-003	WQ10	Surface		5/26/2020	6.95	26.4	11.4	9.60	40.0	3.60	0.860	<2.0	10.3
VA20A7672-002	WQ10	Surface		6/2/2020	6.77	27.9	11.7	12.7	37.0	<3.0	0.550	2.40	13.0
VA20A9918-003	WQ10	Surface		7/6/2020	7.27	36.6	16.0	16.9	41.0	<3.0	0.640	2.10	17.4
VA20B2156-008	WQ10	Surface	Dup	8/5/2020	7.54	67.2	29.4	28.9	52.0	<3.0	0.380	2.50	32.6
VA20B2156-001	WQ10	Surface		8/5/2020	7.56	67.9	29.2	28.9	60.0	<3.0	0.380	2.10	32.8
VA20B2426-004	WQ10	Surface		8/10/2020	7.70	61.4	25.5	26.1	58.0	<3.0	0.790	2.50	29.0

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LabID	Site	Depth	QAQC	Date	Physical Tests								
					pH	Conductivity	Hardness (as CaCO ₃)	Hardness, Total (as CaCO ₃)	Total Dissolved	Total Suspended	Turbidity	Acidity (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)
					pH units	µS/cm	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L
VA20B3264-002	WQ10	Surface		8/19/2020	7.63	64.3	27.0	29.0	66.0	<3.0	0.390	<2.0	30.5
VA20B3609-001	WQ10	Surface		8/24/2020	7.55	61.0	28.3	26.9	57.0	<3.0	0.370	2.60	28.9
VA20B4313-001	WQ10	Surface		9/1/2020	7.62	66.6	28.1	27.7	52.0	<3.0	0.330	3.00	32.6
VA20B7624-004	WQ10	Surface		10/6/2020	7.68	72.9	31.8	30.2	63.0	<3.0	0.540	<2.0	34.3
VA20C0197-003	WQ10	Surface		11/4/2020	7.15	30.4	14.1	13.9	49.0	<3.0	2.06	3.40	13.3
	WQ11	Surface		3/30/2011	8.21	150	70.1	70.1	100	< 2	0.500	-	79.0
	WQ11	Surface		4/19/2011	8.12	118	55.1	55.3	68.0	< 2	0.300	-	60.0
	WQ11	Surface		5/17/2011	6.98	39.0	18.2	18.6	64.0	2.00	5.20	-	11.0
	WQ11	Surface		5/25/2011	6.89	33.0	14.7	16.1	72.0	9.00	3.40	-	8.00
	WQ11	Surface		5/31/2011	6.79	30.0	13.2	14.2	52.0	< 2	2.00	-	8.00
	WQ11	Surface		6/6/2011	6.93	29.0	12.5	13.0	16.0	17.0	2.40	-	8.00
	WQ11	Surface		6/13/2011	7.06	33.0	14.9	15.2	56.0	< 2	1.20	-	11.0
	WQ11	Surface		7/18/2011	7.09	37.0	18.0	18.5	84.0	< 2	1.10	-	14.0
	WQ11	Surface		8/15/2011	7.49	60.0	27.1	30.0	36.0	< 2	1.40	-	29.0
	WQ11	Surface		9/19/2011	7.63	109	49.4	49.8	104	< 2	0.700	-	53.0
	WQ11	Surface		10/17/2011	7.43	72.0	33.8	35.4	60.0	< 2	1.10	-	34.0
	WQ11	Surface		11/14/2011	7.46	85.0	38.6	39.0	108	< 2	0.900	-	41.0
	WQ11	Surface		12/12/2011	7.54	109	49.6	51.7	100	< 2	1.20	-	53.0
	WQ11	Surface		5/15/2012	7.19	38.0	15.9	16.9	80.0	< 2	1.70	-	14.0
	WQ11	Surface		5/22/2012	7.05	33.0	14.3	15.1	60.0	< 2	1.50	-	11.0
	WQ11	Surface		5/28/2012	6.94	31.0	12.7	12.8	48.0	< 2	3.40	-	10.0
	WQ11	Surface		6/4/2012	7.17	32.0	14.2	14.7	60.0	< 2	1.30	-	11.0
	WQ11	Surface		6/11/2012	7.06	34.0	15.6	16.2	60.0	< 2	1.10	-	13.0
	WQ11	Surface		6/18/2012	7.42	40.0	17.6	18.2	56.0	< 2	1.40	-	20.0
	WQ11	Surface		7/16/2012	7.61	64.0	29.2	29.5	40.0	< 2	0.600	-	36.0
	WQ11	Surface		8/13/2012	7.68	68.0	32.0	32.0	68.0	< 2	1.00	-	33.0
	WQ11	Surface		9/17/2012	7.82	108	51.8	52.3	84.0	< 2	0.700	-	59.0
	WQ11	Surface		10/15/2012	7.92	133	64.6	66.9	64.0	< 2	0.400	-	71.0
	WQ11	Surface		11/13/2012	7.80	108	49.6	51.2	68.0	< 2	0.900	-	57.0
	WQ11	Surface		1/13/2013	7.70	155	77.0	78.4	80.0	< 2	0.800	-	86.0
	WQ11	Surface		2/12/2013	7.83	159	84.3	84.3	84.0	< 2	0.600	-	86.0
	WQ11	Surface		4/15/2013	7.43	70.0	30.4	33.0	68.0	< 2	3.20	-	31.0
	WQ11	Surface		5/13/2013	6.84	29.0	13.8	13.8	64.0	< 2	2.30	-	9.00
	WQ11	Surface		5/22/2013	7.01	34.0	15.1	15.1	92.0	< 2	1.80	-	15.0
	WQ11	Surface		5/27/2013	7.16	35.0	18.3	18.3	96.0	< 2	1.50	-	11.0
	WQ11	Surface		6/6/2013	7.14	34.0	18.4	18.4	48.0	< 2	1.60	-	12.0
	WQ11	Surface		6/10/2013	7.25	39.0	20.3	21.2	48.0	< 2	2.40	-	16.0
	WQ11	Surface		6/17/2013	7.22	39.0	18.6	19.9	84.0	< 2	2.40	-	15.0
L1762266-2	WQ11	Surface		4/27/2016	7.07	32.3	17.9	-	72.0	<3.0	1.36	3.70	11.7
L1764648-1	WQ11	Surface		5/3/2016	7.36	37.9	19.0	-	66.0	<3.0	1.07	3.50	14.4
L1767107-6	WQ11	Surface	Dup	5/9/2016	7.43	41.6	20.4	-	65.0	<3.0	0.960	2.30	19.6
L1767107-2	WQ11	Surface		5/9/2016	7.47	42.2	20.4	-	61.0	<3.0	1.18	2.30	20.0
L1770672-5	WQ11	Surface	Dup	5/16/2016	7.56	49.4	23.7	-	61.0	<3.0	0.820	2.30	25.1
L1770672-1	WQ11	Surface		5/16/2016	7.67	49.7	23.9	-	67.0	<3.0	0.760	2.30	25.3

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Physical Tests								
					pH	Conductivity	Hardness (as CaCO ₃)	Hardness, Total (as CaCO ₃)	Total Dissolved	Total Suspended	Turbidity	Acidity (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)
					pH units	µS/cm	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L
L1774541-1	WQ11	Surface		5/25/2016	7.76	57.5	28.0	-	62.0	<3.0	0.560	2.00	28.7
L1788643-1	WQ11	Surface		6/22/2016	7.77	41.0	19.3	-	76.0	<3.0	1.15	2.30	15.7
L1808945-1	WQ11	Surface		8/3/2016	7.60	63.5	27.9	-	65.0	<3.0	0.630	2.60	29.9
L1812856-1	WQ11	Surface		8/10/2016	7.72	66.7	29.6	-	88.0	<3.0	0.540	2.00	31.5
L1815654-1	WQ11	Surface		8/16/2016	7.68	76.0	35.9	-	76.0	<3.0	0.370	4.10	41.5
L1819041-6	WQ11	Surface		8/23/2016	7.59	68.6	33.5	-	89.0	<3.0	0.520	2.20	36.0
L1823224-4	WQ11	Surface		8/31/2016	7.60	75.9	36.9	-	77.0	<3.0	0.410	2.60	37.6
L1826303-3	WQ11	Surface		9/7/2016	7.53	64.4	29.7	-	90.0	<3.0	0.640	2.60	34.4
	WQ12	Surface		4/19/2011	7.79	58.0	24.3	24.7	36.0	< 2	0.500	-	28.0
	WQ12	Surface		5/17/2011	7.14	33.0	14.5	14.6	40.0	8.00	6.80	-	11.0
	WQ12	Surface		5/24/2011	7.13	32.0	13.2	14.3	68.0	< 2	1.60	-	9.00
	WQ12	Surface		5/30/2011	7.01	29.0	11.9	12.9	44.0	< 2	1.10	-	9.00
	WQ12	Surface		6/6/2011	7.17	41.0	12.7	12.6	24.0	2.00	1.00	-	10.0
	WQ12	Surface		6/13/2011	7.26	35.0	14.6	15.0	32.0	< 2	1.00	-	14.0
	WQ12	Surface		7/18/2011	7.18	36.0	15.7	16.5	52.0	< 2	0.800	-	15.0
	WQ12	Surface		8/15/2011	7.41	42.0	17.5	19.1	24.0	< 2	1.30	-	18.0
	WQ12	Surface		9/19/2011	7.26	49.0	21.0	21.3	76.0	< 2	1.10	-	24.0
	WQ12	Surface		10/17/2011	7.19	43.0	19.2	20.0	24.0	< 2	1.00	-	21.0
	WQ12	Surface		11/14/2011	7.09	45.0	18.9	19.1	60.0	< 2	0.700	-	20.0
	WQ12	Surface		12/12/2011	7.18	53.0	22.8	23.4	48.0	< 2	2.70	-	24.0
	WQ12	Surface		1/12/2012	7.10	48.0	21.8	23.1	40.0	< 2	0.800	-	23.0
	WQ12	Surface		2/13/2012	7.49	54.0	23.0	23.4	52.0	< 2	1.00	-	26.0
	WQ12	Surface	Dup	3/12/2012	7.57	52.0	-	-	-	< 2	1.20	-	25.0
	WQ12	Surface		3/12/2012	7.60	53.0	21.8	24.0	40.0	6.00	1.80	-	25.0
	WQ12	Surface		4/16/2012	7.45	49.0	22.9	22.9	44.0	< 2	7.10	-	25.0
	WQ12	Surface		5/15/2012	7.22	31.0	13.4	14.5	48.0	4.00	2.50	-	14.0
	WQ12	Surface		5/22/2012	7.14	32.0	12.9	13.9	60.0	< 2	0.900	-	13.0
	WQ12	Surface		5/28/2012	7.33	37.0	14.7	14.7	20.0	< 2	2.70	-	13.0
	WQ12	Surface		6/4/2012	7.37	37.0	15.0	15.6	52.0	< 2	1.60	-	18.0
	WQ12	Surface		6/11/2012	7.08	36.0	15.1	15.6	40.0	< 2	1.10	-	23.0
	WQ12	Surface		6/18/2012	7.45	38.0	15.7	15.9	36.0	< 2	1.00	-	18.0
	WQ12	Surface		7/16/2012	7.46	45.0	18.8	19.3	92.0	< 2	0.800	-	26.0
	WQ12	Surface		8/13/2012	7.58	54.0	24.0	24.0	44.0	< 2	1.30	-	27.0
	WQ12	Surface		9/17/2012	7.54	61.0	26.8	26.8	48.0	< 2	1.10	-	39.0
	WQ12	Surface		10/15/2012	7.58	66.0	27.9	29.1	40.0	< 2	1.10	-	34.0
	WQ12	Surface		11/13/2012	7.44	53.0	23.6	23.6	8.00	< 2	0.800	-	28.0
	WQ12	Surface		1/13/2013	7.07	52.0	23.4	23.4	68.0	< 2	1.10	-	26.0
	WQ12	Surface		2/12/2013	7.24	53.0	23.0	23.0	36.0	< 2	0.900	-	26.0
	WQ12	Surface		3/11/2013	7.34	53.0	25.0	25.0	20.0	< 2	1.90	-	29.0
	WQ12	Surface		4/15/2013	7.17	46.0	18.3	19.5	28.0	< 2	1.00	-	18.0
	WQ12	Surface		5/13/2013	7.13	35.0	15.9	15.9	52.0	< 2	1.30	-	14.0
	WQ12	Surface		5/22/2013	7.22	35.0	14.3	15.0	124	< 2	1.00	-	17.0
	WQ12	Surface		5/27/2013	7.33	32.0	17.5	17.5	64.0	< 2	0.800	-	12.0
	WQ12	Surface		6/6/2013	7.24	34.0	16.1	16.2	16.0	< 2	0.900	-	13.0

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Physical Tests								
					pH	Conductivity	Hardness (as CaCO ₃)	Hardness, Total (as CaCO ₃)	Total Dissolved	Total Suspended	Turbidity	Acidity (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)
					pH units	µS/cm	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L
	WQ12	Surface		6/10/2013	7.23	36.0	17.5	17.8	40.0	< 2	1.60	-	15.0
	WQ12	Surface		6/17/2013	7.20	35.0	15.8	16.8	64.0	< 2	2.20	-	14.0
	WQ13	Surface		4/19/2011	8.22	157	77.0	78.4	80.0	4.00	1.60	-	79.0
	WQ13	Surface		5/17/2011	7.73	106	49.3	49.2	56.0	2.00	4.00	-	48.0
	WQ13	Surface		5/24/2011	7.88	107	49.5	52.2	100	4.00	3.30	-	49.0
	WQ13	Surface		5/30/2011	7.78	110	50.0	52.8	104	2.00	2.40	-	48.0
	WQ13	Surface		6/6/2011	7.77	107	49.9	50.2	104	40.0	4.90	-	49.0
	WQ13	Surface		6/13/2011	7.75	113	50.6	52.1	76.0	4.00	1.60	-	52.0
	WQ13	Surface		7/18/2011	7.69	110	50.3	53.5	108	4.00	1.50	-	50.0
	WQ13	Surface		8/15/2011	7.88	130	59.2	61.9	72.0	2.00	1.50	-	63.0
	WQ13	Surface		9/19/2011	7.68	140	64.9	65.6	160	2.00	2.10	-	68.0
	WQ13	Surface		10/17/2011	7.61	133	63.8	65.1	16.0	< 2	1.60	-	63.0
	WQ13	Surface		11/14/2011	7.55	144	65.5	66.5	136	4.00	1.60	-	69.0
	WQ13	Surface		12/13/2011	7.63	149	70.8	70.8	100	< 2	1.60	-	71.0
	WQ13	Surface		1/12/2012	7.54	159	74.6	78.4	104	< 2	0.900	-	75.0
	WQ13	Surface		2/13/2012	7.88	156	73.1	73.0	112	< 2	1.20	-	75.0
	WQ13	Surface		3/12/2012	8.07	153	67.4	77.1	100	3.00	1.90	-	75.0
	WQ13	Surface		4/16/2012	7.99	134	65.6	65.5	84.0	6.00	2.20	-	65.0
	WQ13	Surface		5/15/2012	7.90	121	51.0	53.8	92.0	12.0	3.20	-	60.0
	WQ13	Surface		5/22/2012	7.83	112	48.9	52.6	88.0	9.00	1.20	-	53.0
	WQ13	Surface		5/28/2012	7.93	109	51.2	51.2	60.0	7.00	3.60	-	50.0
	WQ13	Surface		6/4/2012	7.96	121	52.3	64.8	72.0	7.00	3.20	-	61.0
	WQ13	Surface	Dup	6/11/2012	7.78	119	-	-	-	7.00	2.80	-	63.0
	WQ13	Surface		6/11/2012	7.78	120	52.1	53.8	92.0	8.00	2.60	-	65.0
	WQ13	Surface		6/18/2012	8.01	127	54.2	56.2	76.0	6.00	3.20	-	63.0
	WQ13	Surface		7/16/2012	7.98	131	60.8	63.0	100	3.00	1.60	-	72.0
	WQ13	Surface		8/13/2012	8.02	138	68.8	68.8	108	< 2	1.10	-	69.0
	WQ13	Surface		9/17/2012	7.88	140	70.5	70.5	60.0	< 2	1.30	-	69.0
	WQ13	Surface		10/15/2012	7.90	145	69.8	73.8	8.00	< 2	1.20	-	75.0
	WQ13	Surface		11/12/2012	7.83	142	66.4	68.6	88.0	< 2	1.90	-	75.0
	WQ13	Surface		1/15/2013	7.68	157	79.7	80.0	116	7.00	5.80	-	81.0
	WQ13	Surface		5/14/2013	7.69	106	52.1	52.1	96.0	8.00	3.00	-	54.0
	WQ13	Surface		5/22/2013	7.77	39.0	15.9	16.7	96.0	4.00	2.00	-	56.0
	WQ13	Surface		5/28/2013	7.85	104	58.0	58.0	16.0	7.00	1.90	-	50.0
	WQ13	Surface		6/4/2013	7.84	115	55.6	56.0	20.0	7.00	2.30	-	56.0
	WQ13	Surface		6/10/2013	7.81	162	60.5	61.2	128	7.00	2.30	-	58.0
	WQ13	Surface		6/18/2013	7.74	118	52.0	56.9	64.0	4.00	1.80	-	54.0
L1913531-4	WQ13	Surface	Dup	4/12/2017	7.98	124	61.4	-	95.0	6.30	2.74	1.10	64.8
L1913531-2	WQ13	Surface		4/12/2017	7.94	123	56.0	-	106	4.90	2.06	2.00	64.9
L1926080-1	WQ13	Surface		5/11/2017	7.78	118	56.7	-	92.0	8.60	2.56	2.30	55.3
L1939712-11	WQ13	Surface		6/7/2017	8.12	120	57.6	-	100	<3.0	1.34	1.30	59.4
L1964508-2	WQ13	Surface		7/24/2017	8.00	138	66.5	-	102	<3.0	0.810	1.10	71.6
L1984944-8	WQ13	Surface		8/30/2017	8.07	147	68.0	-	103	<3.0	1.10	1.80	75.6
L1988832-7	WQ13	Surface		9/9/2017	8.10	144	69.0	-	93.0	<3.0	1.01	1.40	73.5

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LabID	Site	Depth	QAQC	Date	Physical Tests								
					pH	Conductivity	Hardness (as CaCO ₃)	Hardness, Total (as CaCO ₃)	Total Dissolved	Total Suspended	Turbidity	Acidity (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)
					pH units	µS/cm	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L
L2009845-1	WQ13	Surface		10/17/2017	8.13	133	61.1	-	91.0	7.40	1.73	1.70	65.2
L2020333-1	WQ13	Surface		11/7/2017	7.91	124	59.1	-	73.0	4.10	2.16	2.30	65.0
L2034610-4	WQ13	Surface		12/11/2017	7.85	135	63.5	-	101	<3.0	1.05	2.30	73.1
L2049224-3	WQ13	Surface		1/23/2018	8.19	151	75.2	-	92.0	3.30	1.35	<1.0	73.2
L2060442-3	WQ13	Surface		2/23/2018	8.05	148	77.2	-	98.0	<3.0	0.910	1.50	76.2
L2074294-7	WQ13	Surface		3/28/2018	8.11	154	73.4	-	107	9.60	1.84	1.60	76.3
L2081505-5	WQ13	Surface		4/16/2018	7.95	149	74.6	-	95.0	3.10	1.06	2.30	79.9
L2097084-4	WQ13	Surface		5/16/2018	7.97	103	48.2	-	88.0	3.70	2.02	1.40	50.7
L2104479-4	WQ13	Surface		5/30/2018	7.99	118	56.5	-	108	4.50	1.56	2.00	59.0
L2132986-1	WQ13	Surface		7/18/2018	8.12	129	61.0	-	117	<3.0	1.06	1.20	67.8
L2144782-5	WQ13	Surface		8/9/2018	8.09	136	64.0	-	92.0	3.60	1.68	1.00	68.5
L2164448-1	WQ13	Surface		9/12/2018	8.12	134	68.3	-	100	<3.0	0.850	<1.0	70.1
L2188218-5	WQ13	Surface		10/26/2018	8.24	132	64.7	-	114	34.4	63.1	<1.0	68.5
L2203408-5	WQ13	Surface		11/27/2018	7.94	131	56.0	-	93.0	<3.0	1.40	1.80	63.6
L2213684-4	WQ13	Surface		12/19/2018	7.98	133	63.0	-	82.0	<3.0	0.880	1.40	68.1
L2227101-4	WQ13	Surface		1/29/2019	8.08	146	70.8	-	103	<3.0	0.580	1.00	74.1
L2232050-7	WQ13	Surface		2/11/2019	7.79	147	68.5	-	108	3.50	1.15	3.00	73.8
L2245144-2	WQ13	Surface		3/14/2019	8.04	151	72.0	-	105	<3.0	0.520	1.40	72.8
L2256054-4	WQ13	Surface		4/9/2019	7.86	127	58.3	-	92.0	3.50	1.47	2.00	61.8
L2274397-3	WQ13	Surface		5/14/2019	7.93	109	53.2	-	92.0	6.40	2.48	2.00	56.7
L2286702-4	WQ13	Surface		6/4/2019	8.08	125	58.7	-	96.0	12.8	1.96	1.40	62.3
L2312637-2	WQ13	Surface		7/16/2019	8.15	123	60.6	-	103	<3.0	1.27	<1.0	63.6
L2326388-5	WQ13	Surface		8/8/2019	8.04	126	60.1	-	92.0	4.60	1.08	1.30	61.9
L2349445-4	WQ13	Surface		9/16/2019	8.02	136	62.7	-	108	<3.0	1.11	1.70	69.1
L2372667-4	WQ13	Surface		10/23/2019	7.96	123	54.0	-	85.0	<3.0	1.09	2.20	64.7
L2388381-4	WQ13	Surface		11/25/2019	7.89	125	58.4	-	84.0	<3.0	1.12	2.20	64.6
VA19A0791-005	WQ13	Surface	Dup	12/17/2019	7.88	136	64.5	-	94.0	<3.0	0.680	2.00	66.9
VA19A0791-004	WQ13	Surface		12/17/2019	7.86	135	64.7	-	96.0	<3.0	0.680	2.00	67.4
VA20A0960-004	WQ13	Surface		1/27/2020	7.94	146	70.0	66.6	97.0	<3.0	0.630	2.40	69.6
VA20A2126-003	WQ13	Surface		2/19/2020	7.94	148	63.9	71.2	96.0	<3.0	0.640	<2.0	75.5
VA20A3691-001	WQ13	Surface		3/18/2020	8.02	147	68.9	71.6	97.0	<3.0	1.08	3.00	78.8
VA20A4555-005	WQ13	Surface		4/7/2020	7.81	145	74.0	76.5	108	6.20	3.13	<2.0	76.3
VA20A6218-004	WQ13	Surface		5/7/2020	7.70	115	56.7	54.9	95.0	3.80	1.07	<2.0	53.7
VA20A6356-003	WQ13	Surface		5/11/2020	7.80	108	53.1	51.3	86.0	<3.0	1.88	<2.0	50.9
VA20A6869-003	WQ13	Surface		5/20/2020	7.79	104	50.1	47.5	88.0	6.20	1.45	2.00	53.3
VA20A7367-003	WQ13	Surface		5/28/2020	7.72	117	50.5	56.0	89.0	5.60	1.48	<2.0	61.7
VA20A7797-003	WQ13	Surface		6/3/2020	7.80	116	56.4	56.3	89.0	5.80	1.26	<2.0	60.8
VA20B0021-003	WQ13	Surface		7/7/2020	7.84	116	55.7	55.6	97.0	3.60	1.06	<2.0	55.3
VA20B2156-003	WQ13	Surface		8/5/2020	8.31	132	66.3	61.6	90.0	4.60	1.18	<2.0	64.0
VA20B2542-004	WQ13	Surface		8/11/2020	8.14	133	63.2	65.7	104	4.70	1.02	<2.0	63.9
VA20B3218-002	WQ13	Surface		8/18/2020	8.04	132	62.4	67.6	104	<3.0	1.38	<2.0	62.8
VA20B3860-003	WQ13	Surface		8/26/2020	8.21	131	65.0	65.4	109	<3.0	1.56	<2.0	65.1
VA20B4313-003	WQ13	Surface		9/1/2020	7.97	136	63.5	62.4	96.0	4.40	0.780	<2.0	63.9
VA20B7828-003	WQ13	Surface		10/8/2020	8.00	134	66.9	60.6	97.0	<3.0	0.810	<2.0	67.2

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Physical Tests								
					pH	Conductivity	Hardness (as CaCO ₃)	Hardness, Total (as CaCO ₃)	Total Dissolved	Total Suspended	Turbidity	Acidity (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)
					pH units	µS/cm	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L
VA20C1281-002	WQ13	Surface	Dup	11/18/2020	7.88	126	57.4	62.9	91.0	7.10	2.10	2.70	60.8
VA20C1281-001	WQ13	Surface		11/18/2020	7.86	126	60.7	63.2	91.0	3.10	1.48	3.20	61.4
	WQ14	Surface		5/24/2011	7.49	75.0	35.6	37.7	180	< 2	< 0.1	-	32.0
	WQ14	Surface		5/30/2011	7.49	80.0	37.6	39.8	128	< 2	0.700	-	35.0
	WQ14	Surface		6/6/2011	7.66	96.0	45.3	45.7	44.0	7.00	1.30	-	43.0
	WQ14	Surface		6/13/2011	7.68	114	52.2	53.1	180	< 2	1.10	-	54.0
	WQ14	Surface	Dup	7/18/2011	7.73	126	-	-	-	3.00	1.30	-	61.0
	WQ14	Surface		7/18/2011	7.75	126	59.3	66.5	128	29.0	1.90	-	62.0
	WQ14	Surface		8/15/2011	8.01	175	82.4	85.3	88.0	4.00	3.00	-	89.0
	WQ14	Surface		9/19/2011	7.85	194	91.6	93.8	128	< 2	1.70	-	99.0
	WQ14	Surface		10/17/2011	7.77	170	82.5	82.6	124	< 2	1.60	-	83.0
	WQ14	Surface	Dup	11/14/2011	7.60	182	-	-	-	2.00	1.10	-	88.0
	WQ14	Surface		11/14/2011	7.58	181	85.7	85.7	148	2.00	1.10	-	88.0
	WQ14	Surface		12/13/2011	7.55	214	103	103	124	2.00	2.40	-	105
	WQ14	Surface	Dup	1/12/2012	7.59	150	-	-	-	5.00	1.50	-	71.0
	WQ14	Surface		1/12/2012	7.44	207	102	104	128	3.00	3.00	-	102
	WQ14	Surface		4/17/2012	7.99	154	74.3	75.4	104	2.00	2.10	-	75.0
	WQ14	Surface		5/23/2012	7.83	104	46.6	47.3	80.0	2.00	2.30	-	50.0
	WQ14	Surface		5/28/2012	7.89	102	45.4	45.7	52.0	< 2	1.10	-	48.0
	WQ14	Surface	Dup	6/4/2012	7.93	111	-	-	-	< 2	1.80	-	56.0
	WQ14	Surface		6/4/2012	7.91	111	48.1	50.1	92.0	< 2	3.50	-	56.0
	WQ14	Surface		6/11/2012	7.79	121	55.3	56.7	100	< 2	0.900	-	66.0
	WQ14	Surface		6/18/2012	8.06	139	60.0	62.2	76.0	< 2	1.50	-	72.0
	WQ14	Surface		7/16/2012	8.11	170	82.4	85.5	108	< 2	1.30	-	99.0
	WQ14	Surface		8/13/2012	8.17	183	94.7	94.7	128	< 2	1.40	-	98.0
	WQ14	Surface		9/17/2012	7.99	188	96.3	96.3	176	< 2	1.40	-	100
	WQ14	Surface		10/16/2012	8.10	185	91.4	95.6	96.0	< 2	1.00	-	99.0
	WQ14	Surface		11/12/2012	8.02	198	95.4	99.4	112	< 2	1.10	-	109
	WQ14	Surface		12/10/2012	7.79	212	119	119	124	3.00	1.90	-	115
	WQ14	Surface		4/16/2013	7.81	161	72.2	75.3	108	< 2	1.20	-	76.0
	WQ14	Surface	Dup	5/14/2013	7.54	90.0	-	-	64.0	< 2	1.20	-	48.0
	WQ14	Surface		5/14/2013	7.55	90.0	45.9	45.9	68.0	4.00	1.20	-	47.0
	WQ14	Surface		5/21/2013	7.59	107	49.8	52.1	164	< 2	0.900	-	62.0
	WQ14	Surface		5/28/2013	7.81	102	60.3	60.3	88.0	< 2	0.900	-	50.0
	WQ14	Surface		6/4/2013	7.70	105	52.1	52.7	40.0	< 2	1.00	-	52.0
	WQ14	Surface	Dup	6/11/2013	7.73	123	-	-	104	< 2	1.20	-	59.0
	WQ14	Surface		6/11/2013	7.74	125	62.2	63.8	112	< 2	1.40	-	58.0
	WQ14	Surface		6/18/2013	7.70	122	571	615	104	< 2	1.50	-	59.0
	WQ15	Surface		9/24/2012	7.43	54.0	23.7	24.6	40.0	3.00	2.60	-	26.0
	WQ15	Surface		10/15/2012	7.39	57.0	23.3	24.8	36.0	3.00	2.00	-	27.0
	WQ15	Surface		11/13/2012	7.44	52.0	24.2	24.2	108	< 2	1.00	-	27.0
	WQ15	Surface		1/13/2013	7.26	60.0	28.5	28.5	68.0	< 2	1.10	-	28.0
	WQ15	Surface		2/12/2013	7.33	57.0	26.0	26.0	44.0	2.00	1.30	-	27.0
	WQ15	Surface		3/11/2013	7.38	54.0	27.5	27.5	28.0	< 2	0.900	-	30.0

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Physical Tests								
					pH	Conductivity	Hardness (as CaCO ₃)	Hardness, Total (as CaCO ₃)	Total Dissolved	Total Suspended	Turbidity	Acidity (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)
					pH units	µS/cm	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L
	WQ15	Surface		4/15/2013	7.34	53.0	21.8	23.2	32.0	< 2	0.700	-	23.0
	WQ15	Surface		5/13/2013	7.16	43.0	19.7	19.7	24.0	3.00	1.80	-	21.0
	WQ15	Surface		5/22/2013	7.25	118	52.8	55.8	244	5.00	2.40	-	17.0
	WQ15	Surface		5/27/2013	7.42	40.0	22.3	22.3	96.0	2.00	1.40	-	17.0
	WQ15	Surface		6/6/2013	7.28	39.0	19.1	19.4	24.0	< 2	1.10	-	16.0
	WQ15	Surface		6/10/2013	7.25	41.0	20.0	20.2	76.0	< 2	2.10	-	16.0
	WQ15	Surface		6/17/2013	7.22	40.0	18.0	19.3	68.0	3.00	2.40	-	16.0
	WQ15	Surface		4/13/2014	7.22	55.0	25.6	-	80.0	<2	0.400	-	27.0
	WQ15	Surface		7/2/2014	7.13	44.0	22.2	-	76.0	<2	0.900	-	18.0
	WQ15	Surface		9/24/2014	7.34	65.0	29.7	-	64.0	6.00	2.50	-	30.0
	WQ15	Surface		12/8/2014	7.42	59.0	26.0	-	36.0	<2	0.400	-	27.0
	WQ16	Surface		9/24/2012	7.30	47.0	18.7	19.3	36.0	4.00	3.60	-	23.0
	WQ16	Surface		10/15/2012	7.38	46.0	17.6	18.7	< 4	13.0	2.90	-	23.0
	WQ16	Surface		11/13/2012	7.46	48.0	20.6	20.6	40.0	< 2	0.800	-	25.0
	WQ16	Surface		1/13/2013	7.25	52.0	22.3	22.5	56.0	2.00	1.20	-	24.0
	WQ16	Surface		2/12/2013	7.28	52.0	24.8	24.8	16.0	< 2	1.20	-	25.0
	WQ16	Surface		3/11/2013	7.31	49.0	23.6	23.8	40.0	25.0	9.80	-	27.0
	WQ16	Surface		4/15/2013	7.30	50.0	19.3	20.2	32.0	< 2	0.700	-	22.0
	WQ16	Surface		5/13/2013	7.11	43.0	18.4	18.4	36.0	2.00	1.70	-	21.0
	WQ16	Surface		5/22/2013	7.14	44.0	18.3	19.3	188	< 2	1.50	-	25.0
	WQ16	Surface		5/27/2013	7.50	41.0	21.3	21.3	92.0	3.00	1.30	-	18.0
	WQ16	Surface		6/6/2013	7.35	40.0	17.5	18.0	24.0	3.00	1.10	-	17.0
	WQ16	Surface		6/10/2013	7.34	42.0	18.3	19.2	28.0	6.00	2.00	-	18.0
	WQ16	Surface		6/17/2013	7.30	41.0	16.5	17.7	68.0	< 2	1.50	-	17.0
	WQ16	Surface		4/13/2014	7.21	48.0	20.7	-	80.0	<2	0.600	-	29.0
	WQ16	Surface		7/2/2014	7.21	43.0	19.6	-	52.0	<2	0.700	-	18.0
	WQ16	Surface		9/24/2014	7.23	46.0	18.6	-	36.0	2.00	1.50	-	21.0
	WQ16	Surface		12/8/2014	7.26	51.0	21.8	-	12.0	<2	<0.1	-	23.0
	WQ17	Surface		12/12/2011	7.30	72.0	29.9	31.0	68.0	< 2	0.600	-	33.0
	WQ17	Surface		3/12/2012	7.80	88.0	33.8	36.9	48.0	< 2	0.400	-	42.0
	WQ17	Surface	Dup	6/18/2012	7.29	29.0	-	-	-	< 2	0.400	-	11.0
	WQ17	Surface		6/18/2012	7.25	29.0	12.8	12.8	12.0	< 2	0.900	-	11.0
	WQ17	Surface	Dup	9/17/2012	7.56	70.0	-	-	48.0	< 2	0.700	-	34.0
	WQ17	Surface		9/17/2012	7.55	70.0	29.4	29.4	56.0	< 2	0.600	-	34.0
	WQ17	Surface		1/13/2013	7.21	92.0	39.9	40.0	52.0	< 2	1.00	-	45.0
	WQ18	Surface		12/12/2011	7.75	149	65.9	68.7	104	2.00	1.20	-	73.0
	WQ18	Surface		3/12/2012	8.17	172	73.4	78.2	96.0	< 2	0.600	-	87.0
	WQ18	Surface		6/19/2012	8.01	118	45.0	47.0	96.0	< 2	3.30	-	63.0
	WQ18	Surface		9/18/2012	8.08	140	65.4	65.4	88.0	< 2	1.20	-	70.0
	WQ18	Surface		1/16/2013	7.74	171	73.2	79.9	136	74.0	44.0	-	88.0
	WQ19	Surface		6/18/2012	8.22	191	85.6	86.7	124	3.00	0.900	-	101
	WQ19	Surface		9/17/2012	7.96	206	105	105	148	< 2	0.800	-	95.0
	WQ19	Surface		12/10/2012	7.93	201	107	107	116	< 2	0.700	-	109
	WQ26	Surface		1/13/2013	7.70	131	62.2	63.3	76.0	< 2	0.700	-	68.0

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LabID	Site	Depth	QAQC	Date	Physical Tests								
					pH	Conductivity	Hardness (as CaCO ₃)	Hardness, Total (as CaCO ₃)	Total Dissolved	Total Suspended	Turbidity	Acidity (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)
					pH units	µS/cm	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L
	WQ26	Surface		2/12/2013	7.80	127	60.9	60.9	64.0	< 2	0.500	-	66.0
	WQ26	Surface		3/11/2013	7.88	127	64.7	64.8	76.0	< 2	1.00	-	68.0
	WQ26	Surface		4/15/2013	7.74	108	46.0	48.8	52.0	< 2	0.400	-	51.0
	WQ26	Surface		5/13/2013	7.53	41.0	14.3	14.3	52.0	7.00	3.50	-	20.0
	WQ26	Surface		5/22/2013	7.24	44.0	17.0	18.2	68.0	< 2	0.900	-	15.0
	WQ26	Surface		5/27/2013	7.29	35.0	18.5	18.5	96.0	6.00	1.90	-	13.0
	WQ26	Surface		6/6/2013	7.29	36.0	17.1	17.6	52.0	6.00	1.90	-	15.0
	WQ26	Surface		6/10/2013	7.40	44.0	20.4	21.5	36.0	2.00	2.30	-	21.0
	WQ26	Surface		6/17/2013	7.33	45.0	19.1	20.8	56.0	5.00	1.70	-	20.0
L1762266-6	WQ26	Surface	Dup	4/27/2016	7.22	39.4	18.0	-	48.0	5.60	1.19	2.70	16.1
L1762266-3	WQ26	Surface		4/27/2016	7.28	37.7	17.4	-	50.0	4.60	1.32	2.80	16.3
L1764648-3	WQ26	Surface	Dup	5/3/2016	7.40	31.8	14.3	-	47.0	<3.0	0.660	2.70	12.6
L1764648-2	WQ26	Surface		5/3/2016	7.46	39.0	17.4	-	51.0	3.40	0.750	2.80	16.4
L1767107-3	WQ26	Surface		5/9/2016	7.56	44.2	19.2	-	48.0	<3.0	0.660	1.60	21.3
L1770672-3	WQ26	Surface		5/16/2016	7.67	49.8	21.4	-	49.0	<3.0	0.420	2.00	25.6
L1774541-2	WQ26	Surface		5/25/2016	7.77	55.1	24.7	-	55.0	<3.0	0.560	1.80	26.8
L1788643-2	WQ26	Surface		6/22/2016	7.60	49.0	20.9	-	63.0	<3.0	0.480	3.40	23.1
L1808945-2	WQ26	Surface	Dup	8/3/2016	7.70	73.9	31.1	-	60.0	<3.0	0.360	2.20	35.9
L1808945-6	WQ26	Surface		8/3/2016	7.66	73.3	32.3	-	65.0	<3.0	0.380	2.30	35.8
L1812856-2	WQ26	Surface		8/10/2016	7.83	83.4	34.5	-	72.0	<3.0	0.310	1.60	41.2
L1815654-2	WQ26	Surface		8/16/2016	7.83	87.7	39.8	-	68.0	<3.0	0.360	2.40	47.5
L1819041-4	WQ26	Surface	Dup	8/23/2016	7.72	80.5	36.6	-	81.0	<3.0	0.400	1.80	42.3
L1819041-8	WQ26	Surface		8/23/2016	7.75	82.5	36.7	-	81.0	<3.0	0.340	1.70	42.7
L1823224-5	WQ26	Surface		8/31/2016	7.72	84.2	38.5	-	74.0	<3.0	0.430	2.10	41.1
L1826303-5	WQ26	Surface		9/7/2016	7.67	74.5	34.3	-	53.0	<3.0	0.400	2.30	39.4
L1913531-5	WQ26	Surface		4/12/2017	7.96	117	56.4	-	82.0	<3.0	0.280	1.50	62.2
L1926080-2	WQ26	Surface		5/11/2017	7.32	42.7	20.3	-	68.0	3.20	1.95	2.70	17.4
L1928943-5	WQ26	Surface	Dup	5/17/2017	7.40	39.9	18.2	-	60.0	3.80	1.09	2.60	20.1
L1928943-1	WQ26	Surface		5/17/2017	7.43	40.0	18.4	-	60.0	<3.0	0.970	2.70	17.4
L1932034-3	WQ26	Surface		5/24/2017	7.18	31.3	14.7	-	50.0	8.70	1.34	2.80	12.5
L1935151-5	WQ26	Surface	Dup	5/30/2017	7.25	28.0	12.8	-	44.0	3.20	1.56	2.70	11.3
L1935151-1	WQ26	Surface		5/30/2017	7.26	28.0	12.8	-	45.0	4.40	1.57	2.70	11.1
L1939712-4	WQ26	Surface	Dup	6/7/2017	7.42	39.7	17.5	-	48.0	4.70	0.630	2.40	17.6
L1939712-3	WQ26	Surface		6/7/2017	7.44	39.6	17.6	-	46.0	3.50	0.630	2.30	17.7
L1964508-1	WQ26	Surface		7/24/2017	7.85	91.5	40.9	-	74.0	<3.0	0.290	1.40	48.4
L1984944-4	WQ26	Surface		8/30/2017	8.03	123	53.6	-	86.0	<3.0	0.260	1.90	63.2
L1988190-3	WQ26	Surface		9/6/2017	7.97	115	53.9	-	95.0	<3.0	0.240	1.90	60.5
L1991279-3	WQ26	Surface		9/13/2017	7.99	113	51.1	-	313	4.50	0.230	1.10	61.5
L1995655-1	WQ26	Surface		9/21/2017	7.89	107	47.7	-	74.0	<3.0	0.400	1.50	56.2
L1999769-1	WQ26	Surface		9/28/2017	7.99	110	47.5	-	123	<3.0	0.310	1.90	56.6
L2009845-5	WQ26	Surface		10/17/2017	7.95	69.3	28.7	-	60.0	10.3	1.98	2.40	32.8
L2020333-5	WQ26	Surface		11/7/2017	7.75	66.6	31.9	-	57.0	<3.0	0.750	2.20	34.1
L2035356-3	WQ26	Surface		12/12/2017	7.87	80.6	39.5	-	72.0	<3.0	0.390	1.90	43.0
L2049678-3	WQ26	Surface		1/24/2018	8.07	104	47.3	-	74.0	<3.0	0.210	1.50	50.7

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LabID	Site	Depth	QAQC	Date	Physical Tests								
					pH	Conductivity	Hardness (as CaCO ₃)	Hardness, Total (as CaCO ₃)	Total Dissolved	Total Suspended	Turbidity	Acidity (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)
					pH units	µS/cm	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L
L2057605-1	WQ26	Surface		2/14/2018	7.94	105	47.9	-	81.0	<3.0	0.320	1.80	53.9
L2074294-4	WQ26	Surface		3/28/2018	8.12	119	46.7	-	78.0	<3.0	0.280	1.20	58.2
L2081503-5	WQ26	Surface		4/17/2018	8.03	115	53.5	-	79.0	<3.0	0.240	1.70	58.6
L2097084-5	WQ26	Surface		5/16/2018	7.31	25.2	11.5	-	50.0	18.5	4.14	3.30	9.50
L2103632-4	WQ26	Surface		5/29/2018	7.57	40.6	18.6	-	26.0	5.00	0.940	1.70	21.1
L2132986-5	WQ26	Surface		7/18/2018	7.93	85.2	37.4	-	70.0	<3.0	0.390	1.90	46.1
L2143640-4	WQ26	Surface	Dup	8/7/2018	7.94	92.9	40.3	-	77.0	<3.0	0.280	1.40	49.7
L2143640-3	WQ26	Surface		8/7/2018	7.94	92.3	40.6	-	75.0	<3.0	0.310	1.40	50.3
L2156026-1	WQ26	Surface		8/28/2018	8.00	115	49.7	-	81.0	<3.0	0.230	1.10	58.7
L2159605-1	WQ26	Surface		9/4/2018	8.03	116	50.1	-	76.0	<3.0	0.140	1.60	58.6
L2160840-4	WQ26	Surface	Dup	9/7/2018	8.01	119	52.4	-	86.0	<3.0	0.310	1.50	60.5
L2160840-1	WQ26	Surface		9/7/2018	7.97	115	51.3	-	82.0	<3.0	0.290	1.20	57.4
L2163669-3	WQ26	Surface		9/11/2018	8.04	107	50.9	-	69.0	<3.0	0.170	1.00	54.1
L2188218-4	WQ26	Surface		10/26/2018	7.78	84.1	38.3	-	84.0	<3.0	0.220	2.40	43.8
L2203408-1	WQ26	Surface		11/27/2018	7.69	70.9	29.6	-	60.0	<3.0	0.380	2.40	35.2
L2213246-2	WQ26	Surface		12/18/2018	7.92	74.5	38.2	-	71.0	<3.0	0.300	1.60	41.8
L2227701-2	WQ26	Surface		1/30/2019	7.88	95.3	42.5	-	76.0	<3.0	0.280	2.30	48.5
L2232050-1	WQ26	Surface		2/11/2019	7.84	110	48.0	-	82.0	<3.0	0.240	2.50	55.5
L2244756-5	WQ26	Surface	Dup	3/13/2019	7.89	118	52.1	-	77.0	<3.0	0.160	1.10	58.3
L2244756-2	WQ26	Surface		3/13/2019	7.88	117	50.9	-	79.0	<3.0	0.200	1.10	58.7
L2256053-2	WQ26	Surface		4/8/2019	7.70	77.9	32.6	-	64.0	<3.0	0.480	1.70	40.3
L2269368-2	WQ26	Surface		5/4/2019	7.44	46.9	21.4	-	49.0	10.2	2.09	2.30	21.4
L2273497-4	WQ26	Surface		5/13/2019	7.28	36.0	16.9	-	52.0	8.40	1.82	2.60	15.9
L2277964-7	WQ26	Surface		5/21/2019	7.09	30.4	15.2	-	58.0	20.0	6.43	3.20	12.5
L2282975-2	WQ26	Surface		5/29/2019	7.49	40.4	19.9	-	52.0	5.30	1.21	2.40	21.5
L2285579-2	WQ26	Surface		6/3/2019	7.58	47.9	22.4	-	53.0	3.50	0.890	2.30	22.3
L2312637-3	WQ26	Surface		7/16/2019	7.71	52.1	24.1	-	62.0	<3.0	0.490	2.10	27.1
L2326388-3	WQ26	Surface		8/8/2019	7.69	58.0	27.2	-	64.0	<3.0	0.790	2.70	28.6
L2349445-7	WQ26	Surface	Dup	9/16/2019	7.79	79.8	34.7	-	69.0	3.10	0.440	2.10	40.8
L2349445-5	WQ26	Surface		9/16/2019	7.79	81.1	34.7	-	72.0	<3.0	0.370	1.90	39.9
L2371052-6	WQ26	Surface	Dup	10/22/2019	7.62	60.3	26.3	-	61.0	<3.0	1.33	2.30	30.6
L2371052-4	WQ26	Surface		10/22/2019	7.62	58.9	26.7	-	41.0	<3.0	1.02	2.40	30.7
L2383392-2	WQ26	Surface		11/14/2019	7.75	52.9	23.2	-	53.0	<3.0	0.610	2.10	27.7
VA19A0726-001	WQ26	Surface		12/16/2019	7.40	67.3	29.4	30.4	63.0	<3.0	0.830	2.50	33.9
VA20A0688-002	WQ26	Surface		1/21/2020	7.75	89.5	40.0	40.0	66.0	<3.0	0.400	2.00	45.8
VA20A1887-002	WQ26	Surface		2/13/2020	7.70	94.0	41.9	42.3	68.0	<3.0	0.260	2.00	49.0
VA20A3516-002	WQ26	Surface		3/16/2020	7.75	109	45.4	49.4	75.0	<3.0	0.180	2.80	58.1
VA20A4555-001	WQ26	Surface		4/7/2020	7.75	112	52.8	52.8	81.0	<3.0	0.170	<2.0	59.3
VA20A6574-003	WQ26	Surface		5/14/2020	7.13	32.8	15.4	16.2	52.0	4.20	1.04	2.90	13.9
VA20B2156-002	WQ26	Surface		8/5/2020	7.71	85.4	37.9	36.7	66.0	<3.0	0.290	<2.0	41.6
VA20C1166-003	WQ26	Surface		11/17/2020	7.44	54.4	24.2	24.6	55.0	3.00	1.08	3.00	25.0
	WQ27	Surface		4/13/2014	7.71	103	46.9	-	68.0	<2	0.300	-	51.0
	WQ27	Surface		7/2/2014	7.37	56.0	26.2	-	72.0	<2	0.400	-	26.0
	WQ27	Surface		9/24/2014	7.84	123	60.0	-	104	<2	0.100	-	60.0

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Physical Tests								
					pH	Conductivity	Hardness (as CaCO ₃)	Hardness, Total (as CaCO ₃)	Total Dissolved	Total Suspended	Turbidity	Acidity (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)
					pH units	µS/cm	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L
	WQ27	Surface		12/9/2014	7.78	112	51.6	-	76.0	<2	0.100	-	53.0
L1762266-4	WQ27	Surface		4/27/2016	7.15	30.5	13.3	-	41.0	3.20	0.910	2.90	11.6
L1764648-6	WQ27	Surface		5/3/2016	7.27	31.6	13.1	-	45.0	<3.0	0.640	2.90	13.3
L1767107-4	WQ27	Surface		5/9/2016	7.45	35.1	14.9	-	36.0	<3.0	0.630	1.90	14.3
L1770672-4	WQ27	Surface		5/16/2016	7.60	39.1	16.5	-	42.0	<3.0	0.740	2.00	17.6
L1774541-3	WQ27	Surface		5/25/2016	7.65	43.6	19.4	-	43.0	<3.0	0.390	2.00	21.2
L1788643-6	WQ27	Surface	Dup	6/22/2016	7.63	38.6	17.0	-	57.0	<3.0	0.510	2.30	16.3
L1788643-3	WQ27	Surface		6/22/2016	7.62	38.3	16.7	-	62.0	<3.0	0.520	2.50	16.3
L1808945-3	WQ27	Surface		8/3/2016	7.68	61.5	25.0	-	61.0	<3.0	0.410	2.20	28.9
L1812856-3	WQ27	Surface		8/10/2016	7.72	68.4	27.6	-	64.0	<3.0	0.410	1.80	32.6
L1815654-3	WQ27	Surface		8/16/2016	7.70	73.3	33.0	-	64.0	<3.0	0.390	2.40	39.1
L1819041-10	WQ27	Surface		8/23/2016	7.62	66.4	29.4	-	72.0	<3.0	0.440	1.80	34.4
L1823224-6	WQ27	Surface		8/31/2016	7.58	68.3	30.7	-	64.0	<3.0	0.420	2.30	32.9
L1826303-2	WQ27	Surface		9/7/2016	7.55	59.3	26.3	-	65.0	<3.0	0.450	2.50	31.0
L1913006-2	WQ27	Surface		4/11/2017	7.90	101	46.8	-	69.0	<3.0	0.240	2.00	52.1
L1925486-3	WQ27	Surface		5/10/2017	7.22	34.0	16.1	-	60.0	3.50	1.55	2.50	13.5
L1928943-2	WQ27	Surface		5/17/2017	7.29	32.8	14.4	-	54.0	<3.0	1.07	2.80	13.4
L1932034-2	WQ27	Surface		5/24/2017	7.05	26.4	12.4	-	49.0	4.30	1.45	3.00	10.0
L1935151-2	WQ27	Surface		5/30/2017	7.09	23.2	10.6	-	45.0	<3.0	1.37	2.90	9.00
L1939712-2	WQ27	Surface		6/7/2017	7.30	32.5	13.7	-	42.0	4.10	0.470	2.50	12.9
L1961670-3	WQ27	Surface		7/18/2017	7.71	73.0	30.6	-	59.0	<3.0	0.340	1.70	37.4
L1984944-3	WQ27	Surface		8/30/2017	7.96	113	48.9	-	84.0	<3.0	0.200	2.00	54.1
L1988832-2	WQ27	Surface		9/8/2017	7.96	106	47.4	-	77.0	<3.0	0.220	2.00	54.2
L1991279-2	WQ27	Surface	Dup	9/13/2017	7.90	98.1	44.3	-	89.0	<3.0	0.290	2.10	51.7
L1991279-6	WQ27	Surface		9/13/2017	7.85	99.6	44.1	-	81.0	4.50	0.280	1.60	52.4
L1995655-2	WQ27	Surface		9/21/2017	7.82	84.9	36.0	-	70.0	<3.0	0.440	1.50	42.9
L1999769-2	WQ27	Surface		9/28/2017	7.89	92.5	40.7	-	98.0	<3.0	0.290	1.90	46.6
L2011329-3	WQ27	Surface		10/19/2017	7.67	60.0	24.8	-	61.0	<3.0	1.05	2.30	25.8
L2020946-2	WQ27	Surface		11/8/2017	7.54	53.8	22.7	-	52.0	<3.0	0.740	2.40	27.2
L2035356-2	WQ27	Surface		12/12/2017	7.76	63.3	30.1	-	52.0	<3.0	0.360	1.90	33.2
L2049678-4	WQ27	Surface		1/24/2018	7.87	84.8	39.0	-	67.0	<3.0	0.280	2.20	40.9
L2057605-2	WQ27	Surface		2/14/2018	7.89	87.3	37.4	-	72.0	<3.0	0.280	2.10	45.8
L2074294-5	WQ27	Surface		3/28/2018	8.07	101	39.8	-	71.0	<3.0	0.200	1.40	49.3
L2081503-6	WQ27	Surface		4/17/2018	7.95	97.5	42.7	-	74.0	<3.0	0.270	1.90	49.5
L2093061-1	WQ27	Surface		5/9/2018	7.18	22.0	10.5	-	60.0	19.5	5.66	3.30	7.40
L2097084-6	WQ27	Surface		5/16/2018	7.18	20.6	9.20	-	48.0	10.5	2.69	3.30	7.80
L2100419-3	WQ27	Surface	Dup	5/23/2018	7.33	25.6	10.3	-	43.0	3.30	1.15	3.10	10.3
L2100419-1	WQ27	Surface		5/23/2018	7.34	25.5	10.6	-	44.0	4.30	0.940	3.30	10.3
L2103632-5	WQ27	Surface		5/29/2018	7.44	31.3	14.0	-	39.0	<3.0	0.620	2.70	14.6
L2106738-3	WQ27	Surface	Dup	6/4/2018	7.51	34.1	14.3	-	47.0	<3.0	0.890	2.20	15.4
L2106738-1	WQ27	Surface		6/4/2018	7.44	33.7	14.3	-	48.0	3.80	0.750	2.20	15.3
L2132986-4	WQ27	Surface		7/18/2018	7.84	70.9	30.4	-	58.0	<3.0	0.310	2.10	37.4
L2143640-8	WQ27	Surface		8/7/2018	7.72	74.8	34.0	-	66.0	<3.0	0.570	2.50	42.3
L2156026-4	WQ27	Surface	Dup	8/28/2018	7.86	101	43.2	-	73.0	<3.0	0.220	1.10	51.0

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LabID	Site	Depth	QAQC	Date	Physical Tests								
					pH	Conductivity	Hardness (as CaCO ₃)	Hardness, Total (as CaCO ₃)	Total Dissolved	Total Suspended	Turbidity	Acidity (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)
					pH units	µS/cm	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L
L2156026-2	WQ27	Surface		8/28/2018	7.91	101	42.1	-	70.0	<3.0	0.140	1.10	51.5
L2159605-2	WQ27	Surface		9/4/2018	7.83	102	43.1	-	70.0	<3.0	0.230	2.00	50.5
L2160840-2	WQ27	Surface		9/7/2018	7.86	103	45.5	-	77.0	<3.0	0.220	1.40	52.3
L2163669-4	WQ27	Surface		9/11/2018	7.99	93.4	42.0	-	67.0	<3.0	0.440	1.10	47.8
L2188218-3	WQ27	Surface		10/26/2018	7.68	67.6	30.6	-	74.0	<3.0	0.300	2.30	34.7
L2204508-6	WQ27	Surface	Dup	11/29/2018	7.55	54.0	23.9	-	58.0	<3.0	0.410	2.20	27.3
L2204508-4	WQ27	Surface		11/29/2018	7.54	53.9	24.7	-	56.0	3.00	0.410	2.20	27.9
L2213246-3	WQ27	Surface		12/18/2018	7.83	64.9	30.4	-	62.0	<3.0	0.340	1.80	34.4
L2227701-3	WQ27	Surface		1/30/2019	7.78	80.6	35.0	-	64.0	<3.0	0.270	2.30	40.5
L2232050-2	WQ27	Surface		2/11/2019	7.73	95.0	40.3	-	73.0	<3.0	0.250	2.60	46.2
L2244756-3	WQ27	Surface		3/13/2019	7.83	104	43.8	-	72.0	<3.0	0.170	1.10	51.5
L2256053-3	WQ27	Surface		4/8/2019	7.71	80.5	34.5	-	63.0	<3.0	0.440	2.40	41.2
L2269368-3	WQ27	Surface		5/4/2019	7.31	37.8	17.5	-	49.0	6.40	1.66	2.40	16.2
L2274397-1	WQ27	Surface		5/14/2019	7.20	30.4	13.4	-	52.0	<3.0	1.00	2.70	12.9
L2277964-6	WQ27	Surface		5/21/2019	7.45	24.8	11.3	-	55.0	8.60	3.16	3.50	8.90
L2282975-3	WQ27	Surface		5/29/2019	7.27	30.0	14.4	-	42.0	<3.0	0.800	2.90	13.2
L2285579-3	WQ27	Surface		6/3/2019	7.37	35.7	16.6	-	50.0	<3.0	0.650	2.40	17.0
L2312637-4	WQ27	Surface		7/16/2019	7.45	40.5	18.5	-	40.0	<3.0	0.520	2.10	21.0
L2326388-2	WQ27	Surface		8/8/2019	7.55	44.5	20.6	-	55.0	<3.0	0.700	2.20	22.2
L2350223-2	WQ27	Surface		9/17/2019	7.75	58.5	25.3	-	70.0	<3.0	0.510	2.10	29.4
L2372667-2	WQ27	Surface		10/23/2019	7.61	47.4	19.1	-	48.0	<3.0	0.580	2.60	24.8
L2383392-3	WQ27	Surface		11/14/2019	7.62	41.9	17.7	-	42.0	<3.0	0.960	2.20	21.3
VA19A0726-002	WQ27	Surface		12/16/2019	7.31	53.7	23.7	24.3	51.0	<3.0	0.560	2.30	26.2
VA20A0812-002	WQ27	Surface		1/23/2020	7.70	74.1	31.7	33.0	60.0	<3.0	0.340	3.30	37.2
VA20A1887-005	WQ27	Surface		2/13/2020	7.70	77.5	35.4	35.0	67.0	<3.0	0.270	2.30	38.5
VA20A3516-003	WQ27	Surface		3/16/2020	7.66	91.5	37.5	40.8	66.0	<3.0	0.200	2.70	47.1
VA20A4369-002	WQ27	Surface		4/1/2020	7.67	96.9	43.5	41.6	74.0	<3.0	0.400	2.30	50.3
L1913006-4	WQ28	Surface		4/11/2017	7.90	101	46.4	-	73.0	<3.0	3.00	1.90	51.2
L1925486-2	WQ28	Surface		5/10/2017	7.21	33.0	15.8	-	58.0	<3.0	1.53	2.60	13.7
L1928943-3	WQ28	Surface		5/17/2017	7.25	31.8	15.1	-	59.0	110	0.930	2.90	12.9
L1932034-4	WQ28	Surface	Dup	5/24/2017	7.04	26.0	12.0	-	50.0	3.10	1.38	3.00	9.50
L1932034-1	WQ28	Surface		5/24/2017	7.01	26.2	12.1	-	49.0	4.50	1.07	3.20	9.50
L1935151-3	WQ28	Surface		5/30/2017	7.15	23.2	10.4	-	45.0	<3.0	1.68	2.80	8.50
L1939712-1	WQ28	Surface		6/7/2017	7.34	34.5	13.3	-	29.0	7.30	0.460	2.40	12.5
L1961670-5	WQ28	Surface	Dup	7/18/2017	7.70	70.5	30.0	-	52.0	<3.0	0.340	1.70	36.2
L1961670-4	WQ28	Surface		7/18/2017	7.71	70.6	29.8	-	54.0	<3.0	0.340	1.70	36.6
L1984944-2	WQ28	Surface		8/30/2017	8.00	114	49.8	-	80.0	<3.0	0.290	1.90	56.2
L1988832-3	WQ28	Surface		9/8/2017	8.00	105	47.5	-	74.0	16.8	0.340	1.80	53.1
L1991279-1	WQ28	Surface		9/13/2017	7.94	97.4	43.4	-	93.0	<3.0	0.420	2.00	51.3
L1995655-3	WQ28	Surface	Dup	9/21/2017	7.83	80.8	34.1	-	64.0	4.00	0.500	1.50	40.8
L1995655-5	WQ28	Surface		9/21/2017	7.72	80.7	33.6	-	57.0	3.40	0.520	1.90	40.1
L1999769-3	WQ28	Surface	Dup	9/28/2017	7.90	91.0	39.9	-	102	<3.0	0.330	1.90	46.5
L1999769-4	WQ28	Surface		9/28/2017	7.90	90.8	39.1	-	100	<3.0	0.360	1.90	46.2
L2011329-4	WQ28	Surface		10/19/2017	7.76	55.3	23.5	-	64.0	<3.0	0.970	1.90	25.5

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LabID	Site	Depth	QAQC	Date	Physical Tests								
					pH	Conductivity	Hardness (as CaCO ₃)	Hardness, Total (as CaCO ₃)	Total Dissolved	Total Suspended	Turbidity	Acidity (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)
					pH units	µS/cm	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L
L2020946-3	WQ28	Surface		11/8/2017	7.59	53.0	22.6	-	51.0	<3.0	0.830	2.30	26.1
L2035356-1	WQ28	Surface		12/12/2017	7.75	61.7	29.3	-	60.0	<3.0	0.440	2.10	32.5
L2049678-5	WQ28	Surface		1/24/2018	7.87	83.0	38.9	-	65.0	<3.0	0.450	2.20	40.3
L2057605-3	WQ28	Surface		2/14/2018	7.89	87.1	38.0	-	72.0	<3.0	0.400	2.00	44.9
L2074294-6	WQ28	Surface		3/28/2018	7.78	99.8	39.7	-	74.0	3.00	0.270	2.70	48.7
L2081503-7	WQ28	Surface		4/17/2018	7.97	96.5	42.4	-	72.0	<3.0	0.270	1.80	47.9
L2093061-3	WQ28	Surface	Dup	5/9/2018	7.10	21.7	9.87	-	60.0	20.7	7.32	3.60	6.90
L2093061-2	WQ28	Surface		5/9/2018	7.13	21.5	10.0	-	43.0	26.7	7.57	3.30	6.70
L2097084-7	WQ28	Surface		5/16/2018	7.15	20.0	8.93	-	43.0	6.90	2.65	3.20	7.20
L2100419-2	WQ28	Surface		5/23/2018	7.15	24.6	10.4	-	43.0	<3.0	1.06	3.60	10.0
L2103632-6	WQ28	Surface		5/29/2018	7.43	30.3	13.4	-	49.0	<3.0	0.400	2.60	13.6
L2106738-2	WQ28	Surface		6/4/2018	7.48	32.7	13.7	-	47.0	8.80	0.920	2.20	14.6
L2132986-3	WQ28	Surface		7/18/2018	7.84	69.6	30.7	-	61.0	3.50	0.370	2.00	37.0
L2143640-7	WQ28	Surface		8/7/2018	7.87	76.4	33.3	-	67.0	<3.0	0.520	1.40	41.7
L2156026-3	WQ28	Surface		8/28/2018	7.97	101	43.3	-	68.0	<3.0	0.180	2.10	51.7
L2159605-4	WQ28	Surface	Dup	9/4/2018	7.87	101	43.2	-	73.0	<3.0	0.210	1.60	51.1
L2159605-3	WQ28	Surface		9/4/2018	7.83	101	43.6	-	70.0	<3.0	0.200	1.80	49.8
L2160840-3	WQ28	Surface		9/7/2018	7.91	103	44.9	-	77.0	<3.0	0.290	1.20	53.8
L2163669-5	WQ28	Surface		9/11/2018	7.99	92.1	39.6	-	64.0	<3.0	0.260	1.00	46.6
L2188218-2	WQ28	Surface		10/26/2018	7.68	66.1	29.2	-	77.0	<3.0	0.340	2.30	34.1
L2204508-5	WQ28	Surface		11/29/2018	7.54	52.8	23.1	-	56.0	<3.0	0.470	2.30	26.9
L2213246-4	WQ28	Surface		12/18/2018	7.77	61.0	28.9	-	61.0	<3.0	0.380	1.80	33.4
L2227701-4	WQ28	Surface		1/30/2019	7.80	79.2	34.7	-	49.0	<3.0	0.310	2.20	38.7
L2232050-3	WQ28	Surface		2/11/2019	7.80	94.7	39.9	-	73.0	<3.0	0.330	2.40	46.4
L2244756-4	WQ28	Surface		3/13/2019	7.85	104	44.9	-	72.0	<3.0	0.210	1.10	49.4
L2256053-4	WQ28	Surface		4/8/2019	7.82	101	43.4	-	74.0	<3.0	0.350	1.40	53.1
L2269368-4	WQ28	Surface		5/4/2019	7.38	36.5	17.3	-	50.0	6.40	1.59	2.40	15.5
L2274397-2	WQ28	Surface		5/14/2019	7.21	29.6	13.2	-	50.0	<3.0	1.19	2.80	12.4
L2277964-8	WQ28	Surface	Dup	5/21/2019	7.43	24.2	11.8	-	59.0	13.8	3.15	3.40	8.50
L2277964-5	WQ28	Surface		5/21/2019	7.50	24.9	11.1	-	60.0	9.20	2.77	3.60	8.80
L2282975-6	WQ28	Surface	Dup	5/29/2019	7.23	30.4	14.3	-	48.0	<3.0	0.730	2.60	13.5
L2282975-4	WQ28	Surface		5/29/2019	7.35	30.2	13.9	-	52.0	<3.0	0.640	2.60	12.8
L2285579-4	WQ28	Surface		6/3/2019	7.46	34.7	16.1	-	49.0	<3.0	0.610	2.30	15.6
L2312637-5	WQ28	Surface		7/16/2019	7.49	39.1	17.8	-	48.0	<3.0	0.460	2.10	20.9
L2326388-4	WQ28	Surface		8/8/2019	7.55	44.5	19.3	-	54.0	<3.0	0.610	2.20	21.8
L2350223-3	WQ28	Surface		9/17/2019	7.77	60.4	26.9	-	74.0	<3.0	0.400	2.00	29.8
L2372667-3	WQ28	Surface		10/23/2019	7.60	45.6	19.2	-	52.0	<3.0	0.670	2.40	24.2
L2383392-4	WQ28	Surface		11/14/2019	7.53	39.5	17.3	-	46.0	<3.0	0.770	2.60	21.2
VA19A0726-003	WQ28	Surface		12/16/2019	7.32	52.8	23.0	23.5	51.0	<3.0	0.470	2.20	26.1
VA20A0812-003	WQ28	Surface		1/23/2020	7.71	72.9	30.7	33.8	60.0	<3.0	0.320	2.40	36.7
VA20A1887-004	WQ28	Surface		2/13/2020	7.61	77.6	32.3	34.0	62.0	<3.0	0.380	2.20	38.4
VA20A3516-004	WQ28	Surface		3/16/2020	7.72	91.0	36.7	40.3	68.0	<3.0	0.260	2.50	45.8
VA20A4369-003	WQ28	Surface		4/1/2020	7.66	94.1	41.5	40.9	70.0	<3.0	0.720	2.10	51.0
VA20A6356-004	WQ28	Surface		5/11/2020	7.05	27.4	12.6	12.7	52.0	<3.0	1.15	2.80	11.6

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Physical Tests								
					pH	Conductivity	Hardness (as CaCO ₃)	Hardness, Total (as CaCO ₃)	Total Dissolved	Total Suspended	Turbidity	Acidity (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)
					pH units	µS/cm	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L
VA20B2426-005	WQ28	Surface		8/10/2020	7.75	62.1	25.4	27.2	61.0	<3.0	0.520	2.10	29.7
VA20C0197-004	WQ28	Surface		11/4/2020	7.17	31.5	14.4	14.4	52.0	5.00	2.37	3.60	11.9
L2238112-1	WQ29	Surface		2/26/2019	7.71	170	75.1	-	106	<3.0	1.17	4.10	82.2
L2278768-1	WQ29	Surface		5/22/2019	7.80	94.5	45.0	-	95.0	11.8	4.46	2.50	45.8
L2325935-4	WQ29	Surface	Dup	8/7/2019	8.10	124	59.7	-	104	<3.0	1.50	<1.0	64.3
L2325935-2	WQ29	Surface		8/7/2019	8.01	126	59.4	-	91.0	<3.0	1.54	1.80	63.2
L2388381-6	WQ29	Surface	Dup	11/25/2019	7.94	119	57.8	-	86.0	3.70	1.26	2.10	65.3
L2388381-5	WQ29	Surface		11/25/2019	7.94	120	58.2	-	85.0	4.30	1.71	2.10	63.2
VA20A1056-001	WQ29	Surface		1/28/2020	7.84	149	74.3	74.6	101	3.40	1.27	2.60	78.2
VA20A1776-001	WQ29	Surface		2/2/2020	7.86	152	71.9	73.0	100	<3.0	1.24	<2.0	77.0
VA20A3580-003	WQ29	Surface	Dup	3/17/2020	7.92	160	76.4	73.7	116	<3.0	1.16	2.70	78.9
VA20A3580-001	WQ29	Surface		3/17/2020	7.89	160	76.8	74.1	114	<3.0	1.04	3.30	80.9
VA20A4424-003	WQ29	Surface	Dup	4/2/2020	8.05	165	77.9	82.7	111	3.70	1.77	<2.0	80.5
VA20A4424-001	WQ29	Surface		4/2/2020	8.07	168	83.1	80.3	113	4.70	1.82	2.10	80.2
VA20A6114-001	WQ29	Surface		5/6/2020	7.83	110	51.4	51.8	98.0	3.60	1.10	<2.0	51.4
VA20A6503-001	WQ29	Surface		5/13/2020	7.80	108	53.3	52.3	89.0	5.50	1.29	<2.0	58.2
VA20A6869-004	WQ29	Surface		5/20/2020	7.76	99.5	47.3	46.1	90.0	4.20	1.36	<2.0	52.1
VA20A7367-004	WQ29	Surface		5/28/2020	7.73	114	49.4	55.9	89.0	<3.0	1.54	<2.0	60.2
VA20A7797-001	WQ29	Surface		6/3/2020	7.71	116	53.9	55.0	94.0	7.20	1.71	<2.0	61.5
VA20B0021-001	WQ29	Surface		7/7/2020	7.75	118	56.9	56.3	99.0	<3.0	1.94	2.90	57.4
VA20B2012-001	WQ29	Surface		8/4/2020	8.03	144	66.7	65.4	96.0	4.40	1.30	<2.0	72.4
VA20B2542-001	WQ29	Surface		8/11/2020	8.10	143	67.4	70.2	104	<3.0	1.64	<2.0	70.3
VA20B3033-001	WQ29	Surface		8/17/2020	7.88	147	68.6	70.5	107	9.10	7.37	2.30	73.9
VA20B3860-001	WQ29	Surface		8/26/2020	8.08	146	73.4	70.9	80.0	<3.0	1.28	<2.0	70.9
VA20B4443-001	WQ29	Surface		9/2/2020	8.06	148	72.4	64.7	104	<3.0	1.24	<2.0	72.7
VA20B7828-004	WQ29	Surface	Dup	10/8/2020	8.05	149	75.1	67.8	101	<3.0	1.38	<2.0	75.9
VA20B7828-001	WQ29	Surface		10/8/2020	8.03	149	74.6	70.1	105	<3.0	1.37	<2.0	74.2
VA20B9945-001	WQ29	Surface		11/2/2020	7.69	103	46.7	51.5	83.0	5.20	3.23	2.90	46.5
	WQ3	Surface		5/17/2011	7.37	51.0	23.1	23.4	68.0	19.0	8.30	-	24.0
	WQ3	Surface		5/25/2011	7.26	43.0	15.0	16.6	80.0	< 2	1.60	-	15.0
	WQ3	Surface		5/31/2011	6.98	35.0	13.6	14.5	76.0	2.00	0.900	-	10.0
	WQ3	Surface		6/7/2011	7.25	41.0	16.9	16.8	56.0	3.00	0.700	-	15.0
	WQ3	Surface		6/14/2011	7.34	49.0	20.4	21.0	56.0	3.00	1.00	-	22.0
	WQ3	Surface		7/19/2011	7.34	62.0	25.5	26.3	72.0	< 2	1.00	-	29.0
	WQ3	Surface		8/16/2011	7.64	78.0	32.5	36.2	40.0	3.00	1.80	-	38.0
	WQ3	Surface		9/20/2011	7.57	94.0	40.5	41.1	76.0	4.00	2.00	-	48.0
	WQ3	Surface		10/18/2011	7.50	90.0	39.3	41.0	76.0	< 2	1.20	-	44.0
	WQ3	Surface		11/15/2011	7.50	94.0	39.4	42.5	96.0	2.00	0.900	-	63.0
	WQ3	Surface		12/12/2011	7.51	103	44.3	44.6	60.0	< 2	2.10	-	50.0
	WQ3	Surface		1/12/2012	7.46	108	44.2	44.0	68.0	< 2	1.30	-	53.0
	WQ3	Surface		2/13/2012	7.83	103	43.8	45.1	56.0	4.00	2.20	-	51.0
	WQ3	Surface		3/12/2012	7.87	105	42.7	46.6	68.0	< 2	1.00	-	53.0
	WQ3	Surface		4/16/2012	7.88	100	46.8	47.3	80.0	2.00	1.20	-	52.0
	WQ3	Surface		5/14/2012	7.76	64.0	23.3	24.3	36.0	13.0	4.30	-	31.0

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Physical Tests								
					pH	Conductivity	Hardness (as CaCO ₃)	Hardness, Total (as CaCO ₃)	Total Dissolved	Total Suspended	Turbidity	Acidity (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)
					pH units	µS/cm	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L
	WQ3	Surface		5/22/2012	7.43	48.0	19.7	21.3	48.0	10.0	2.10	-	21.0
	WQ3	Surface		5/29/2012	7.65	49.0	19.8	19.9	24.0	3.00	2.20	-	21.0
	WQ3	Surface		6/5/2012	7.55	51.0	20.9	21.5	56.0	3.00	2.30	-	24.0
	WQ3	Surface		6/12/2012	7.27	55.0	22.8	23.8	64.0	3.00	1.70	-	30.0
	WQ3	Surface		6/19/2012	7.64	65.0	26.6	26.6	52.0	2.00	1.90	-	32.0
	WQ3	Surface		7/17/2012	7.79	77.0	34.3	35.7	72.0	< 2	1.00	-	48.0
	WQ3	Surface		8/14/2012	7.85	96.0	40.9	40.9	88.0	< 2	1.20	-	48.0
	WQ3	Surface		9/18/2012	7.78	98.0	44.0	44.4	68.0	< 2	2.00	-	51.0
	WQ3	Surface		10/15/2012	7.87	101	43.2	44.4	36.0	< 2	1.50	-	55.0
	WQ3	Surface		11/13/2012	7.81	98.0	42.7	43.6	104	< 2	1.00	-	53.0
	WQ3	Surface		12/10/2012	7.86	149	76.9	76.9	104	< 2	1.30	-	77.0
	WQ3	Surface		1/13/2013	7.68	103	47.2	47.2	84.0	< 2	1.00	-	55.0
	WQ3	Surface		2/12/2013	7.80	103	46.5	46.5	52.0	< 2	1.00	-	56.0
	WQ3	Surface		3/11/2013	7.79	106	49.1	50.2	52.0	2.00	1.40	-	57.0
	WQ3	Surface		4/15/2013	7.70	98.0	41.2	41.9	52.0	< 2	2.50	-	48.0
	WQ3	Surface		5/13/2013	7.33	45.0	20.4	20.4	60.0	4.00	2.00	-	22.0
	WQ3	Surface		5/22/2013	7.37	50.0	21.5	21.6	84.0	7.00	2.40	-	30.0
	WQ3	Surface		5/27/2013	7.48	50.0	24.9	24.9	68.0	3.00	1.50	-	22.0
	WQ3	Surface		6/6/2013	7.33	47.0	21.6	22.2	28.0	4.00	1.50	-	21.0
	WQ3	Surface		6/10/2013	7.42	62.0	26.3	26.4	60.0	2.00	1.70	-	26.0
	WQ3	Surface		6/17/2013	7.36	55.0	23.8	25.0	68.0	3.00	3.40	-	25.0
	WQ3	Surface	Dup	4/13/2014	7.73	107	45.4	-	72.0	4.00	0.500	-	55.0
	WQ3	Surface		4/13/2014	7.70	102	45.1	-	80.0	<2	0.400	-	54.0
	WQ3	Surface		7/2/2014	7.55	84.0	38.2	-	80.0	2.00	0.700	-	41.0
	WQ3	Surface		9/24/2014	7.81	109	50.7	-	92.0	3.00	1.20	-	54.0
	WQ3	Surface		12/9/2014	7.70	107	48.6	-	72.0	<2	0.500	-	59.0
L1926080-7	WQ3	Surface		5/11/2017	7.33	55.5	27.1	-	70.0	10.8	3.53	3.60	25.8
L1962414-1	WQ3	Surface		7/19/2017	7.48	59.5	25.1	-	94.0	<3.0	0.660	2.60	30.5
L1988190-1	WQ3	Surface		9/6/2017	7.75	87.2	40.6	-	101	<3.0	0.690	2.40	47.1
L2010514-1	WQ3	Surface		10/18/2017	7.65	71.2	34.1	-	73.0	8.10	1.34	2.70	38.0
L2060442-1	WQ3	Surface		2/23/2018	7.90	96.7	44.3	-	71.0	<3.0	0.620	2.40	51.9
L2103632-1	WQ3	Surface		5/29/2018	7.63	51.7	24.3	-	53.0	<3.0	0.800	2.50	27.3
L2143640-2	WQ3	Surface		8/7/2018	7.88	91.6	40.7	-	86.0	<3.0	1.38	1.70	51.6
L2204508-2	WQ3	Surface		11/29/2018	7.69	73.3	34.2	-	68.0	<3.0	1.32	2.50	39.9
L2232772-1	WQ3	Surface		2/12/2019	7.76	98.4	41.6	-	75.0	5.40	1.36	2.70	53.2
L2273497-2	WQ3	Surface		5/13/2019	7.53	55.9	24.9	-	58.0	6.80	1.31	1.90	29.5
L2328474-1	WQ3	Surface		8/12/2019	7.62	63.0	28.6	-	72.0	3.60	1.21	2.10	32.9
L2385426-1	WQ3	Surface		11/18/2019	7.57	54.3	24.2	-	63.0	<3.0	1.29	2.70	28.2
VA20A1830-002	WQ3	Surface		2/12/2020	7.81	90.0	36.2	36.8	58.0	3.80	0.980	<2.0	46.9
VA20A6574-001	WQ3	Surface		5/14/2020	7.18	40.6	18.6	19.8	54.0	3.80	0.660	2.40	21.3
VA20B2692-002	WQ3	Surface		8/12/2020	7.85	90.8	39.9	39.3	76.0	<3.0	0.680	<2.0	44.7
VA20C1166-001	WQ3	Surface		11/17/2020	7.50	64.7	26.5	27.8	61.0	<3.0	1.46	3.30	30.6
L2239149-1	WQ30	Surface		2/28/2019	7.74	167	79.3	-	108	3.40	1.40	2.40	84.3
L2278768-2	WQ30	Surface		5/22/2019	7.80	93.4	45.3	-	94.0	17.4	4.52	2.30	44.7

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LabID	Site	Depth	QAQC	Date	Physical Tests								
					pH	Conductivity	Hardness (as CaCO ₃)	Hardness, Total (as CaCO ₃)	Total Dissolved	Total Suspended	Turbidity	Acidity (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)
					pH units	µS/cm	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L
L2325935-1	WQ30	Surface		8/7/2019	8.00	127	60.5	-	106	3.50	1.53	1.90	63.7
L2385426-3	WQ30	Surface		11/18/2019	7.90	111	50.9	-	78.0	5.00	2.24	2.10	57.7
VA20A1056-002	WQ30	Surface		1/28/2020	7.85	153	75.9	79.0	105	<3.0	1.39	2.80	80.0
VA20A1776-002	WQ30	Surface		2/2/2020	7.83	154	71.5	74.2	106	<3.0	1.16	<2.0	78.7
VA20A3580-002	WQ30	Surface		3/17/2020	7.88	171	81.8	78.3	113	3.20	1.22	3.50	84.6
VA20A4424-002	WQ30	Surface		4/2/2020	8.03	178	84.5	86.8	118	<3.0	1.87	<2.0	87.0
VA20A6114-002	WQ30	Surface		5/6/2020	7.83	112	50.6	52.6	88.0	<3.0	1.24	<2.0	57.2
VA20A6503-005	WQ30	Surface	Dup	5/13/2020	7.83	108	52.4	51.8	89.0	3.90	1.04	<2.0	56.9
VA20A6503-002	WQ30	Surface		5/13/2020	7.83	108	53.0	52.6	87.0	4.50	1.11	<2.0	57.8
VA20A6869-005	WQ30	Surface		5/20/2020	7.76	97.4	49.3	46.2	88.0	4.60	1.42	<2.0	51.1
VA20A7367-005	WQ30	Surface		5/28/2020	7.76	113	49.0	55.0	88.0	4.20	1.68	2.10	59.7
VA20A7797-002	WQ30	Surface		6/3/2020	7.79	117	54.4	59.0	92.0	9.00	1.61	<2.0	62.1
VA20B0021-002	WQ30	Surface		7/7/2020	7.80	118	56.0	56.0	99.0	7.80	2.73	2.70	57.0
VA20B2012-002	WQ30	Surface		8/4/2020	8.00	148	66.5	66.9	100	<3.0	1.09	<2.0	73.1
VA20B2542-002	WQ30	Surface		8/11/2020	8.06	148	70.0	73.0	106	<3.0	1.27	<2.0	72.6
VA20B3033-002	WQ30	Surface		8/17/2020	7.94	148	69.9	70.4	108	6.30	1.76	<2.0	74.3
VA20B3860-006	WQ30	Surface	Dup	8/26/2020	8.00	149	74.7	73.0	116	5.00	1.82	<2.0	73.5
VA20B3860-002	WQ30	Surface		8/26/2020	7.97	147	74.7	73.5	104	<3.0	4.66	<2.0	71.8
VA20B4443-002	WQ30	Surface		9/2/2020	8.07	151	73.0	68.4	106	3.10	1.28	<2.0	74.1
VA20B7828-002	WQ30	Surface		10/8/2020	8.03	154	74.0	72.1	104	<3.0	1.44	<2.0	78.5
VA20B9945-002	WQ30	Surface		11/2/2020	7.66	100	47.3	52.1	80.0	4.80	3.53	2.70	47.8
VA20A0688-001	WQ31	Surface		1/21/2020	7.39	46.4	20.0	20.8	51.0	<3.0	0.600	2.50	23.7
VA20A1887-003	WQ31	Surface		2/13/2020	7.38	49.2	21.1	21.8	54.0	<3.0	0.510	2.40	26.0
VA20A3516-005	WQ31	Surface		3/16/2020	7.52	57.4	24.0	25.1	52.0	<3.0	0.280	2.70	29.8
VA20A4369-004	WQ31	Surface		4/1/2020	7.46	59.1	25.6	25.8	53.0	<3.0	0.260	2.20	33.3
VA20A6356-005	WQ31	Surface		5/11/2020	6.94	23.6	12.0	12.0	53.0	<3.0	1.28	3.10	9.50
VA20A7672-005	WQ31	Surface	Dup	6/2/2020	6.79	27.6	12.7	13.2	38.0	<3.0	0.710	2.60	13.1
VA20A7672-001	WQ31	Surface		6/2/2020	6.74	27.2	12.8	13.4	43.0	<3.0	0.590	2.60	12.8
VA20A9918-004	WQ31	Surface		7/6/2020	7.17	31.6	14.6	15.5	42.0	<3.0	0.740	3.20	15.4
VA20B2426-002	WQ31	Surface		8/10/2020	7.49	40.9	18.3	18.8	56.0	<3.0	0.710	2.50	19.9
VA20B4313-004	WQ31	Surface	Dup	9/1/2020	7.52	49.4	21.2	21.0	50.0	3.00	0.460	2.70	24.1
VA20B4313-002	WQ31	Surface		9/1/2020	7.51	48.9	21.7	21.0	44.0	<3.0	0.470	2.70	24.8
VA20B7624-005	WQ31	Surface		10/6/2020	7.47	50.9	23.9	21.5	53.0	<3.0	0.440	2.10	24.5
VA20C0197-001	WQ31	Surface		11/4/2020	7.12	27.9	13.6	13.6	51.0	<3.0	1.50	3.50	10.4
	WQ4	Surface		5/17/2011	7.02	46.0	18.6	18.9	20.0	< 2	1.90	-	14.0
	WQ4	Surface		5/24/2011	6.89	42.0	16.6	18.0	76.0	< 2	1.10	-	10.0
	WQ4	Surface		5/30/2011	6.77	36.0	13.6	14.3	60.0	< 2	0.700	-	7.00
	WQ4	Surface		6/6/2011	6.84	32.0	12.4	12.5	52.0	< 2	0.500	-	7.00
	WQ4	Surface		6/13/2011	6.83	34.0	13.4	13.7	36.0	< 2	0.500	-	8.00
	WQ4	Surface		7/18/2011	6.94	39.0	15.9	16.9	40.0	< 2	0.500	-	12.0
	WQ4	Surface		8/15/2011	7.32	44.0	19.0	20.6	28.0	5.00	1.60	-	17.0
	WQ4	Surface		9/19/2011	7.22	61.0	22.6	23.0	56.0	17.0	3.90	-	28.0
	WQ4	Surface		10/17/2011	7.08	48.0	20.1	20.9	28.0	8.00	1.50	-	16.0
	WQ4	Surface		11/14/2011	7.02	47.0	18.6	19.0	52.0	5.00	1.50	-	14.0

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Physical Tests								
					pH	Conductivity	Hardness (as CaCO ₃)	Hardness, Total (as CaCO ₃)	Total Dissolved	Total Suspended	Turbidity	Acidity (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)
					pH units	µS/cm	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L
	WQ4	Surface	Dup	5/15/2012	7.06	44.0	-	-	-	10.0	15.0	-	11.0
	WQ4	Surface		5/15/2012	6.94	44.0	17.6	19.8	28.0	8.00	16.0	-	10.0
	WQ4	Surface		5/23/2012	7.02	46.0	16.7	17.5	68.0	6.00	7.40	-	8.00
	WQ4	Surface		5/28/2012	7.18	44.0	14.8	14.9	48.0	< 2	2.40	-	8.00
	WQ4	Surface		6/4/2012	7.11	41.0	15.0	15.3	60.0	3.00	2.30	-	9.00
	WQ4	Surface		6/11/2012	6.87	41.0	15.9	16.3	52.0	< 2	1.00	-	13.0
	WQ4	Surface		6/18/2012	7.22	44.0	15.7	15.8	60.0	< 2	0.600	-	15.0
	WQ4	Surface		7/16/2012	7.43	50.0	20.1	20.9	40.0	3.00	2.20	-	23.0
	WQ4	Surface		8/13/2012	7.48	58.0	24.7	24.7	56.0	< 2	1.40	-	25.0
	WQ4	Surface		9/17/2012	7.41	61.0	25.0	25.1	32.0	< 2	1.40	-	5.00
	WQ4	Surface		10/16/2012	7.32	77.0	31.6	35.1	48.0	17.0	22.0	-	21.0
	WQ4	Surface		11/12/2012	7.37	98.0	35.6	36.8	84.0	< 2	1.50	-	24.0
	WQ4	Surface		12/10/2012	7.50	131	53.5	54.5	104	22.0	3.10	-	29.0
	WQ4	Surface		5/14/2013	6.73	49.0	16.0	16.0	56.0	2.00	3.30	-	9.00
	WQ4	Surface		5/21/2013	6.78	61.0	17.2	18.0	60.0	< 2	1.60	-	10.0
	WQ4	Surface		5/28/2013	7.10	54.0	22.3	22.3	60.0	< 2	1.30	-	10.0
	WQ4	Surface		6/4/2013	7.08	57.0	20.3	20.4	36.0	< 2	1.00	-	11.0
	WQ4	Surface		6/11/2013	7.05	65.0	23.5	23.7	60.0	< 2	0.900	-	13.0
	WQ4	Surface		6/18/2013	7.03	59.0	21.2	22.6	76.0	< 2	1.00	-	13.0
L1925102-1	WQ4	Surface		5/9/2017	6.81	39.3	18.2	-	67.0	3.20	1.40	5.60	9.60
L1961670-1	WQ4	Surface		7/18/2017	7.29	74.8	29.9	-	63.0	<3.0	0.240	2.20	20.7
L2011329-1	WQ4	Surface		10/19/2017	7.29	98.9	39.6	-	88.0	<3.0	0.360	2.80	16.0
L2060101-1	WQ4	Surface		2/22/2018	7.63	128	47.7	-	111	4.00	0.490	1.80	21.8
L2102737-1	WQ4	Surface		5/28/2018	7.03	38.7	15.8	-	56.0	4.00	0.290	2.50	9.30
L2144658-3	WQ4	Surface		8/8/2018	7.40	66.6	26.2	-	65.0	<3.0	0.280	2.30	22.3
L2204086-2	WQ4	Surface		11/28/2018	7.64	51.2	19.9	-	55.0	<3.0	0.380	2.60	11.4
L2233329-1	WQ4	Surface		2/13/2019	7.05	55.9	24.0	-	52.0	6.50	1.13	4.00	17.0
L2275791-2	WQ4	Surface	Dup	5/16/2019	7.03	55.8	22.1	-	64.0	<3.0	0.370	3.00	12.0
L2275791-1	WQ4	Surface		5/16/2019	7.03	53.6	20.1	-	74.0	3.60	0.350	3.10	11.7
L2329543-1	WQ4	Surface		8/13/2019	7.49	76.5	31.8	-	82.0	<3.0	0.400	2.20	26.3
L2378996-2	WQ4	Surface		11/5/2019	7.25	72.6	29.4	-	65.0	<3.0	0.370	3.30	26.1
VA20A2211-002	WQ4	Surface		2/20/2020	7.62	134	50.6	53.3	97.0	10.3	0.760	2.40	27.7
VA20A6810-002	WQ4	Surface		5/19/2020	6.80	41.1	17.3	17.0	48.0	<3.0	0.220	4.20	10.0
VA20B2212-003	WQ4	Surface		8/6/2020	7.41	93.3	40.9	40.6	70.0	3.00	0.450	2.80	29.9
VA20C1415-002	WQ4	Surface		11/19/2020	7.13	74.8	26.1	28.1	57.0	<3.0	0.370	4.20	16.6
	WQ5	Surface	Dup	5/17/2011	7.03	37.0	-	-	-	11.0	2.90	-	13.0
	WQ5	Surface		5/17/2011	7.07	37.0	17.0	17.2	20.0	7.00	3.90	-	10.0
	WQ5	Surface		5/25/2011	6.91	27.0	9.90	11.0	72.0	5.00	1.80	-	7.00
	WQ5	Surface		5/31/2011	6.78	27.0	8.70	9.20	72.0	2.00	0.800	-	6.00
	WQ5	Surface		6/7/2011	6.90	25.0	8.80	8.80	48.0	4.00	1.70	-	7.00
	WQ5	Surface		6/14/2011	6.95	26.0	9.40	9.60	< 4	< 2	0.900	-	8.00
	WQ5	Surface		7/19/2011	7.08	33.0	13.7	14.2	60.0	< 2	0.400	-	12.0
	WQ5	Surface		8/16/2011	7.36	40.0	16.8	18.2	28.0	< 2	1.00	-	18.0
	WQ5	Surface		9/20/2011	7.45	68.0	28.6	28.9	72.0	< 2	1.40	-	33.0

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Physical Tests								
					pH	Conductivity	Hardness (as CaCO ₃)	Hardness, Total (as CaCO ₃)	Total Dissolved	Total Suspended	Turbidity	Acidity (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)
					pH units	µS/cm	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L
	WQ5	Surface		10/18/2011	7.23	52.0	22.7	23.6	40.0	< 2	0.900	-	25.0
	WQ5	Surface		11/15/2011	7.15	55.0	23.5	23.9	56.0	2.00	0.600	-	26.0
	WQ5	Surface		12/12/2011	7.38	69.0	31.4	31.5	56.0	7.00	2.30	-	33.0
	WQ5	Surface		5/14/2012	7.23	33.0	11.4	12.5	12.0	23.0	2.70	-	12.0
	WQ5	Surface		5/22/2012	7.04	28.0	10.1	10.8	60.0	9.00	0.900	-	11.0
	WQ5	Surface		5/29/2012	7.14	26.0	9.40	9.50	24.0	3.00	1.30	-	9.00
	WQ5	Surface		6/5/2012	7.07	26.0	10.3	10.6	48.0	< 2	1.00	-	11.0
	WQ5	Surface		6/12/2012	6.96	27.0	11.2	11.4	52.0	< 2	0.800	-	12.0
	WQ5	Surface		6/19/2012	7.27	30.0	12.0	12.1	36.0	< 2	0.900	-	12.0
	WQ5	Surface		7/17/2012	7.46	43.0	17.6	18.1	76.0	< 2	0.400	-	26.0
	WQ5	Surface		8/14/2012	7.56	50.0	21.0	21.0	56.0	< 2	0.300	-	24.0
	WQ5	Surface		9/18/2012	7.56	61.0	26.2	26.5	64.0	< 2	1.20	-	30.0
	WQ5	Surface		10/15/2012	7.02	75.0	31.9	32.7	52.0	< 2	0.600	-	38.0
	WQ5	Surface		11/13/2012	7.56	61.0	27.3	28.1	48.0	< 2	0.700	-	31.0
	WQ5	Surface		1/13/2013	7.38	98.0	43.3	44.2	96.0	4.00	3.30	-	50.0
	WQ5	Surface		4/15/2013	7.15	56.0	23.1	23.7	52.0	< 2	0.900	-	24.0
	WQ5	Surface		5/13/2013	6.75	24.0	9.80	9.80	48.0	5.00	1.80	-	7.00
	WQ5	Surface		5/22/2013	6.95	27.0	10.4	10.7	88.0	2.00	1.10	-	11.0
	WQ5	Surface		5/27/2013	7.08	28.0	13.2	13.2	72.0	< 2	0.900	-	9.00
	WQ5	Surface		6/6/2013	6.99	26.0	12.0	12.2	16.0	< 2	1.10	-	9.00
	WQ5	Surface		6/10/2013	7.03	29.0	13.0	13.0	40.0	< 2	1.70	-	11.0
	WQ5	Surface		6/17/2013	7.02	29.0	12.3	13.1	92.0	2.00	2.80	-	11.0
	WQ5	Surface		4/13/2014	7.09	66.0	28.6	-	108	<2	0.900	-	33.0
	WQ5	Surface		7/2/2014	7.16	41.0	18.7	-	56.0	<2	0.500	-	17.0
	WQ5	Surface		9/24/2014	7.66	106	51.2	-	72.0	<2	0.600	-	54.0
	WQ5	Surface		12/8/2014	7.23	88.0	37.1	-	44.0	<2	0.800	-	33.0
L1812856-8	WQ5	Surface		8/10/2016	7.54	46.3	18.6	-	51.0	<3.0	0.430	2.00	24.2
L1815654-8	WQ5	Surface	Dup	8/16/2016	7.24	55.0	21.6	-	52.0	<3.0	0.460	2.40	28.4
L1815654-6	WQ5	Surface		8/16/2016	7.51	51.0	21.9	-	46.0	<3.0	0.460	2.90	26.0
L1819041-9	WQ5	Surface		8/23/2016	7.44	53.4	23.0	-	61.0	<3.0	0.530	2.00	27.9
L1823224-1	WQ5	Surface	Dup	8/31/2016	7.37	44.0	19.3	-	47.0	<3.0	0.480	2.60	22.2
L1823224-8	WQ5	Surface		8/31/2016	7.36	43.9	19.2	-	46.0	<3.0	0.510	2.40	22.0
L1826303-4	WQ5	Surface		9/7/2016	7.27	41.9	16.8	-	55.0	<3.0	0.560	2.70	21.7
L1925486-4	WQ5	Surface		5/10/2017	7.30	39.1	17.8	-	67.0	8.50	2.66	2.80	15.7
L1962414-2	WQ5	Surface		7/19/2017	7.74	52.3	21.4	-	70.0	<3.0	0.340	2.20	26.1
L1988190-2	WQ5	Surface		9/6/2017	7.68	65.3	28.6	-	83.0	<3.0	1.01	2.30	33.6
L2010514-2	WQ5	Surface		10/18/2017	7.41	36.0	15.2	-	48.0	<3.0	1.32	2.50	14.9
L2060442-2	WQ5	Surface		2/23/2018	7.76	80.8	35.8	-	67.0	<3.0	0.780	3.00	42.1
L2103632-2	WQ5	Surface		5/29/2018	7.49	41.9	18.2	-	60.0	3.80	1.46	2.70	21.2
L2143640-1	WQ5	Surface		8/7/2018	7.79	75.4	33.0	-	76.0	<3.0	1.22	1.60	41.1
L2204508-1	WQ5	Surface		11/29/2018	7.51	55.7	24.6	-	59.0	<3.0	0.770	2.70	28.2
L2232772-2	WQ5	Surface		2/12/2019	7.71	94.4	34.1	-	60.0	<3.0	0.830	2.90	49.4
L2273497-3	WQ5	Surface		5/13/2019	7.19	33.1	14.0	-	50.0	8.20	1.92	2.90	13.3
L2328474-2	WQ5	Surface		8/12/2019	7.40	41.0	18.3	-	56.0	5.80	1.34	2.30	20.7

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LabID	Site	Depth	QAQC	Date	Physical Tests								
					pH	Conductivity	Hardness (as CaCO ₃)	Hardness, Total (as CaCO ₃)	Total Dissolved	Total Suspended	Turbidity	Acidity (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)
					pH units	µS/cm	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L
L2385426-2	WQ5	Surface		11/18/2019	7.18	32.6	14.3	-	54.0	<3.0	1.36	3.10	11.7
VA20A1830-001	WQ5	Surface		2/12/2020	7.70	74.7	29.9	31.2	52.0	3.00	0.950	2.20	37.3
VA20A6574-002	WQ5	Surface		5/14/2020	6.95	26.6	11.7	12.4	48.0	4.20	0.790	2.90	10.2
VA20B2692-001	WQ5	Surface		8/12/2020	7.76	79.6	34.8	34.5	72.0	<3.0	0.680	2.10	38.9
VA20C1166-002	WQ5	Surface		11/17/2020	7.39	54.7	22.2	23.7	61.0	<3.0	1.20	3.30	24.4
	WQ6	Surface		5/17/2011	7.01	33.0	15.4	15.4	52.0	< 2	6.90	-	12.0
	WQ6	Surface		5/24/2011	6.97	30.0	11.1	12.1	64.0	3.00	2.60	-	8.00
	WQ6	Surface		5/30/2011	6.85	26.0	9.50	10.1	40.0	3.00	1.50	-	7.00
	WQ6	Surface		6/6/2011	7.03	27.0	9.80	9.90	12.0	2.00	0.800	-	9.00
	WQ6	Surface		6/13/2011	7.09	29.0	10.3	10.7	12.0	< 2	0.700	-	10.0
	WQ6	Surface		7/18/2011	7.11	32.0	12.7	13.8	64.0	< 2	0.900	-	12.0
	WQ6	Surface	Dup	8/15/2011	7.31	38.0	-	-	-	< 2	0.900	-	16.0
	WQ6	Surface		8/15/2011	7.32	37.0	14.4	15.9	24.0	< 2	1.20	-	16.0
	WQ6	Surface		9/19/2011	7.24	48.0	18.6	18.8	20.0	< 2	1.10	-	23.0
	WQ6	Surface		10/17/2011	7.16	42.0	16.9	17.9	20.0	< 2	1.00	-	18.0
	WQ6	Surface		11/14/2011	7.10	47.0	18.2	18.4	80.0	2.00	1.00	-	22.0
	WQ6	Surface		4/17/2012	7.55	55.0	22.8	23.1	56.0	2.00	3.30	-	26.0
	WQ6	Surface		5/15/2012	7.11	29.0	12.4	13.4	36.0	4.00	3.80	-	10.0
	WQ6	Surface		5/23/2012	7.14	31.0	12.2	12.5	40.0	< 2	2.60	-	12.0
	WQ6	Surface		5/28/2012	7.29	31.0	11.4	11.5	20.0	2.00	1.70	-	12.0
	WQ6	Surface		6/4/2012	7.23	30.0	11.3	11.6	48.0	< 2	1.30	-	12.0
	WQ6	Surface		6/11/2012	6.92	29.0	10.7	10.9	48.0	< 2	1.00	-	16.0
	WQ6	Surface		6/18/2012	7.49	40.0	11.3	11.2	44.0	< 2	0.800	-	17.0
	WQ6	Surface		7/16/2012	7.43	39.0	14.6	15.1	40.0	< 2	0.600	-	23.0
	WQ6	Surface		8/13/2012	7.50	45.0	17.9	17.9	44.0	< 2	0.700	-	21.0
	WQ6	Surface		9/17/2012	7.40	53.0	20.5	20.6	40.0	< 2	1.20	-	6.00
	WQ6	Surface		10/16/2012	7.48	52.0	20.8	21.2	56.0	< 2	1.20	-	25.0
	WQ6	Surface		11/12/2012	7.48	51.0	21.0	21.6	40.0	< 2	1.00	-	27.0
	WQ6	Surface		12/10/2012	7.45	58.0	24.8	24.8	44.0	< 2	1.10	-	29.0
	WQ6	Surface		1/15/2013	7.20	56.0	22.7	22.7	56.0	< 2	1.20	-	26.0
	WQ6	Surface		2/13/2013	7.40	59.0	22.7	22.7	8.00	< 2	0.700	-	28.0
	WQ6	Surface		3/12/2013	7.32	59.0	25.8	25.8	28.0	< 2	0.800	-	26.0
	WQ6	Surface		4/16/2013	7.29	52.0	18.5	19.4	28.0	< 2	0.900	-	21.0
	WQ6	Surface		5/14/2013	6.98	29.0	11.5	11.5	48.0	3.00	1.50	-	10.0
	WQ6	Surface		5/21/2013	7.01	32.0	11.2	12.1	40.0	< 2	1.10	-	12.0
	WQ6	Surface		5/28/2013	7.17	31.0	13.6	13.6	16.0	2.00	1.40	-	10.0
	WQ6	Surface		6/4/2013	6.90	34.0	12.5	12.6	44.0	< 2	1.60	-	12.0
	WQ6	Surface		6/11/2013	7.16	36.0	13.1	13.3	40.0	< 2	1.20	-	12.0
	WQ6	Surface		6/18/2013	6.85	32.0	13.0	13.1	72.0	< 2	1.70	-	13.0
	WQ7	Surface		4/19/2011	8.14	131	57.4	59.7	112	< 2	0.700	-	67.0
	WQ7	Surface		5/17/2011	7.40	47.0	20.0	22.4	48.0	11.0	24.0	-	21.0
	WQ7	Surface		5/24/2011	7.25	43.0	18.1	20.8	92.0	38.0	22.0	-	13.0
	WQ7	Surface		5/30/2011	7.17	40.0	16.9	18.6	40.0	37.0	14.0	-	13.0
	WQ7	Surface		6/6/2011	7.19	34.0	14.1	15.0	48.0	41.0	9.80	-	12.0

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Physical Tests								
					pH	Conductivity	Hardness (as CaCO ₃)	Hardness, Total (as CaCO ₃)	Total Dissolved	Total Suspended	Turbidity	Acidity (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)
					pH units	µS/cm	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L
	WQ7	Surface		6/13/2011	7.27	40.0	16.1	16.8	< 4	9.00	5.60	-	15.0
	WQ7	Surface		7/18/2011	7.41	56.0	25.2	26.6	96.0	9.00	2.20	-	27.0
	WQ7	Surface		8/15/2011	7.66	79.0	34.1	37.3	44.0	6.00	1.90	-	40.0
	WQ7	Surface	Dup	9/19/2011	7.58	110	-	-	-	< 2	0.900	-	54.0
	WQ7	Surface		9/19/2011	7.66	108	47.8	48.1	152	< 2	1.00	-	53.0
	WQ7	Surface	Dup	10/17/2011	7.58	90.0	-	-	-	< 2	0.800	-	43.0
	WQ7	Surface		10/17/2011	7.55	90.0	40.0	42.4	100	< 2	1.00	-	43.0
	WQ7	Surface		11/14/2011	7.51	98.0	43.1	43.6	72.0	2.00	1.00	-	47.0
	WQ7	Surface	Dup	12/13/2011	7.52	110	-	-	-	8.00	2.80	-	53.0
	WQ7	Surface		12/13/2011	7.40	105	50.6	50.9	76.0	11.0	4.40	-	50.0
	WQ7	Surface		1/12/2012	7.58	115	51.7	52.7	76.0	< 2	0.900	-	57.0
	WQ7	Surface	Dup	2/13/2012	7.88	126	-	-	-	< 2	1.00	-	62.0
	WQ7	Surface		2/13/2012	7.86	131	56.0	62.0	76.0	2.00	1.70	-	64.0
	WQ7	Surface		3/12/2012	7.95	120	53.0	57.6	72.0	< 2	0.700	-	58.0
	WQ7	Surface	Dup	4/17/2012	7.83	101	-	-	-	< 2	1.50	-	52.0
	WQ7	Surface		4/17/2012	7.89	105	52.2	53.2	96.0	< 2	1.60	-	52.0
	WQ7	Surface		5/15/2012	7.43	42.0	18.6	20.5	28.0	73.0	7.70	-	20.0
	WQ7	Surface		5/23/2012	7.40	45.0	19.7	20.6	60.0	26.0	11.0	-	17.0
	WQ7	Surface	Dup	5/28/2012	7.39	42.0	-	-	-	40.0	12.0	-	17.0
	WQ7	Surface		5/28/2012	7.45	40.0	16.6	16.7	28.0	37.0	13.0	-	17.0
	WQ7	Surface		6/4/2012	7.44	42.0	17.4	18.3	52.0	21.0	5.80	-	21.0
	WQ7	Surface		6/11/2012	7.11	39.0	16.6	17.2	52.0	12.0	5.00	-	23.0
	WQ7	Surface		6/18/2012	7.54	44.0	78.8	110	64.0	7.00	3.50	-	23.0
	WQ7	Surface	Dup	7/16/2012	7.65	75.0	-	-	84.0	4.00	1.10	-	43.0
	WQ7	Surface		7/16/2012	7.74	74.0	31.8	32.6	60.0	3.00	1.30	-	42.0
	WQ7	Surface	Dup	8/13/2012	7.86	88.0	-	-	76.0	2.00	1.60	-	44.0
	WQ7	Surface		8/13/2012	7.82	87.0	39.8	39.8	60.0	< 2	1.60	-	44.0
	WQ7	Surface		9/17/2012	7.83	108	50.8	51.0	92.0	< 2	1.30	-	61.0
	WQ7	Surface		10/16/2012	7.86	116	54.3	56.3	52.0	< 2	0.900	-	61.0
	WQ7	Surface	Dup	11/12/2012	7.77	113	-	-	112	< 2	0.900	-	60.0
	WQ7	Surface		11/12/2012	7.87	111	50.8	51.7	72.0	< 2	0.900	-	61.0
	WQ7	Surface		12/10/2012	7.82	124	59.5	59.5	88.0	< 2	1.20	-	65.0
	WQ7	Surface	Dup	1/15/2013	7.64	131	-	-	88.0	2.00	1.60	-	69.0
	WQ7	Surface		1/15/2013	7.66	131	63.0	65.0	84.0	5.00	3.80	-	68.0
	WQ7	Surface	Dup	2/13/2013	7.77	127	-	-	76.0	< 2	0.600	-	66.0
	WQ7	Surface		2/13/2013	7.78	128	59.1	59.1	68.0	3.00	0.700	-	66.0
	WQ7	Surface		3/12/2013	7.80	127	66.6	66.6	72.0	3.00	0.900	-	62.0
	WQ7	Surface	Dup	4/16/2013	7.74	118	-	-	52.0	< 2	0.900	-	54.0
	WQ7	Surface		4/16/2013	7.79	116	51.9	53.2	52.0	< 2	1.20	-	55.0
	WQ7	Surface		5/14/2013	7.16	37.0	16.5	16.6	56.0	< 2	5.30	-	14.0
	WQ7	Surface		5/21/2013	7.28	45.0	18.1	19.3	36.0	7.00	2.20	-	21.0
	WQ7	Surface		5/28/2013	7.40	39.0	21.2	21.2	44.0	15.0	2.40	-	15.0
	WQ7	Surface	Dup	6/4/2013	7.37	44.0	-	-	24.0	15.0	3.80	-	20.0
	WQ7	Surface		6/4/2013	7.35	44.0	20.9	21.2	20.0	14.0	4.10	-	18.0

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Physical Tests								
					pH	Conductivity	Hardness (as CaCO ₃)	Hardness, Total (as CaCO ₃)	Total Dissolved	Total Suspended	Turbidity	Acidity (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)
					pH units	µS/cm	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L
	WQ7	Surface		6/11/2013	7.46	55.0	24.2	25.3	80.0	6.00	1.90	-	23.0
	WQ7	Surface	Dup	6/18/2013	7.48	56.0	-	-	76.0	12.0	2.80	-	26.0
	WQ7	Surface		6/18/2013	7.46	56.0	24.6	26.7	40.0	10.0	3.50	-	25.0
	WQ7	Surface		4/13/2014	7.63	111	50.4	-	88.0	28.0	7.70	-	56.0
	WQ7	Surface		7/2/2014	7.51	77.0	37.4	-	68.0	6.00	0.700	-	38.0
	WQ7	Surface		9/24/2014	7.85	131	64.2	-	100	<2	1.00	-	65.0
	WQ7	Surface		12/9/2014	7.58	129	6.21	-	64.0	<2	0.500	-	60.0
L1812856-9	WQ7	Surface		8/10/2016	7.80	87.2	35.3	-	68.0	<3.0	0.520	1.80	42.9
L1815654-9	WQ7	Surface		8/16/2016	7.61	91.2	40.4	-	70.0	<3.0	0.540	2.20	49.1
L1819041-2	WQ7	Surface		8/23/2016	7.77	85.6	40.3	-	81.0	<3.0	0.580	2.00	44.8
L1823224-2	WQ7	Surface		8/31/2016	7.70	90.4	41.5	-	64.0	<3.0	0.390	2.40	44.4
L1826303-7	WQ7	Surface		9/7/2016	7.71	81.1	37.3	-	74.0	<3.0	0.550	2.20	43.7
L1913531-3	WQ7	Surface		4/12/2017	7.89	116	55.0	-	89.0	<3.0	0.660	2.00	62.2
L1926080-8	WQ7	Surface	Dup	5/11/2017	7.38	47.5	22.2	-	66.0	11.6	3.36	2.60	22.1
L1926080-4	WQ7	Surface		5/11/2017	7.40	47.4	22.7	-	70.0	12.4	3.43	2.60	21.9
L1939712-7	WQ7	Surface		6/7/2017	7.49	43.2	19.6	-	52.0	<3.0	1.01	2.30	21.4
L1962414-3	WQ7	Surface		7/19/2017	7.90	89.5	38.4	-	365	<3.0	0.430	2.10	44.6
L1984944-5	WQ7	Surface		8/30/2017	7.97	117	51.8	-	91.0	<3.0	0.620	2.00	61.5
L1988832-4	WQ7	Surface		9/9/2017	7.97	118	53.6	-	81.0	3.20	0.560	2.00	61.8
L2009845-2	WQ7	Surface		10/17/2017	8.00	87.8	37.6	-	63.0	12.6	4.70	1.90	43.3
L2020333-6	WQ7	Surface	Dup	11/7/2017	7.73	70.6	33.1	-	58.0	3.70	0.670	2.30	36.6
L2020333-2	WQ7	Surface		11/7/2017	7.64	71.8	33.0	-	73.0	<3.0	0.670	2.50	36.4
L2034610-2	WQ7	Surface		12/11/2017	7.61	82.1	37.2	-	68.0	<3.0	0.420	2.50	44.3
L2049678-1	WQ7	Surface		1/24/2018	7.89	102	47.2	-	71.0	<3.0	0.540	1.80	50.9
L2062480-2	WQ7	Surface		2/28/2018	7.89	121	52.2	-	82.0	<3.0	0.500	1.70	55.4
L2074294-1	WQ7	Surface		3/28/2018	7.93	118	46.6	-	80.0	4.60	0.560	2.30	59.6
L2081503-1	WQ7	Surface		4/17/2018	7.91	114	55.4	-	80.0	<3.0	0.470	1.60	62.2
L2097084-8	WQ7	Surface	Dup	5/16/2018	7.35	27.9	12.8	-	50.0	59.3	11.8	3.00	11.2
L2097084-1	WQ7	Surface		5/16/2018	7.33	28.3	12.5	-	50.0	46.6	8.84	2.40	11.4
L2104479-1	WQ7	Surface		5/30/2018	7.58	46.3	20.9	-	65.0	5.50	2.21	2.50	23.5
L2132128-7	WQ7	Surface	Dup	7/17/2018	7.83	88.1	39.3	-	75.0	<3.0	0.450	1.30	45.9
L2132128-1	WQ7	Surface		7/17/2018	7.89	88.6	38.5	-	76.0	<3.0	0.460	1.30	45.9
L2144782-2	WQ7	Surface		8/9/2018	7.96	96.9	43.7	-	76.0	<3.0	0.600	1.80	48.9
L2164448-4	WQ7	Surface	Dup	9/12/2018	8.06	108	52.4	-	85.0	3.80	1.23	1.40	57.6
L2164448-3	WQ7	Surface		9/12/2018	8.05	108	51.1	-	82.0	<3.0	0.490	1.20	56.8
L2187638-4	WQ7	Surface	Dup	10/24/2018	7.90	90.6	41.5	-	74.0	<3.0	0.430	2.10	48.0
L2187638-3	WQ7	Surface		10/24/2018	7.90	90.7	40.0	-	80.0	<3.0	0.410	2.10	47.9
L2203408-2	WQ7	Surface		11/27/2018	7.74	77.1	32.2	-	63.0	<3.0	1.12	2.60	37.8
L2213684-1	WQ7	Surface		12/19/2018	7.82	85.1	39.7	-	55.0	<3.0	0.520	1.90	44.9
L2227101-6	WQ7	Surface	Dup	1/29/2019	7.97	104	47.3	-	74.0	<3.0	0.540	2.10	53.1
L2227101-1	WQ7	Surface		1/29/2019	7.89	102	47.6	-	71.0	<3.0	0.570	2.20	52.7
L2232050-4	WQ7	Surface		2/11/2019	7.76	111	48.5	-	79.0	<3.0	0.270	2.80	55.8
L2245144-4	WQ7	Surface		3/14/2019	7.95	124	55.9	-	78.0	<3.0	0.280	<1.0	59.8
L2256054-1	WQ7	Surface		4/9/2019	7.83	105	47.0	-	78.0	4.10	1.31	2.10	55.6

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LabID	Site	Depth	QAQC	Date	Physical Tests								
					pH	Conductivity	Hardness (as CaCO ₃)	Hardness, Total (as CaCO ₃)	Total Dissolved	Total Suspended	Turbidity	Acidity (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)
					pH units	µS/cm	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L
L2269368-6	WQ7	Surface	Dup	5/4/2019	7.58	51.9	24.5	-	56.0	19.0	4.14	2.10	24.4
L2269368-1	WQ7	Surface		5/4/2019	7.47	52.5	24.6	-	59.0	17.2	4.75	2.20	24.3
L2277964-4	WQ7	Surface		5/21/2019	7.49	35.1	15.8	-	63.0	76.0	18.3	2.10	14.6
L2282191-2	WQ7	Surface		5/28/2019	7.49	49.8	23.4	-	62.0	13.4	2.78	2.30	25.6
L2282975-1	WQ7	Surface		5/29/2019	7.57	48.7	23.9	-	47.0	12.3	2.81	2.60	26.0
L2286702-5	WQ7	Surface	Dup	6/4/2019	7.82	54.9	25.0	-	59.0	8.40	1.35	1.80	27.0
L2286702-1	WQ7	Surface		6/4/2019	7.77	59.6	25.1	-	60.0	6.40	1.51	2.30	28.4
L2313851-2	WQ7	Surface		7/18/2019	7.51	54.1	24.8	-	64.0	6.00	1.09	2.20	27.1
L2328474-3	WQ7	Surface		8/12/2019	7.63	58.8	27.8	-	67.0	5.20	1.29	2.30	31.0
L2349445-1	WQ7	Surface		9/16/2019	7.86	93.8	39.4	-	84.0	<3.0	0.440	2.00	46.8
L2371052-1	WQ7	Surface		10/22/2019	7.69	68.1	31.0	-	49.0	<3.0	1.03	2.30	35.1
L2388381-1	WQ7	Surface		11/25/2019	7.55	58.8	26.2	-	55.0	<3.0	0.880	2.70	30.6
VA19A0791-001	WQ7	Surface		12/17/2019	7.56	73.9	33.5	-	59.0	<3.0	0.610	2.20	37.0
VA20A0960-001	WQ7	Surface		1/27/2020	7.83	97.9	44.4	43.4	71.0	<3.0	0.360	2.30	47.8
VA20A2126-004	WQ7	Surface		2/19/2020	7.86	107	44.6	46.0	69.0	<3.0	0.500	2.10	55.8
VA20A3691-002	WQ7	Surface		3/18/2020	7.98	114	50.6	50.4	82.0	<3.0	0.270	3.20	61.2
VA20A4555-002	WQ7	Surface		4/7/2020	7.72	118	58.7	56.2	82.0	<3.0	0.290	2.10	61.7
VA20A6218-002	WQ7	Surface		5/7/2020	7.29	44.4	21.4	21.5	57.0	4.20	1.14	<2.0	19.6
VA20A6503-003	WQ7	Surface		5/13/2020	7.35	37.8	18.0	18.2	54.0	11.7	1.79	2.30	17.0
VA20A6869-001	WQ7	Surface		5/20/2020	7.17	32.9	16.0	15.1	45.0	11.8	2.19	2.30	14.2
VA20A7367-001	WQ7	Surface		5/28/2020	7.15	39.8	16.6	17.8	50.0	23.2	2.76	2.30	18.7
VA20A7672-004	WQ7	Surface		6/2/2020	6.91	41.9	18.1	19.2	46.0	5.80	1.54	2.20	20.4
VA20A9918-005	WQ7	Surface	Dup	7/6/2020	7.51	59.9	27.5	28.4	54.0	4.30	0.560	2.80	29.3
VA20A9918-001	WQ7	Surface		7/6/2020	7.53	59.4	27.1	28.2	56.0	4.20	0.610	2.70	29.8
VA20B2156-004	WQ7	Surface		8/5/2020	7.75	89.6	42.4	39.1	65.0	<3.0	0.400	2.00	43.5
VA20B2542-005	WQ7	Surface	Dup	8/11/2020	7.82	87.5	39.4	40.4	70.0	9.10	0.390	<2.0	43.3
VA20B2542-003	WQ7	Surface		8/11/2020	7.85	87.5	39.1	40.4	77.0	<3.0	0.310	<2.0	42.9
VA20B3218-001	WQ7	Surface		8/18/2020	7.75	89.3	40.5	41.9	81.0	7.10	0.450	2.60	43.7
VA20B3609-002	WQ7	Surface		8/24/2020	7.72	87.1	41.0	38.0	66.0	<3.0	0.410	2.10	42.0
VA20B4443-003	WQ7	Surface		9/2/2020	7.88	92.5	42.4	40.8	69.0	<3.0	0.350	<2.0	44.9
VA20B7624-001	WQ7	Surface		10/6/2020	7.83	101	45.8	43.8	80.0	<3.0	0.380	2.10	49.0
VA20C0298-001	WQ7	Surface		11/5/2020	7.44	48.0	23.7	22.4	62.0	9.80	1.88	2.60	24.4
	WQ8	Surface		4/19/2011	8.25	153	72.0	74.6	84.0	< 2	0.500	-	76.0
	WQ8	Surface		5/17/2011	8.05	146	67.7	67.7	96.0	3.00	1.30	-	69.0
	WQ8	Surface	Dup	5/24/2011	8.08	141	-	-	-	5.00	1.80	-	69.0
	WQ8	Surface		5/24/2011	8.15	146	65.4	70.2	120	5.00	1.60	-	69.0
	WQ8	Surface		5/30/2011	7.75	146	66.9	70.7	112	< 2	0.800	-	68.0
	WQ8	Surface		6/6/2011	7.96	140	63.2	64.4	88.0	4.00	1.40	-	65.0
	WQ8	Surface	Dup	6/13/2011	7.82	135	-	-	-	5.00	3.30	-	62.0
	WQ8	Surface		6/13/2011	7.81	134	61.0	63.1	96.0	6.00	3.50	-	63.0
	WQ8	Surface		7/18/2011	7.81	132	59.7	63.3	96.0	23.0	1.30	-	61.0
	WQ8	Surface		8/15/2011	7.93	135	62.2	67.7	68.0	2.00	1.40	-	65.0
	WQ8	Surface		9/19/2011	7.73	140	65.3	66.1	124	4.00	1.80	-	67.0
	WQ8	Surface		10/17/2011	7.78	145	71.3	72.8	104	16.0	50.0	-	70.0

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LabID	Site	Depth	QAQC	Date	Physical Tests								
					pH	Conductivity	Hardness (as CaCO ₃)	Hardness, Total (as CaCO ₃)	Total Dissolved	Total Suspended	Turbidity	Acidity (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)
					pH units	µS/cm	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L
	WQ8	Surface		11/14/2011	7.67	145	69.3	69.6	112	< 2	0.900	-	70.0
	WQ8	Surface		12/12/2011	7.76	157	74.1	76.7	88.0	38.0	13.0	-	74.0
	WQ8	Surface		1/12/2012	7.65	153	72.6	74.6	120	< 2	0.700	-	73.0
	WQ8	Surface		2/13/2012	7.94	165	78.1	79.1	100	3.00	2.20	-	80.0
	WQ8	Surface		3/12/2012	8.09	159	71.9	78.1	108	< 2	1.00	-	77.0
	WQ8	Surface		4/16/2012	8.00	132	66.7	68.3	92.0	5.00	0.900	-	66.0
	WQ8	Surface		5/14/2012	8.04	159	63.9	68.6	80.0	3.00	1.30	-	75.0
	WQ8	Surface		5/22/2012	7.97	145	64.8	68.2	100	4.00	1.50	-	70.0
	WQ8	Surface		5/28/2012	8.11	146	68.6	69.1	64.0	4.00	1.60	-	70.0
	WQ8	Surface		6/4/2012	8.04	149	65.0	67.6	92.0	4.00	1.80	-	75.0
	WQ8	Surface		6/11/2012	7.84	145	81.3	82.0	100	3.00	1.40	-	77.0
	WQ8	Surface		6/18/2012	8.07	147	64.0	66.4	96.0	4.00	1.20	-	75.0
	WQ8	Surface		7/16/2012	8.00	139	65.2	67.4	44.0	13.0	3.60	-	77.0
	WQ8	Surface		8/13/2012	8.09	141	71.8	71.8	108	< 2	1.40	-	71.0
	WQ8	Surface		9/17/2012	7.97	141	70.7	70.9	140	7.00	2.80	-	77.0
	WQ8	Surface		10/15/2012	7.91	146	72.2	74.9	80.0	10.0	8.80	-	200
	WQ8	Surface		11/13/2012	7.95	146	70.9	71.8	92.0	24.0	8.80	-	76.0
	WQ8	Surface		1/13/2013	7.77	162	81.0	82.7	124	7.00	2.90	-	83.0
	WQ8	Surface		2/12/2013	7.80	156	82.9	82.9	80.0	< 2	0.400	-	81.0
	WQ8	Surface	Dup	3/11/2013	7.88	153	-	-	104	< 2	0.700	-	79.0
	WQ8	Surface		3/11/2013	7.87	153	82.6	82.6	92.0	3.00	1.40	-	80.0
	WQ8	Surface		4/15/2013	7.66	123	53.3	55.9	60.0	4.00	1.90	-	57.0
	WQ8	Surface		5/13/2013	7.84	145	72.8	72.8	104	2.00	1.70	-	74.0
	WQ8	Surface		5/22/2013	7.56	173	81.3	83.1	240	2.00	2.00	-	89.0
	WQ8	Surface		5/27/2013	8.07	139	79.8	79.8	120	6.00	1.80	-	68.0
	WQ8	Surface		6/6/2013	7.89	138	68.3	69.8	60.0	2.00	1.60	-	67.0
	WQ8	Surface		6/10/2013	7.90	132	67.2	68.7	80.0	10.0	4.30	-	64.0
	WQ8	Surface		6/17/2013	7.92	132	60.7	66.0	84.0	3.00	2.10	-	62.0
	WQ8	Surface		4/13/2014	7.67	139	65.9	-	100	4.00	1.50	-	70.0
	WQ8	Surface		7/2/2014	7.81	135	69.6	-	96.0	3.00	1.00	-	66.0
	WQ8	Surface		9/24/2014	8.02	145	75.6	-	96.0	4.00	3.40	-	71.0
	WQ8	Surface	Dup	12/9/2014	7.79	167	80.8	-	116	<2	0.300	-	79.0
	WQ8	Surface		12/9/2014	7.77	163	82.8	-	104	<2	0.300	-	79.0
L1913531-6	WQ8	Surface		4/12/2017	8.09	126	63.1	-	91.0	3.50	1.03	1.60	65.7
L1926080-3	WQ8	Surface		5/11/2017	7.94	151	72.1	-	109	<3.0	0.690	2.10	72.2
L1939712-8	WQ8	Surface		6/7/2017	8.30	142	69.4	-	105	8.30	2.00	<1.0	71.6
L1962414-4	WQ8	Surface		7/19/2017	8.24	143	65.8	-	116	4.60	0.770	<1.0	71.4
L1984944-6	WQ8	Surface		8/30/2017	8.20	145	68.6	-	105	3.20	0.670	<1.0	73.1
L1987355-1	WQ8	Surface		9/5/2017	8.40	145	62.5	-	98.0	3.00	2.04	<1.0	73.8
L2009845-4	WQ8	Surface		10/17/2017	8.13	146	67.6	-	91.0	<3.0	0.830	1.50	74.1
L2020333-4	WQ8	Surface		11/7/2017	8.01	142	67.4	-	101	4.50	2.41	2.10	71.9
L2034610-1	WQ8	Surface		12/11/2017	7.87	154	72.0	-	103	<3.0	0.350	2.00	79.9
L2049224-5	WQ8	Surface	Dup	1/23/2018	8.22	162	80.6	-	104	<3.0	0.260	<1.0	77.4
L2049224-1	WQ8	Surface		1/23/2018	8.15	155	79.3	-	105	<3.0	0.260	<1.0	78.3

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Physical Tests								
					pH	Conductivity	Hardness (as CaCO ₃)	Hardness, Total (as CaCO ₃)	Total Dissolved	Total Suspended	Turbidity	Acidity (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)
					pH units	µS/cm	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L
L2057954-1	WQ8	Surface		2/15/2018	8.14	156	76.0	-	111	<3.0	0.340	1.30	78.8
L2073898-2	WQ8	Surface		3/27/2018	8.15	152	72.4	-	99.0	<3.0	0.370	1.10	78.2
L2081503-2	WQ8	Surface		4/17/2018	7.98	153	74.7	-	103	<3.0	0.230	1.20	78.5
L2096380-1	WQ8	Surface		5/15/2018	7.99	134	66.9	-	105	<3.0	1.76	1.50	68.2
L2104479-2	WQ8	Surface		5/30/2018	8.06	135	64.3	-	105	<3.0	0.920	1.20	69.2
L2132128-2	WQ8	Surface		7/17/2018	8.17	135	62.0	-	109	<3.0	1.13	<1.0	68.7
L2144782-1	WQ8	Surface		8/9/2018	8.35	139	66.4	-	109	3.80	1.65	<1.0	67.0
L2164448-2	WQ8	Surface		9/12/2018	8.28	136	74.2	-	102	4.60	0.550	<1.0	71.8
L2187638-2	WQ8	Surface		10/24/2018	8.06	140	65.4	-	106	<3.0	5.36	1.10	74.4
L2203408-3	WQ8	Surface		11/27/2018	8.04	147	65.3	-	100	<3.0	2.01	1.50	72.1
L2213684-6	WQ8	Surface	Dup	12/19/2018	7.98	146	68.9	-	93.0	<3.0	0.610	1.40	75.7
L2213684-2	WQ8	Surface		12/19/2018	7.96	141	67.9	-	92.0	<3.0	0.720	1.50	74.3
L2227101-2	WQ8	Surface		1/29/2019	8.13	158	78.0	-	111	<3.0	0.500	1.10	82.0
L2232050-5	WQ8	Surface		2/11/2019	7.83	159	75.4	-	89.0	<3.0	0.560	3.00	79.5
L2245144-1	WQ8	Surface		3/14/2019	7.93	157	77.3	-	109	<3.0	0.220	1.70	76.1
L2256054-2	WQ8	Surface		4/9/2019	7.91	125	59.8	-	86.0	<3.0	0.460	1.50	64.4
L2277964-1	WQ8	Surface		5/21/2019	8.11	142	63.7	-	108	3.00	0.890	1.70	73.1
L2286702-2	WQ8	Surface		6/4/2019	8.19	138	64.5	-	94.0	27.2	3.81	1.50	70.5
L2313851-3	WQ8	Surface		7/18/2019	8.08	136	63.6	-	99.0	<3.0	0.710	<1.0	68.5
L2328474-4	WQ8	Surface		8/12/2019	8.17	135	64.5	-	104	4.60	0.490	<1.0	69.8
L2349445-2	WQ8	Surface		9/16/2019	8.07	148	67.5	-	109	<3.0	0.470	1.30	72.8
L2371052-2	WQ8	Surface		10/22/2019	7.91	145	70.6	-	105	4.30	2.96	2.30	75.2
L2388381-2	WQ8	Surface		11/25/2019	7.86	144	69.4	-	90.0	<3.0	0.560	2.70	74.4
VA19A0791-002	WQ8	Surface		12/17/2019	7.86	150	72.2	-	103	<3.0	0.390	2.50	74.5
VA20A0960-002	WQ8	Surface		1/27/2020	7.86	157	77.2	72.3	107	<3.0	0.480	3.30	76.2
VA20A2126-002	WQ8	Surface		2/19/2020	8.04	163	69.1	74.0	87.0	<3.0	0.200	<2.0	81.0
VA20A3691-003	WQ8	Surface		3/18/2020	8.04	153	73.8	73.7	101	<3.0	0.200	3.80	82.3
VA20A4555-003	WQ8	Surface		4/7/2020	7.79	154	79.0	87.7	110	<3.0	0.320	2.00	81.2
VA20A6356-001	WQ8	Surface		5/11/2020	7.96	143	67.4	67.6	104	<3.0	0.960	<2.0	68.1
VA20A7797-004	WQ8	Surface		6/3/2020	7.95	138	67.9	67.8	104	<3.0	1.19	<2.0	72.7
VA20B0021-004	WQ8	Surface		7/7/2020	8.07	136	65.8	65.4	101	<3.0	0.570	<2.0	66.0
VA20B2156-005	WQ8	Surface		8/5/2020	8.72	136	69.2	69.9	91.0	<3.0	0.580	<2.0	65.6
VA20B4443-004	WQ8	Surface		9/2/2020	8.45	139	68.2	63.2	97.0	<3.0	0.980	<2.0	66.9
VA20B7624-002	WQ8	Surface		10/6/2020	8.07	141	65.9	66.0	100	<3.0	<0.10	<2.0	67.5
VA20C0298-002	WQ8	Surface		11/5/2020	7.89	136	66.8	64.0	96.0	10.2	3.26	2.80	68.9
	WQ9	Surface	Dup	3/30/2011	8.25	159	-	-	-	4.00	2.40	-	82.0
	WQ9	Surface		3/30/2011	8.23	157	73.0	74.3	92.0	3.00	1.50	-	82.0
	WQ9	Surface	Dup	4/19/2011	8.18	154	-	-	-	5.00	2.60	-	77.0
	WQ9	Surface		4/19/2011	8.17	155	72.6	74.7	80.0	4.00	2.20	-	76.0
	WQ9	Surface		5/17/2011	7.80	111	51.1	51.1	48.0	4.00	5.10	-	50.0
	WQ9	Surface		5/24/2011	7.83	103	47.9	50.0	96.0	4.00	3.80	-	47.0
	WQ9	Surface	Dup	5/30/2011	7.72	98.0	-	-	-	3.00	3.10	-	43.0
	WQ9	Surface		5/30/2011	7.70	98.0	45.7	47.4	76.0	4.00	2.90	-	43.0
	WQ9	Surface		6/6/2011	7.82	110	49.3	50.8	120	3.00	2.10	-	49.0

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Physical Tests								
					pH	Conductivity	Hardness (as CaCO ₃)	Hardness, Total (as CaCO ₃)	Total Dissolved	Total Suspended	Turbidity	Acidity (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)
					pH units	µS/cm	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L
	WQ9	Surface		6/13/2011	7.74	112	50.5	52.0	64.0	4.00	1.80	-	52.0
	WQ9	Surface		7/18/2011	7.67	108	51.4	52.4	96.0	5.00	0.600	-	50.0
	WQ9	Surface		8/15/2011	7.92	128	58.0	63.5	72.0	2.00	1.60	-	62.0
	WQ9	Surface		9/19/2011	7.63	134	61.9	62.3	132	< 2	2.10	-	64.0
	WQ9	Surface		10/17/2011	7.65	128	61.2	63.2	80.0	< 2	2.00	-	61.0
	WQ9	Surface		11/14/2011	7.64	141	65.4	66.0	96.0	4.00	2.10	-	68.0
	WQ9	Surface		12/12/2011	7.71	150	69.8	71.4	92.0	3.00	1.80	-	70.0
	WQ9	Surface		1/12/2012	7.62	151	71.6	74.6	108	15.0	3.30	-	72.0
	WQ9	Surface		2/13/2012	7.89	154	72.1	73.7	88.0	< 2	1.10	-	74.0
	WQ9	Surface		3/12/2012	8.10	155	67.7	74.5	96.0	2.00	1.20	-	74.0
	WQ9	Surface		4/17/2012	7.96	131	65.0	65.5	104	7.00	2.60	-	64.0
	WQ9	Surface		5/14/2012	7.98	125	51.0	53.8	84.0	11.0	3.30	-	60.0
	WQ9	Surface	Dup	5/22/2012	7.86	114	-	-	-	9.00	1.80	-	55.0
	WQ9	Surface		5/22/2012	7.88	113	49.4	52.1	84.0	10.0	2.20	-	54.0
	WQ9	Surface		5/28/2012	7.97	110	50.4	50.8	60.0	11.0	5.30	-	51.0
	WQ9	Surface		6/4/2012	7.90	125	52.3	54.0	84.0	6.00	3.40	-	61.0
	WQ9	Surface		6/11/2012	7.76	118	51.8	53.7	96.0	6.00	3.00	-	63.0
	WQ9	Surface		6/18/2012	8.01	124	54.3	55.0	88.0	5.00	2.60	-	63.0
	WQ9	Surface		7/16/2012	7.91	130	59.8	63.1	36.0	3.00	1.10	-	70.0
	WQ9	Surface		8/13/2012	7.97	135	67.8	67.8	92.0	2.00	1.40	-	67.0
	WQ9	Surface		9/17/2012	7.91	138	70.2	70.2	92.0	< 2	1.20	-	74.0
	WQ9	Surface		10/16/2012	7.87	140	68.2	71.1	40.0	4.00	2.20	-	72.0
	WQ9	Surface		11/12/2012	7.84	139	67.1	67.9	64.0	3.00	1.70	-	73.0
	WQ9	Surface	Dup	12/10/2012	7.80	148	-	-	80.0	< 2	1.10	-	77.0
	WQ9	Surface		12/10/2012	7.84	148	76.4	76.4	92.0	< 2	1.30	-	77.0
	WQ9	Surface		1/15/2013	7.63	153	78.3	78.6	128	< 2	1.10	-	79.0
	WQ9	Surface		2/13/2013	7.77	154	75.9	75.9	104	< 2	0.700	-	79.0
	WQ9	Surface		3/12/2013	7.83	150	79.1	79.1	76.0	< 2	0.900	-	72.0
	WQ9	Surface		4/16/2013	7.78	140	64.6	66.7	40.0	4.00	1.80	-	64.0
	WQ9	Surface		5/14/2013	7.72	106	54.7	54.7	96.0	10.0	3.60	-	55.0
	WQ9	Surface		5/21/2013	7.78	120	55.4	58.6	92.0	6.00	2.50	-	69.0
	WQ9	Surface	Dup	5/28/2013	7.83	104	-	-	88.0	6.00	17.0	-	50.0
	WQ9	Surface		5/28/2013	7.87	104	61.5	61.5	64.0	7.00	2.30	-	50.0
	WQ9	Surface		6/4/2013	7.84	115	55.4	56.6	60.0	12.0	3.30	-	56.0
	WQ9	Surface		6/11/2013	7.81	124	60.3	62.9	112	7.00	2.50	-	56.0
	WQ9	Surface		6/18/2013	7.78	115	51.1	54.2	84.0	5.00	2.50	-	54.0
	WQ9	Surface		4/13/2014	7.66	138	65.0	-	140	4.00	1.70	-	68.0
	WQ9	Surface	Dup	7/2/2014	7.69	126	65.9	-	96.0	<2	1.00	-	62.0
	WQ9	Surface		7/2/2014	7.72	128	65.1	-	64.0	<2	0.900	-	61.0
	WQ9	Surface		9/24/2014	7.88	150	74.4	-	84.0	<2	1.30	-	72.0
	WQ9	Surface		12/9/2014	7.75	151	75.5	-	52.0	<2	0.900	-	73.0
L1812856-10	WQ9	Surface		8/10/2016	8.26	138	63.0	-	96.0	<3.0	1.31	<1.0	69.1
L1815654-10	WQ9	Surface		8/16/2016	7.95	135	65.0	-	93.0	<3.0	1.18	1.10	71.6
L1819041-1	WQ9	Surface		8/23/2016	8.14	130	64.7	-	113	3.70	1.27	<1.0	69.0

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Physical Tests								
					pH	Conductivity	Hardness (as CaCO ₃)	Hardness, Total (as CaCO ₃)	Total Dissolved	Total Suspended	Turbidity	Acidity (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)
					pH units	µS/cm	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L
L1823224-3	WQ9	Surface		8/31/2016	7.87	133	65.3	-	96.0	<3.0	1.13	2.10	64.6
L1826303-6	WQ9	Surface	Dup	9/7/2016	7.90	123	60.4	-	98.0	<3.0	1.29	2.10	65.0
L1826303-10	WQ9	Surface		9/7/2016	7.72	82.0	37.9	-	80.0	<3.0	0.480	2.20	43.7
L1913531-7	WQ9	Surface		4/12/2017	7.98	125	61.5	-	94.0	6.70	2.73	1.90	63.5
L1926080-5	WQ9	Surface		5/11/2017	7.83	117	55.7	-	95.0	7.20	2.19	2.20	55.8
L1939712-9	WQ9	Surface		6/7/2017	8.13	121	57.6	-	100	7.90	1.89	<1.0	59.4
L1962414-5	WQ9	Surface		7/19/2017	8.09	135	61.8	-	103	<3.0	0.870	1.50	67.7
L1984944-7	WQ9	Surface		8/30/2017	8.02	144	66.7	-	107	<3.0	1.15	1.90	73.4
L1988832-5	WQ9	Surface		9/9/2017	8.22	141	66.6	-	95.0	<3.0	1.29	<1.0	71.5
L2009845-6	WQ9	Surface	Dup	10/17/2017	8.04	127	58.6	-	85.0	3.70	1.96	2.20	62.7
L2009845-3	WQ9	Surface		10/17/2017	8.04	127	57.5	-	80.0	<3.0	2.01	1.80	62.5
L2020333-3	WQ9	Surface		11/7/2017	7.93	121	57.4	-	110	4.70	2.23	2.10	63.1
L2034610-6	WQ9	Surface	Dup	12/11/2017	7.83	141	63.9	-	98.0	<3.0	0.680	2.90	71.4
L2034610-3	WQ9	Surface		12/11/2017	7.85	133	65.1	-	98.0	<3.0	0.850	2.30	71.1
L2049224-2	WQ9	Surface		1/23/2018	8.19	147	74.0	-	101	3.10	0.720	<1.0	73.0
L2057025-1	WQ9	Surface		2/13/2018	7.81	144	66.9	-	103	<3.0	1.08	2.80	72.3
L2074294-2	WQ9	Surface		3/28/2018	8.12	154	63.2	-	104	11.0	2.12	1.60	74.9
L2081503-3	WQ9	Surface		4/17/2018	7.91	152	70.3	-	107	6.90	0.940	1.30	78.1
L2097084-2	WQ9	Surface		5/16/2018	8.05	98.2	47.5	-	84.0	<3.0	2.12	1.20	50.0
L2104479-5	WQ9	Surface	Dup	5/30/2018	8.00	119	55.4	-	100	5.70	2.23	2.00	60.9
L2104479-3	WQ9	Surface		5/30/2018	7.96	120	56.3	-	100	5.30	1.84	2.20	59.8
L2132128-3	WQ9	Surface		7/17/2018	7.98	126	61.5	-	101	<3.0	1.33	1.10	64.1
L2144782-3	WQ9	Surface		8/9/2018	8.06	134	63.7	-	105	3.80	1.60	6.20	67.6
L2164448-5	WQ9	Surface		9/12/2018	8.13	130	65.7	-	99.0	<3.0	1.01	<1.0	69.1
L2187638-5	WQ9	Surface		10/24/2018	8.02	129	61.4	-	96.0	4.70	6.14	1.80	67.3
L2203408-4	WQ9	Surface		11/27/2018	7.98	130	59.0	-	92.0	<3.0	1.63	1.70	62.2
L2213684-3	WQ9	Surface		12/19/2018	7.95	133	63.2	-	85.0	<3.0	0.950	1.50	67.7
L2227101-3	WQ9	Surface		1/29/2019	8.09	145	70.6	-	106	<3.0	0.700	1.10	74.4
L2233329-3	WQ9	Surface		2/13/2019	7.98	143	70.9	-	98.0	<3.0	0.560	2.20	72.2
L2245144-3	WQ9	Surface		3/14/2019	8.01	151	72.0	-	101	<3.0	0.550	1.40	73.0
L2256054-3	WQ9	Surface		4/9/2019	7.87	124	56.8	-	90.0	4.70	1.25	2.20	61.8
L2274397-4	WQ9	Surface		5/14/2019	7.93	109	53.8	-	89.0	8.40	2.10	2.00	55.8
L2286702-3	WQ9	Surface		6/4/2019	8.10	128	58.0	-	92.0	8.80	2.18	2.20	62.8
L2313851-4	WQ9	Surface		7/18/2019	7.97	130	55.5	-	77.0	4.00	1.17	1.50	58.3
L2325935-3	WQ9	Surface		8/7/2019	8.05	121	56.5	-	91.0	<3.0	0.770	<1.0	60.3
L2349445-3	WQ9	Surface		9/16/2019	8.02	136	61.8	-	108	<3.0	1.25	1.50	66.4
L2371052-3	WQ9	Surface		10/22/2019	7.92	121	59.2	-	72.0	3.70	1.45	2.00	63.0
L2388381-3	WQ9	Surface		11/25/2019	7.85	124	60.2	-	84.0	<3.0	1.22	2.40	64.7
VA19A0791-003	WQ9	Surface		12/17/2019	7.85	132	63.7	-	98.0	<3.0	0.770	2.10	66.9
VA20A0960-005	WQ9	Surface	Dup	1/27/2020	7.97	147	71.6	66.4	97.0	<3.0	0.680	2.40	70.6
VA20A0960-003	WQ9	Surface		1/27/2020	7.96	147	70.7	66.2	97.0	<3.0	0.680	2.50	69.7
VA20A2211-003	WQ9	Surface		2/20/2020	8.06	147	68.6	68.9	103	<3.0	0.470	<2.0	71.9
VA20A3691-004	WQ9	Surface		3/18/2020	8.06	146	69.7	70.0	112	7.80	2.60	2.70	77.1
VA20A4555-004	WQ9	Surface		4/7/2020	7.77	145	73.5	75.4	108	12.4	4.32	<2.0	75.5

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Physical Tests								
					pH	Conductivity	Hardness (as CaCO ₃)	Hardness, Total (as CaCO ₃)	Total Dissolved	Total Suspended	Turbidity	Acidity (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)
					pH units	µS/cm	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L
VA20A6218-005	WQ9	Surface	Dup	5/7/2020	7.73	115	53.9	54.7	90.0	4.80	0.960	<2.0	54.5
VA20A6218-003	WQ9	Surface		5/7/2020	7.70	114	55.9	54.5	89.0	<3.0	1.15	<2.0	53.5
VA20A6503-004	WQ9	Surface		5/13/2020	7.91	111	53.6	52.8	97.0	5.50	1.25	<2.0	58.7
VA20A6869-006	WQ9	Surface	Dup	5/20/2020	7.78	103	49.9	47.6	87.0	6.20	1.42	<2.0	53.3
VA20A6869-002	WQ9	Surface		5/20/2020	7.77	103	49.3	49.2	88.0	5.80	1.59	2.00	52.4
VA20A7367-002	WQ9	Surface		5/28/2020	7.66	117	49.6	55.6	88.0	6.60	1.99	<2.0	61.3
VA20A7672-003	WQ9	Surface		6/2/2020	7.31	117	52.8	55.2	85.0	5.20	1.66	<2.0	56.8
VA20A9918-002	WQ9	Surface		7/6/2020	7.83	112	53.6	56.2	85.0	<3.0	0.920	<2.0	54.7
VA20B2156-006	WQ9	Surface		8/5/2020	8.31	132	65.5	61.8	94.0	3.20	1.11	<2.0	63.5
VA20B2426-001	WQ9	Surface		8/10/2020	8.36	130	59.2	62.1	101	<3.0	1.29	<2.0	62.7
VA20B3033-005	WQ9	Surface	Dup	8/17/2020	7.99	131	61.7	63.8	101	4.90	5.46	<2.0	65.3
VA20B3033-003	WQ9	Surface		8/17/2020	8.03	134	62.6	64.0	99.0	8.70	16.7	<2.0	65.3
VA20B3609-003	WQ9	Surface		8/24/2020	8.12	131	63.8	59.5	95.0	5.50	1.24	<2.0	62.1
VA20B4443-005	WQ9	Surface		9/2/2020	8.07	131	61.1	58.6	95.0	<3.0	0.940	<2.0	62.5
VA20B7624-003	WQ9	Surface		10/6/2020	8.04	134	63.0	60.7	98.0	<3.0	1.15	<2.0	63.2
VA20C0298-003	WQ9	Surface		11/5/2020	7.78	102	51.2	47.5	80.0	8.20	1.68	2.50	50.4

Notes:

"-" indicates parameter was not analyzed.

"<" value is below the detection limit

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Anions and Nutrients										
					Total Kjeldahl	Ammonia, Total (as N)	Bromide (Br)	Chloride (Cl)	Fluoride (F)	Nitrate (as N)	Nitrite (as N)	Orthophosphate-Dissolved	Phosphorus (P)-	Phosphorus Total	Sulfate (SO ₄)
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1989016-1	BI-09	Surface		9/7/2017	0.151	<0.0050	<0.050	<0.50	0.0280	0.0976	<0.0010	<0.0010	0.00210	-	1.83
L2049224-4	BI-09	Surface		1/23/2018	0.111	<0.0050	<0.050	<0.50	0.0210	0.0197	<0.0010	0.00160	0.00380	-	1.29
L2062480-1	BI-09	Surface		2/27/2018	0.125	<0.0050	<0.050	<0.50	0.0230	0.0317	<0.0010	0.00180	0.00470	-	1.58
L2073898-1	BI-09	Surface		3/27/2018	0.146	<0.0050	<0.050	<0.50	0.0250	0.0391	<0.0010	<0.0010	0.00370	-	1.48
L2081505-2	BI-09	Surface	Dup	4/16/2018	0.228	<0.0050	<0.050	<0.50	0.0240	0.0134	<0.0010	0.00160	0.00780	-	1.30
L2081505-1	BI-09	Surface		4/16/2018	0.188	<0.0050	<0.050	<0.50	0.0240	0.0137	<0.0010	0.00150	0.00760	-	1.30
L2096380-2	BI-09	Surface		5/15/2018	0.278	<0.0050	<0.050	<0.50	0.0210	<0.0050	<0.0010	<0.0010	0.0134	-	0.670
L2102737-3	BI-09	Surface		5/28/2018	0.227	<0.0050	<0.050	<0.50	0.0230	<0.0050	<0.0010	<0.0010	0.0107	-	0.860
L2132128-4	BI-09	Surface		7/17/2018	0.161	<0.0050	<0.050	<0.50	0.0260	0.00560	<0.0010	<0.0010	0.00520	-	1.16
L2144658-1	BI-09	Surface		8/8/2018	0.125	<0.0050	<0.050	<0.50	0.0250	0.0319	<0.0010	0.00180	0.00480	-	1.31
L2163669-1	BI-09	Surface		9/11/2018	0.0970	<0.0050	<0.050	<0.50	0.0290	0.0105	<0.0010	0.00150	0.00590	-	1.38
L2187638-1	BI-09	Surface		10/24/2018	0.143	<0.0050	<0.050	<0.50	0.0260	<0.0050	<0.0010	<0.0010	0.00310	-	1.29
L2204086-3	BI-09	Surface		11/28/2018	0.248	<0.0050	<0.050	<0.50	0.0230	<0.0050	<0.0010	0.00140	0.00970	-	1.27
L2213684-5	BI-09	Surface		12/19/2018	0.162	<0.0050	<0.050	<0.50	0.0250	0.0115	<0.0010	<0.0010	0.00460	-	1.47
L2227101-5	BI-09	Surface		1/29/2019	0.143	<0.0050	<0.050	<0.50	0.0230	0.0398	<0.0010	<0.0010	0.00520	-	1.40
L2233329-6	BI-09	Surface	Dup	2/13/2019	0.127	0.0229	<0.050	<0.50	0.0240	0.0545	<0.0010	0.00130	0.00500	-	1.78
L2233329-4	BI-09	Surface		2/13/2019	0.110	<0.0050	<0.050	<0.50	0.0260	0.0543	<0.0010	0.00120	0.00480	-	1.85
L2245144-5	BI-09	Surface		3/14/2019	0.118	<0.0050	<0.050	<0.50	0.0260	0.0777	<0.0010	<0.0010	0.00570	-	2.04
L2256054-5	BI-09	Surface		4/9/2019	0.349	<0.0050	<0.050	<0.50	0.0250	<0.0050	<0.0010	<0.0010	0.0137	-	1.15
L2282191-3	BI-09	Surface		5/28/2019	0.316	0.00680	<0.050	<0.50	0.0240	<0.0050	<0.0010	<0.0010	0.00680	-	0.880
L2285579-1	BI-09	Surface		6/3/2019	0.250	0.0120	<0.050	<0.50	0.0230	<0.0050	<0.0010	<0.0010	0.00620	-	0.950
L2313851-5	BI-09	Surface	Dup	7/18/2019	0.258	0.00580	<0.050	<0.50	0.0200	<0.0050	<0.0010	<0.0010	0.0114	-	0.590
L2313851-1	BI-09	Surface		7/18/2019	0.281	<0.0050	<0.050	<0.50	0.0240	0.00580	0.00100	<0.0010	0.0109	-	0.750
L2329543-3	BI-09	Surface		8/13/2019	0.225	0.00540	<0.050	0.800	0.0280	<0.0050	<0.0010	<0.0010	0.00690	-	0.650
L2350223-4	BI-09	Surface		9/17/2019	0.222	0.00610	<0.050	<0.50	0.0250	<0.0050	<0.0010	<0.0010	0.00440	-	0.930
L2371052-5	BI-09	Surface		10/22/2019	0.281	<0.0050	<0.050	<0.50	0.0260	<0.0050	<0.0010	<0.0010	0.00690	-	0.810
L2378996-1	BI-09	Surface		11/5/2019	0.248	0.00650	<0.050	<0.50	0.0230	<0.0050	<0.0010	<0.0010	0.00750	-	0.820
VA19A0726-005	BI-09	Surface		12/16/2019	0.179	0.0119	<0.050	<0.50	0.0240	0.0111	<0.0010	<0.0010	0.00560	-	1.09
VA20A2126-001	BI-09	Surface		2/19/2020	0.146	<0.0050	<0.050	<0.50	0.0220	0.0366	<0.0010	0.00140	0.00460	-	1.57
VA20A7202-005	BI-09	Surface	Dup	5/26/2020	0.206	<0.0050	<0.050	<0.50	0.0250	<0.0050	<0.0010	0.00220	0.0112	-	0.660
VA20A7202-002	BI-09	Surface		5/26/2020	0.224	<0.0050	<0.050	<0.50	0.0220	<0.0050	<0.0010	<0.0010	0.00820	-	0.660
VA20B2212-001	BI-09	Surface		8/6/2020	0.274	<0.0050	<0.050	<0.50	0.0240	<0.0050	<0.0010	<0.0010	0.0153	-	0.630
VA20C0197-002	BI-09	Surface		11/4/2020	0.317	<0.0050	<0.050	<0.50	0.0240	<0.0050	<0.0010	0.00210	0.00850	-	0.720
L1989016-2	BI-12	Surface		9/7/2017	0.179	<0.0050	<0.050	<0.50	0.0260	<0.0050	<0.0010	0.00160	0.00640	-	0.410
L1762266-1	BI-13	Surface		4/27/2016	0.210	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	0.00700	-	1.40
L1764648-4	BI-13	Surface		5/3/2016	0.187	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	0.00100	0.00510	-	1.28
L1767107-1	BI-13	Surface		5/9/2016	0.150	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	1.46
L1770672-2	BI-13	Surface		5/16/2016	0.153	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	0.00150	0.00240	-	1.63
L1774541-4	BI-13	Surface	Dup	5/25/2016	0.125	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	0.00130	0.00420	-	1.59
L1774541-6	BI-13	Surface		5/25/2016	0.107	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	0.00190	<0.0020	-	1.60
L1788643-4	BI-13	Surface		6/22/2016	0.100	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	0.00160	0.00360	-	1.31
L1808945-4	BI-13	Surface		8/3/2016	0.101	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	0.00190	0.00290	-	1.35
L1812856-4	BI-13	Surface	Dup	8/10/2016	0.126	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	0.00180	0.00360	-	1.18
L1812856-6	BI-13	Surface		8/10/2016	0.123	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	0.00190	0.00360	-	1.18

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Anions and Nutrients										
					Total Kjeldahl	Ammonia, Total (as N)	Bromide (Br)	Chloride (Cl)	Fluoride (F)	Nitrate (as N)	Nitrite (as N)	Orthophosphate-Dissolved	Phosphorus (P)-	Phosphorus Total	Sulfate (SO ₄)
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1815654-4	BI-13	Surface		8/16/2016	0.0760	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	0.00190	0.00300	-	1.35
L1819041-7	BI-13	Surface		8/23/2016	0.171	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	0.00240	0.00510	-	1.10
L1823224-7	BI-13	Surface		8/31/2016	0.111	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	0.00400	-	1.18
L1826303-1	BI-13	Surface		9/7/2016	0.143	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	0.00150	0.00430	-	1.18
L1988832-6	BI-13	Surface		9/9/2017	<0.050	<0.0050	<0.050	<0.50	0.0210	0.00910	<0.0010	0.00290	0.00370	-	2.30
	WQ1	Surface		5/17/2011	0.260	< 0.02	-	0.400	0.0300	0.00700	< 0.003	< 0.003	-	0.0210	1.90
	WQ1	Surface		5/24/2011	0.340	< 0.02	-	1.20	0.0300	0.00700	< 0.003	< 0.003	-	0.0140	1.50
	WQ1	Surface		5/30/2011	0.710	< 0.02	-	< 0.1	0.0400	0.00800	0.0110	< 0.003	-	0.0100	2.80
	WQ1	Surface	Dup	6/6/2011	0.610	< 0.02	-	0.300	0.0400	0.0560	< 0.003	< 0.003	-	0.00900	2.10
	WQ1	Surface		6/6/2011	0.460	< 0.02	-	0.200	0.0300	0.00600	< 0.003	< 0.003	-	0.0100	1.60
	WQ1	Surface		6/13/2011	0.240	< 0.02	-	0.100	0.0300	< 0.005	< 0.003	< 0.003	-	0.00900	1.10
	WQ1	Surface		7/18/2011	0.100	0.0200	-	0.300	0.0400	0.0140	< 0.003	0.00500	-	0.00500	0.700
	WQ1	Surface		8/15/2011	0.0900	< 0.02	-	0.100	0.0200	< 0.005	< 0.003	< 0.003	-	0.00400	0.700
	WQ1	Surface		9/19/2011	0.190	< 0.02	-	0.100	0.0200	< 0.005	< 0.003	0.0260	-	0.00500	0.600
	WQ1	Surface		10/17/2011	< 0.08	< 0.02	-	0.200	0.0200	< 0.005	< 0.003	0.0140	-	0.00100	1.00
	WQ1	Surface		11/14/2011	< 0.08	< 0.01	-	0.400	0.0200	< 0.005	< 0.003	< 0.003	-	< 0.001	1.30
	WQ1	Surface		5/15/2012	0.310	< 0.02	-	1.10	0.0300	< 0.005	0.00300	0.0170	-	0.00700	1.80
	WQ1	Surface		5/23/2012	0.370	< 0.02	-	1.40	0.0700	< 0.005	0.00300	0.0180	-	0.0100	1.40
	WQ1	Surface		5/28/2012	0.240	0.0400	-	2.70	0.0500	0.0140	0.00400	< 0.003	-	0.00700	0.800
	WQ1	Surface		6/4/2012	0.200	< 0.02	-	0.600	0.0300	< 0.005	< 0.003	< 0.003	-	0.00600	1.20
	WQ1	Surface		6/11/2012	0.160	< 0.02	-	0.400	0.0300	< 0.005	0.00300	< 0.003	-	0.00400	0.600
	WQ1	Surface		6/18/2012	0.160	< 0.02	-	0.500	0.0300	0.00500	< 0.003	< 0.003	-	0.00300	0.700
	WQ1	Surface		7/16/2012	0.150	< 0.02	-	0.600	0.0500	0.0100	< 0.003	< 0.003	-	0.00400	0.800
	WQ1	Surface		8/13/2012	0.990	< 0.02	-	0.200	< 0.02	< 0.005	< 0.003	< 0.003	-	0.0600	< 0.5
	WQ1	Surface		9/17/2012	0.170	< 0.02	-	0.300	0.0500	< 0.005	< 0.003	< 0.003	-	0.00700	2.00
	WQ1	Surface		10/16/2012	0.220	< 0.02	-	0.300	0.0400	< 0.005	< 0.003	0.0390	-	0.0110	2.20
	WQ1	Surface		11/12/2012	0.120	< 0.02	-	0.300	0.0400	0.0310	< 0.003	< 0.003	-	0.00400	2.70
	WQ1	Surface		12/10/2012	< 0.08	< 0.02	-	0.500	0.0400	0.0110	0.0150	< 0.003	-	0.00400	3.90
	WQ1	Surface		5/14/2013	0.180	< 0.02	-	0.300	0.0400	0.00700	< 0.003	< 0.003	-	< 0.001	1.50
	WQ1	Surface	Dup	5/21/2013	0.250	< 0.02	-	0.200	0.0400	0.0170	< 0.003	< 0.003	-	0.0230	1.70
	WQ1	Surface		5/21/2013	0.160	< 0.02	-	0.200	0.0300	0.00800	< 0.003	< 0.003	-	0.0260	1.50
	WQ1	Surface		5/28/2013	0.0900	< 0.02	-	0.500	< 0.02	0.0370	< 0.003	< 0.003	-	< 0.001	0.700
	WQ1	Surface		6/4/2013	< 0.08	< 0.02	-	0.400	0.0200	0.0380	< 0.003	< 0.003	-	0.0140	0.700
	WQ1	Surface		6/11/2013	0.130	< 0.02	-	0.600	0.0200	0.0290	< 0.003	< 0.003	-	< 0.001	0.700
	WQ1	Surface		6/18/2013	0.110	< 0.02	-	0.400	0.0300	0.0320	< 0.003	< 0.003	-	< 0.001	1.00
VA20A2211-005	WQ1	Surface	Dup	2/20/2020	0.108	<0.0050	<0.050	<0.50	0.0210	0.00520	<0.0010	0.00220	0.00750	-	3.78
VA20A2211-001	WQ1	Surface		2/20/2020	0.0990	<0.0050	<0.050	<0.50	0.0210	0.00600	<0.0010	0.00210	0.00700	-	3.79
VA20A6810-001	WQ1	Surface		5/19/2020	0.298	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	0.00250	0.0160	-	0.630
VA20B2212-002	WQ1	Surface		8/6/2020	0.201	<0.0050	<0.050	<0.50	0.0230	<0.0050	<0.0010	0.00180	0.0132	-	1.46
VA20C1415-001	WQ1	Surface		11/19/2020	0.142	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	0.00130	0.00680	-	1.17
	WQ10	Surface		3/30/2011	0.190	< 0.02	-	0.200	0.0800	0.0330	< 0.003	< 0.003	-	< 0.001	3.70
	WQ10	Surface		4/19/2011	0.100	< 0.02	-	0.200	0.0700	0.00800	< 0.003	< 0.003	-	0.00900	3.30
	WQ10	Surface		5/17/2011	0.170	< 0.02	-	0.400	0.0500	0.0140	< 0.003	< 0.003	-	0.0180	1.90
	WQ10	Surface		5/25/2011	0.380	< 0.02	-	0.400	0.0500	0.0110	< 0.003	< 0.003	-	0.0110	1.90

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Anions and Nutrients										
					Total Kjeldahl	Ammonia, Total (as N)	Bromide (Br)	Chloride (Cl)	Fluoride (F)	Nitrate (as N)	Nitrite (as N)	Orthophosphate-Dissolved	Phosphorus (P)-	Phosphorus Total	Sulfate (SO ₄)
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ10	Surface		5/31/2011	0.640	< 0.02	-	< 0.1	0.0400	0.00600	0.0110	< 0.003	-	0.00900	2.40
	WQ10	Surface		6/7/2011	0.350	< 0.02	-	0.300	0.0400	0.0360	< 0.003	< 0.003	-	0.00700	1.70
	WQ10	Surface		6/14/2011	0.420	0.0200	-	0.200	0.0300	0.00600	< 0.003	< 0.003	-	0.00800	1.30
	WQ10	Surface		7/19/2011	< 0.08	< 0.02	-	0.300	0.0400	0.0100	< 0.003	< 0.003	-	0.00500	0.800
	WQ10	Surface		8/16/2011	0.210	< 0.02	-	0.200	0.0300	< 0.005	< 0.003	0.00700	-	0.00600	1.20
	WQ10	Surface		9/20/2011	0.210	< 0.02	-	0.200	0.0400	< 0.005	< 0.003	0.0390	-	0.00600	2.00
	WQ10	Surface		10/18/2011	0.110	< 0.02	-	0.200	0.0300	< 0.005	< 0.003	0.0480	-	0.00400	1.50
	WQ10	Surface		11/15/2011	< 0.08	< 0.01	-	0.200	0.0400	0.00700	< 0.003	< 0.003	-	< 0.001	2.10
	WQ10	Surface		12/12/2011	0.230	< 0.02	-	0.300	0.0600	0.0210	< 0.003	0.00300	-	< 0.001	2.20
	WQ10	Surface		1/12/2012	< 0.08	< 0.02	-	0.200	0.0500	0.0300	0.00500	0.00800	-	0.00700	2.70
	WQ10	Surface		2/13/2012	< 0.08	< 0.01	-	0.300	0.0500	0.0120	0.00600	< 0.003	-	0.00500	3.20
	WQ10	Surface		3/12/2012	< 0.08	< 0.02	-	0.200	0.0600	0.0260	< 0.003	0.00400	-	< 0.001	3.40
	WQ10	Surface		4/16/2012	< 0.08	< 0.02	-	0.100	0.0600	< 0.005	0.00700	< 0.003	-	0.00300	2.60
	WQ10	Surface		5/14/2012	0.270	< 0.02	-	1.00	0.0700	0.00500	< 0.003	< 0.003	-	0.00600	0.800
	WQ10	Surface		5/22/2012	0.190	< 0.02	-	0.900	0.0600	< 0.005	0.00400	0.0500	-	0.00900	1.10
	WQ10	Surface		5/29/2012	0.150	0.0300	-	1.60	0.0700	0.0170	0.00400	< 0.003	-	0.00200	0.500
	WQ10	Surface		6/5/2012	0.180	< 0.02	-	0.500	0.0300	0.0120	< 0.003	< 0.003	-	0.00400	0.700
	WQ10	Surface		6/12/2012	0.180	< 0.02	-	0.300	0.0300	< 0.005	< 0.003	< 0.003	-	0.00300	0.600
	WQ10	Surface		6/19/2012	< 0.08	< 0.02	-	0.300	0.0500	0.00900	< 0.003	< 0.003	-	< 0.001	0.800
	WQ10	Surface		7/17/2012	0.130	< 0.02	-	0.600	0.0600	0.0240	< 0.003	< 0.003	-	< 0.001	1.20
	WQ10	Surface		8/14/2012	0.130	< 0.02	-	< 0.1	< 0.02	< 0.005	< 0.003	< 0.003	-	0.0100	2.60
	WQ10	Surface		9/18/2012	< 0.08	< 0.02	-	< 0.1	0.0600	< 0.005	< 0.003	< 0.003	-	0.00700	2.80
	WQ10	Surface		10/15/2012	0.0800	< 0.02	-	0.300	0.0600	0.0470	< 0.003	< 0.003	-	0.00800	3.00
	WQ10	Surface		11/13/2012	0.100	< 0.02	-	0.300	0.0400	0.0140	< 0.003	< 0.003	-	0.00900	2.40
	WQ10	Surface		1/13/2013	< 0.08	< 0.02	-	0.300	0.0600	0.0490	< 0.003	< 0.003	-	0.00600	4.10
	WQ10	Surface		2/12/2013	< 0.08	< 0.02	-	0.400	0.0700	0.0400	< 0.003	< 0.003	-	0.00500	3.60
	WQ10	Surface		3/11/2013	< 0.08	< 0.02	-	0.200	0.0600	0.0450	< 0.003	< 0.003	-	0.0190	3.70
	WQ10	Surface		4/15/2013	< 0.08	< 0.02	-	0.400	0.0600	0.106	< 0.003	< 0.003	-	0.0160	3.10
	WQ10	Surface		5/13/2013	0.180	< 0.02	-	0.300	0.0400	0.0310	< 0.003	< 0.003	-	< 0.001	1.60
	WQ10	Surface		5/22/2013	0.190	< 0.02	-	0.300	0.0400	0.0240	< 0.003	< 0.003	-	0.0250	1.70
	WQ10	Surface		5/27/2013	0.150	< 0.02	-	0.200	0.0300	0.0210	< 0.003	< 0.003	-	< 0.001	1.40
	WQ10	Surface		6/6/2013	0.100	< 0.02	-	0.300	< 0.02	0.0310	< 0.003	< 0.003	-	0.0150	0.600
	WQ10	Surface		6/10/2013	< 0.08	< 0.02	-	0.300	0.0400	0.0190	< 0.003	< 0.003	-	< 0.001	0.800
	WQ10	Surface		6/17/2013	0.230	< 0.02	-	0.300	0.0300	0.0290	< 0.003	< 0.003	-	0.0150	0.800
	WQ10	Surface		4/13/2014	0.180	< 0.02	-	0.400	0.0500	0.0250	< 0.003	< 0.003	-	< 0.01	2.70
	WQ10	Surface		7/2/2014	0.180	< 0.02	-	0.200	0.0400	0.0140	< 0.003	0.00600	-	< 0.010	1.20
	WQ10	Surface	Dup	9/24/2014	< 0.08	< 0.02	-	< 0.1	0.100	< 0.005	< 0.003	< 0.003	-	< 0.01	2.50
	WQ10	Surface		9/24/2014	< 0.08	< 0.02	-	< 0.1	0.0900	< 0.005	< 0.003	< 0.003	-	< 0.01	2.60
	WQ10	Surface		12/8/2014	< 0.08	< 0.02	-	0.200	0.0800	< 0.005	< 0.003	< 0.003	-	< 0.010	3.10
L1913006-3	WQ10	Surface		4/11/2017	0.100	< 0.0050	< 0.050	< 0.50	0.0380	0.0111	< 0.0010	0.00490	0.00640	-	3.03
L1925486-1	WQ10	Surface		5/10/2017	0.365	< 0.0050	< 0.050	< 0.50	0.0220	< 0.0050	< 0.0010	0.00240	0.0150	-	0.740
L1939712-10	WQ10	Surface		6/7/2017	0.277	< 0.0050	< 0.050	< 0.50	0.0230	< 0.0050	< 0.0010	0.00180	0.00790	-	0.660
L1961670-2	WQ10	Surface		7/18/2017	0.110	< 0.0050	< 0.050	< 0.50	0.0340	< 0.0050	< 0.0010	0.00290	0.00550	-	1.76
L1984944-10	WQ10	Surface	Dup	8/30/2017	0.0620	< 0.0050	< 0.050	< 0.50	0.0410	0.00840	< 0.0010	0.00410	0.00670	-	2.89

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Anions and Nutrients										
					Total Kjeldahl	Ammonia, Total (as N)	Bromide (Br)	Chloride (Cl)	Fluoride (F)	Nitrate (as N)	Nitrite (as N)	Orthophosphate-Dissolved	Phosphorus (P)-	Phosphorus Total	Sulfate (SO ₄)
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1984944-1	WQ10	Surface		8/30/2017	0.0510	<0.0050	<0.050	<0.50	0.0400	0.00930	<0.0010	0.00450	0.00680	-	2.91
L1988832-1	WQ10	Surface		9/8/2017	0.0770	<0.0050	<0.050	<0.50	0.0420	<0.0050	<0.0010	0.00460	0.00550	-	2.76
L2011329-2	WQ10	Surface		10/19/2017	0.263	<0.0050	<0.050	0.530	0.0490	<0.0050	<0.0010	0.00270	0.00880	-	2.45
L2020946-1	WQ10	Surface		11/8/2017	0.135	<0.0050	<0.050	<0.50	0.0310	<0.0050	<0.0010	0.00400	0.00830	-	1.72
L2035356-4	WQ10	Surface		12/12/2017	0.0930	<0.0050	<0.050	<0.50	0.0290	0.0117	<0.0010	0.00430	0.00720	-	1.98
L2049678-2	WQ10	Surface		1/24/2018	0.0850	<0.0050	<0.050	<0.50	0.0350	0.0239	<0.0010	0.00630	0.00780	-	2.61
L2057025-2	WQ10	Surface		2/13/2018	<0.050	<0.0050	<0.050	<0.50	0.0360	0.0223	<0.0010	0.00570	0.00730	-	2.69
L2074294-8	WQ10	Surface	Dup	3/28/2018	<0.050	<0.0050	<0.050	<0.50	0.0400	0.0263	<0.0010	0.00590	0.0101	-	2.95
L2074294-3	WQ10	Surface		3/28/2018	0.0550	<0.0050	<0.050	<0.50	0.0400	0.0263	<0.0010	0.00690	0.00900	-	2.96
L2081503-4	WQ10	Surface		4/17/2018	0.0630	<0.0050	<0.050	<0.50	0.0390	0.0191	<0.0010	0.00680	0.00900	-	2.93
L2097084-3	WQ10	Surface		5/16/2018	0.276	<0.0050	<0.050	<0.50	0.0220	<0.0050	<0.0010	0.00250	0.0203	-	0.470
L2103632-3	WQ10	Surface		5/29/2018	0.172	<0.0050	<0.050	<0.50	0.0230	<0.0050	<0.0010	0.00260	0.0100	-	0.770
L2132986-2	WQ10	Surface		7/18/2018	0.0940	<0.0050	<0.050	<0.50	0.0340	<0.0050	<0.0010	0.00400	0.00930	-	1.56
L2143640-6	WQ10	Surface		8/7/2018	0.0990	<0.0050	<0.050	<0.50	0.0320	<0.0050	<0.0010	0.00490	0.00940	-	1.90
L2163669-2	WQ10	Surface		9/11/2018	0.0610	<0.0050	<0.050	<0.50	0.0390	<0.0050	<0.0010	0.00540	0.00980	-	2.53
L2188218-1	WQ10	Surface		10/26/2018	0.0960	<0.0050	<0.050	<0.50	0.0330	<0.0050	<0.0010	0.00460	0.00860	-	1.84
L2204508-3	WQ10	Surface		11/29/2018	0.126	<0.0050	<0.050	<0.50	0.0310	<0.0050	<0.0010	0.00380	0.00710	-	1.57
L2213246-1	WQ10	Surface		12/18/2018	0.0810	<0.0050	<0.050	<0.50	0.0350	0.0143	<0.0010	0.00510	0.00850	-	1.82
L2227701-1	WQ10	Surface		1/30/2019	0.0510	<0.0050	<0.050	<0.50	0.0390	0.0162	<0.0010	0.00590	0.00800	-	2.34
L2232050-6	WQ10	Surface		2/11/2019	<0.050	<0.0050	<0.050	<0.50	0.0380	0.0308	<0.0010	0.00650	0.00910	-	2.48
L2244756-1	WQ10	Surface		3/13/2019	<0.050	<0.0050	<0.050	<0.50	0.0450	0.0421	<0.0010	0.00700	0.00990	-	2.87
L2256053-5	WQ10	Surface	Dup	4/8/2019	0.0960	<0.0050	<0.050	<0.50	0.0390	0.00550	<0.0010	0.00310	0.0104	-	2.12
L2256053-1	WQ10	Surface		4/8/2019	0.180	<0.0050	<0.050	<0.50	0.0390	0.00560	<0.0010	0.00300	0.0102	-	2.12
L2273497-1	WQ10	Surface		5/13/2019	0.332	<0.0050	<0.050	<0.50	0.0220	<0.0050	<0.0010	<0.0010	0.0163	-	0.730
L2285579-6	WQ10	Surface		6/3/2019	0.195	<0.0050	<0.050	<0.50	0.0260	<0.0050	<0.0010	0.00120	0.00910	-	0.760
L2312637-1	WQ10	Surface		7/16/2019	0.188	0.00510	<0.050	<0.50	0.0290	<0.0050	<0.0010	0.00210	0.00820	-	0.700
L2326388-1	WQ10	Surface		8/8/2019	0.523	<0.0050	<0.050	<0.50	0.0320	<0.0050	<0.0010	0.00200	0.00900	-	0.830
L2350223-1	WQ10	Surface		9/17/2019	0.139	0.00970	<0.050	<0.50	0.0320	<0.0050	<0.0010	0.00200	0.00710	-	1.59
L2372667-1	WQ10	Surface		10/23/2019	0.149	<0.0050	<0.050	<0.50	0.0280	<0.0050	<0.0010	0.00150	0.00750	-	1.14
L2383392-1	WQ10	Surface		11/14/2019	0.143	0.00510	<0.050	<0.50	0.0310	<0.0050	<0.0010	0.00150	0.00710	-	1.18
VA19A0726-004	WQ10	Surface		12/16/2019	0.100	<0.0050	<0.050	<0.50	0.0300	0.00610	<0.0010	0.00240	0.00640	-	1.36
VA20A0812-001	WQ10	Surface		1/23/2020	0.100	<0.0050	<0.050	<0.50	0.0310	0.0177	<0.0010	0.00320	0.00810	-	2.06
VA20A1887-001	WQ10	Surface		2/13/2020	0.0600	<0.0050	<0.050	<0.50	0.0340	0.0192	<0.0010	0.00540	0.0246	-	2.34
VA20A3516-001	WQ10	Surface		3/16/2020	0.0600	<0.0050	<0.050	<0.50	0.0410	0.0213	<0.0010	0.00580	0.00660	-	2.70
VA20A4369-001	WQ10	Surface		4/1/2020	0.0610	<0.0050	<0.050	<0.50	0.0390	0.0201	<0.0010	0.00570	0.00740	-	2.65
VA20A6218-001	WQ10	Surface		5/7/2020	0.244	<0.0050	<0.050	<0.50	0.0260	<0.0050	<0.0010	0.00240	0.0110	-	0.660
VA20A6356-002	WQ10	Surface		5/11/2020	0.247	0.0112	<0.050	<0.50	0.0230	<0.0050	<0.0010	0.00210	0.0144	-	0.620
VA20A6810-003	WQ10	Surface		5/19/2020	0.272	<0.0050	<0.050	<0.50	0.0220	<0.0050	<0.0010	0.00190	0.0149	-	0.590
VA20A7202-003	WQ10	Surface		5/26/2020	0.192	<0.0050	<0.050	<0.50	0.0250	<0.0050	<0.0010	0.00200	0.0113	-	0.630
VA20A7672-002	WQ10	Surface		6/2/2020	0.188	<0.0050	<0.050	<0.50	0.0220	<0.0050	<0.0010	0.00240	0.00920	-	0.720
VA20A9918-003	WQ10	Surface		7/6/2020	0.164	<0.0050	<0.050	<0.50	0.0240	<0.0050	<0.0010	0.00210	0.00830	-	0.750
VA20B2156-008	WQ10	Surface	Dup	8/5/2020	0.112	<0.0050	<0.050	<0.50	0.0360	<0.0050	<0.0010	0.00430	0.00870	-	1.54
VA20B2156-001	WQ10	Surface		8/5/2020	0.115	<0.0050	<0.050	<0.50	0.0370	<0.0050	<0.0010	0.00460	0.00870	-	1.55
VA20B2426-004	WQ10	Surface		8/10/2020	0.131	<0.0050	<0.050	<0.50	0.0300	<0.0050	<0.0010	0.00340	0.00820	-	1.27

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LabID	Site	Depth	QAQC	Date	Anions and Nutrients										
					Total Kjeldahl	Ammonia, Total (as N)	Bromide (Br)	Chloride (Cl)	Fluoride (F)	Nitrate (as N)	Nitrite (as N)	Orthophosphate-Dissolved	Phosphorus (P)-	Phosphorus Total	Sulfate (SO ₄)
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
VA20B3264-002	WQ10	Surface		8/19/2020	0.119	<0.0050	<0.050	<0.50	0.0350	<0.0050	<0.0010	0.00620	0.00650	-	1.49
VA20B3609-001	WQ10	Surface		8/24/2020	0.150	<0.0050	<0.050	<0.50	0.0330	<0.0050	<0.0010	0.00340	0.00870	-	1.33
VA20B4313-001	WQ10	Surface		9/1/2020	0.108	<0.0050	<0.050	<0.50	0.0340	<0.0050	<0.0010	0.00370	0.00780	-	1.40
VA20B7624-004	WQ10	Surface		10/6/2020	0.102	<0.0050	<0.050	<0.50	0.0350	<0.0050	<0.0010	0.00390	0.00930	-	1.72
VA20C0197-003	WQ10	Surface		11/4/2020	0.242	<0.0050	<0.050	<0.50	0.0240	<0.0050	<0.0010	0.00170	0.0100	-	0.790
	WQ11	Surface		3/30/2011	0.270	< 0.02	-	0.300	0.0700	0.0620	< 0.003	< 0.003	-	< 0.001	3.20
	WQ11	Surface		4/19/2011	< 0.08	< 0.02	-	0.200	0.0700	0.0680	< 0.003	< 0.003	-	0.00600	2.70
	WQ11	Surface		5/17/2011	0.240	< 0.02	-	0.400	0.0600	0.0800	< 0.003	< 0.003	-	0.0250	2.20
	WQ11	Surface		5/25/2011	0.420	< 0.02	-	0.300	0.0500	0.0110	< 0.003	< 0.003	-	0.0170	1.90
	WQ11	Surface		5/31/2011	0.750	< 0.02	-	0.100	0.0500	0.00600	0.0130	< 0.003	-	0.0120	2.30
	WQ11	Surface		6/6/2011	0.320	< 0.02	-	0.200	0.0500	0.0140	< 0.003	< 0.003	-	0.00900	1.50
	WQ11	Surface		6/13/2011	0.320	< 0.02	-	0.200	0.0400	0.00600	< 0.003	< 0.003	-	0.00900	1.10
	WQ11	Surface		7/18/2011	0.0900	0.0200	-	0.300	0.0500	0.00500	< 0.003	< 0.003	-	0.00700	< 0.5
	WQ11	Surface		8/15/2011	< 0.08	< 0.02	-	0.200	0.0300	0.00600	< 0.003	0.00600	-	0.00600	0.500
	WQ11	Surface		9/19/2011	< 0.08	0.0400	-	0.300	0.0400	< 0.005	< 0.003	< 0.003	-	0.00300	1.30
	WQ11	Surface		10/17/2011	0.100	< 0.02	-	0.400	0.0300	< 0.005	< 0.003	0.0470	-	0.00200	0.900
	WQ11	Surface		11/14/2011	< 0.08	< 0.01	-	0.400	0.0400	0.00600	< 0.003	0.00400	-	< 0.001	1.40
	WQ11	Surface		12/12/2011	0.110	0.0400	-	0.500	0.0500	0.0250	< 0.003	< 0.003	-	< 0.001	1.40
	WQ11	Surface		5/15/2012	0.260	< 0.02	-	1.70	0.0700	0.00500	< 0.003	< 0.003	-	0.00900	0.900
	WQ11	Surface		5/22/2012	0.250	< 0.02	-	1.20	0.0700	< 0.005	0.00500	0.0380	-	0.0100	0.700
	WQ11	Surface		5/28/2012	0.140	0.0200	-	1.60	0.0700	< 0.005	0.00600	< 0.003	-	0.00500	< 0.5
	WQ11	Surface		6/4/2012	0.200	< 0.02	-	0.600	0.0400	< 0.005	< 0.003	< 0.003	-	0.00700	0.600
	WQ11	Surface		6/11/2012	0.110	< 0.02	-	0.600	0.0400	< 0.005	< 0.003	< 0.003	-	0.00400	< 0.5
	WQ11	Surface		6/18/2012	0.140	< 0.02	-	0.300	0.0400	0.00700	< 0.003	< 0.003	-	0.00200	0.500
	WQ11	Surface		7/16/2012	0.170	< 0.02	-	0.700	0.0700	0.0150	< 0.003	< 0.003	-	0.00300	0.700
	WQ11	Surface		8/13/2012	0.100	< 0.02	-	< 0.1	< 0.02	< 0.005	< 0.003	< 0.003	-	0.00800	1.70
	WQ11	Surface		9/17/2012	< 0.08	< 0.02	-	< 0.1	0.0500	< 0.005	< 0.003	< 0.003	-	< 0.001	1.90
	WQ11	Surface		10/15/2012	< 0.08	< 0.02	-	0.500	0.0500	< 0.005	< 0.003	0.00300	-	0.00300	2.50
	WQ11	Surface		11/13/2012	0.0900	< 0.02	-	0.500	0.0600	0.0570	< 0.003	< 0.003	-	0.00800	2.30
	WQ11	Surface		1/13/2013	< 0.08	< 0.02	-	0.400	0.0600	0.0290	< 0.003	< 0.003	-	0.00600	3.40
	WQ11	Surface		2/12/2013	< 0.08	< 0.02	-	0.500	0.0600	0.0610	< 0.003	< 0.003	-	0.00500	3.10
	WQ11	Surface		4/15/2013	0.330	< 0.02	-	0.500	0.0600	0.0700	< 0.003	< 0.003	-	0.0190	2.00
	WQ11	Surface		5/13/2013	0.250	< 0.02	-	0.300	0.0400	0.0300	< 0.003	< 0.003	-	0.00100	1.10
	WQ11	Surface		5/22/2013	0.310	< 0.02	-	0.300	0.0400	0.0230	< 0.003	< 0.003	-	0.0320	1.20
	WQ11	Surface		5/27/2013	0.0900	< 0.02	-	0.300	0.0300	0.0470	< 0.003	< 0.003	-	< 0.001	1.10
	WQ11	Surface		6/6/2013	0.170	< 0.02	-	0.300	< 0.02	0.0280	< 0.003	< 0.003	-	0.0150	< 0.5
	WQ11	Surface		6/10/2013	0.130	< 0.02	-	0.200	0.0400	0.0150	< 0.003	< 0.003	-	< 0.001	< 0.5
	WQ11	Surface		6/17/2013	0.680	< 0.02	-	0.300	0.0300	0.0300	< 0.003	< 0.003	-	0.0180	< 0.5
L1762266-2	WQ11	Surface		4/27/2016	0.465	0.00890	<0.050	<0.50	0.0280	<0.0050	<0.0010	0.00150	0.0169	-	0.590
L1764648-1	WQ11	Surface		5/3/2016	0.342	<0.0050	<0.050	<0.50	0.0300	<0.0050	<0.0010	0.00160	0.0115	-	0.580
L1767107-6	WQ11	Surface	Dup	5/9/2016	0.314	<0.0050	<0.050	<0.50	0.0290	<0.0050	<0.0010	0.00120	0.00740	-	0.620
L1767107-2	WQ11	Surface		5/9/2016	0.307	<0.0050	<0.050	<0.50	0.0290	<0.0050	<0.0010	0.00110	0.00740	-	0.640
L1770672-5	WQ11	Surface	Dup	5/16/2016	0.303	<0.0050	<0.050	<0.50	0.0320	<0.0050	<0.0010	0.00170	0.00710	-	0.700
L1770672-1	WQ11	Surface		5/16/2016	0.287	<0.0050	<0.050	<0.50	0.0320	<0.0050	<0.0010	0.00150	0.00810	-	0.690

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Anions and Nutrients										
					Total Kjeldahl	Ammonia, Total (as N)	Bromide (Br)	Chloride (Cl)	Fluoride (F)	Nitrate (as N)	Nitrite (as N)	Orthophosphate-Dissolved	Phosphorus (P)-	Phosphorus Total	Sulfate (SO ₄)
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1774541-1	WQ11	Surface		5/25/2016	0.210	<0.0050	<0.050	<0.50	0.0340	<0.0050	<0.0010	0.00110	0.00590	-	0.790
L1788643-1	WQ11	Surface		6/22/2016	0.298	<0.0050	<0.050	<0.50	0.0270	<0.0050	<0.0010	0.00180	0.00960	-	0.410
L1808945-1	WQ11	Surface		8/3/2016	0.265	<0.0050	<0.050	<0.50	0.0290	<0.0050	<0.0010	<0.0010	0.00590	-	0.520
L1812856-1	WQ11	Surface		8/10/2016	0.255	<0.0050	<0.050	<0.50	0.0310	<0.0050	<0.0010	0.00120	0.00570	-	0.580
L1815654-1	WQ11	Surface		8/16/2016	0.210	<0.0050	<0.050	<0.50	0.0300	0.00870	<0.0010	<0.0010	0.00550	-	0.670
L1819041-6	WQ11	Surface		8/23/2016	0.263	<0.0050	<0.050	<0.50	0.0340	<0.0050	<0.0010	0.00160	0.00730	-	0.680
L1823224-4	WQ11	Surface		8/31/2016	0.218	<0.0050	<0.050	<0.50	0.0310	<0.0050	<0.0010	0.00120	0.00570	-	0.720
L1826303-3	WQ11	Surface		9/7/2016	0.249	<0.0050	<0.050	<0.50	0.0300	<0.0050	<0.0010	0.00110	0.00940	-	0.580
	WQ12	Surface		4/19/2011	0.540	< 0.02	-	0.200	0.0600	0.0440	< 0.003	< 0.003	-	0.00800	1.90
	WQ12	Surface		5/17/2011	0.180	< 0.02	-	0.200	0.0500	0.00800	< 0.003	< 0.003	-	0.0110	1.90
	WQ12	Surface		5/24/2011	0.400	< 0.02	-	0.300	0.0500	0.00800	< 0.003	< 0.003	-	0.00700	2.00
	WQ12	Surface		5/30/2011	0.550	< 0.02	-	< 0.1	0.0400	0.00600	0.0120	< 0.003	-	0.00600	2.10
	WQ12	Surface		6/6/2011	0.310	< 0.02	-	0.300	0.0800	0.0290	< 0.003	< 0.003	-	0.00400	4.70
	WQ12	Surface		6/13/2011	0.330	0.0200	-	0.100	0.0300	< 0.005	< 0.003	< 0.003	-	0.00700	1.30
	WQ12	Surface		7/18/2011	< 0.08	0.0200	-	0.200	0.0400	< 0.005	< 0.003	< 0.003	-	0.00400	0.500
	WQ12	Surface		8/15/2011	< 0.08	< 0.02	-	0.100	0.0200	< 0.005	< 0.003	0.00400	-	0.00400	< 0.5
	WQ12	Surface		9/19/2011	< 0.08	0.0200	-	0.200	0.0300	< 0.005	< 0.003	0.0230	-	0.00700	< 0.5
	WQ12	Surface		10/17/2011	0.180	0.0300	-	0.200	0.0200	< 0.005	< 0.003	0.0320	-	0.00200	0.700
	WQ12	Surface		11/14/2011	< 0.08	< 0.01	-	0.200	0.0300	< 0.005	< 0.003	< 0.003	-	< 0.001	0.800
	WQ12	Surface		12/12/2011	0.0900	0.0300	-	0.300	0.0300	0.0220	< 0.003	< 0.003	-	< 0.001	0.900
	WQ12	Surface		1/12/2012	0.100	< 0.02	-	0.200	0.0300	0.0130	0.00900	< 0.003	-	0.00700	0.900
	WQ12	Surface		2/13/2012	0.140	< 0.01	-	0.200	0.0300	0.0340	0.00900	< 0.003	-	< 0.001	1.00
	WQ12	Surface	Dup	3/12/2012	< 0.08	< 0.02	-	0.200	0.0300	0.0300	< 0.003	< 0.003	-	< 0.001	1.20
	WQ12	Surface		3/12/2012	< 0.08	< 0.02	-	0.200	0.0300	0.0320	< 0.003	< 0.003	-	< 0.001	1.20
	WQ12	Surface		4/16/2012	0.100	< 0.02	-	0.300	0.0400	0.00900	0.00900	< 0.003	-	0.00400	0.800
	WQ12	Surface		5/15/2012	0.200	0.0200	-	0.900	0.0600	< 0.005	0.00500	< 0.003	-	0.00200	0.600
	WQ12	Surface		5/22/2012	0.150	< 0.02	-	0.800	0.0500	0.00500	0.00400	0.0270	-	0.00500	0.800
	WQ12	Surface		5/28/2012	0.0900	0.0300	-	2.00	0.0700	0.0380	0.00500	< 0.003	-	< 0.001	0.600
	WQ12	Surface		6/4/2012	0.140	< 0.02	-	0.700	0.0300	< 0.005	< 0.003	< 0.003	-	< 0.001	0.800
	WQ12	Surface		6/11/2012	0.160	< 0.02	-	0.300	0.0300	< 0.005	< 0.003	< 0.003	-	< 0.001	0.500
	WQ12	Surface		6/18/2012	0.110	< 0.02	-	0.300	0.0300	0.00600	< 0.003	< 0.003	-	0.00800	0.800
	WQ12	Surface		7/16/2012	0.140	< 0.02	-	0.600	0.0500	0.0210	< 0.003	< 0.003	-	< 0.001	0.600
	WQ12	Surface		8/13/2012	0.100	< 0.02	-	< 0.1	< 0.02	< 0.005	< 0.003	< 0.003	-	0.0100	1.60
	WQ12	Surface		9/17/2012	0.130	< 0.02	-	< 0.1	0.0500	< 0.005	< 0.003	< 0.003	-	0.00500	1.20
	WQ12	Surface		10/15/2012	< 0.08	< 0.02	-	0.300	0.0400	0.0740	0.00300	< 0.003	-	0.0110	1.30
	WQ12	Surface		11/13/2012	0.180	< 0.02	-	0.200	0.0300	0.00600	< 0.003	0.0180	-	0.00300	0.800
	WQ12	Surface		1/13/2013	0.510	< 0.02	-	0.200	0.0400	0.0140	< 0.003	< 0.003	-	0.00500	1.90
	WQ12	Surface		2/12/2013	< 0.08	< 0.02	-	0.400	0.0400	0.0360	0.00300	< 0.003	-	0.00400	1.70
	WQ12	Surface		3/11/2013	0.100	< 0.02	-	0.400	0.0500	0.0390	< 0.003	< 0.003	-	0.0200	1.70
	WQ12	Surface		4/15/2013	0.280	< 0.02	-	0.300	0.0400	0.0460	< 0.003	< 0.003	-	0.0190	1.50
	WQ12	Surface		5/13/2013	0.150	< 0.02	-	0.300	0.0400	0.0210	< 0.003	< 0.003	-	< 0.001	1.30
	WQ12	Surface		5/22/2013	0.200	< 0.02	-	0.200	0.0400	0.0140	< 0.003	< 0.003	-	0.0280	1.30
	WQ12	Surface		5/27/2013	0.110	< 0.02	-	0.300	0.0200	0.0120	< 0.003	< 0.003	-	< 0.001	< 0.5
	WQ12	Surface		6/6/2013	0.120	< 0.02	-	0.300	< 0.02	0.0340	< 0.003	< 0.003	-	0.0120	0.500

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Anions and Nutrients										
					Total Kjeldahl	Ammonia, Total (as N)	Bromide (Br)	Chloride (Cl)	Fluoride (F)	Nitrate (as N)	Nitrite (as N)	Orthophosphate-Dissolved	Phosphorus (P)-	Phosphorus Total	Sulfate (SO ₄)
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ12	Surface		6/10/2013	0.0900	< 0.02	-	0.200	0.0400	0.0160	< 0.003	< 0.003	-	< 0.001	0.700
	WQ12	Surface		6/17/2013	0.350	< 0.02	-	0.200	0.0300	0.0190	< 0.003	< 0.003	-	< 0.001	0.500
	WQ13	Surface		4/19/2011	0.410	< 0.02	-	0.400	0.0900	0.0380	< 0.003	< 0.003	-	0.0140	4.50
	WQ13	Surface		5/17/2011	0.180	< 0.02	-	0.400	0.0900	0.00500	< 0.003	< 0.003	-	0.0150	5.30
	WQ13	Surface		5/24/2011	0.330	< 0.02	-	0.400	0.0700	0.00800	< 0.003	0.00400	-	0.0120	4.10
	WQ13	Surface		5/30/2011	0.340	< 0.02	-	0.100	0.0800	0.00800	0.0140	0.00800	-	0.0110	5.80
	WQ13	Surface		6/6/2011	0.340	< 0.02	-	0.300	0.0700	0.0180	< 0.003	0.00400	-	0.00700	3.50
	WQ13	Surface		6/13/2011	0.580	< 0.02	-	0.200	0.0600	< 0.005	< 0.003	0.00500	-	0.00900	3.50
	WQ13	Surface		7/18/2011	< 0.08	0.0300	-	0.400	0.0600	< 0.005	< 0.003	< 0.003	-	0.00800	2.90
	WQ13	Surface		8/15/2011	< 0.08	0.0200	-	0.200	0.0600	0.0120	< 0.003	0.00800	-	0.00700	3.00
	WQ13	Surface		9/19/2011	0.230	< 0.02	-	0.300	0.0600	< 0.005	< 0.003	0.00400	-	0.0100	2.80
	WQ13	Surface		10/17/2011	0.0900	< 0.02	-	0.300	0.0600	< 0.005	< 0.003	0.0720	-	0.00600	3.20
	WQ13	Surface		11/14/2011	< 0.08	< 0.01	-	0.400	0.0700	0.0320	< 0.003	0.0160	-	0.00600	3.60
	WQ13	Surface		12/13/2011	1.02	< 0.02	-	0.300	0.0700	0.0470	< 0.003	0.00800	-	0.00600	3.70
	WQ13	Surface		1/12/2012	< 0.08	< 0.02	-	0.400	0.0700	0.0650	0.00600	0.0150	-	0.00400	4.40
	WQ13	Surface		2/13/2012	0.200	< 0.01	-	0.400	0.0700	0.0230	0.00900	0.0100	-	0.0100	4.70
	WQ13	Surface		3/12/2012	0.0900	< 0.02	-	0.300	0.0700	0.0230	< 0.003	0.00900	-	0.00500	4.60
	WQ13	Surface		4/16/2012	0.140	< 0.02	-	0.400	0.0800	< 0.005	0.0110	< 0.003	-	0.0150	3.90
	WQ13	Surface		5/15/2012	0.210	< 0.02	-	1.10	0.0800	0.0460	< 0.003	< 0.003	-	0.00900	4.00
	WQ13	Surface		5/22/2012	0.230	< 0.02	-	1.10	0.0800	< 0.005	0.00300	< 0.003	-	0.00700	4.10
	WQ13	Surface		5/28/2012	0.160	< 0.02	-	1.40	0.0900	0.0110	0.00500	< 0.003	-	0.00300	3.20
	WQ13	Surface		6/4/2012	0.220	< 0.02	-	0.800	0.0600	0.00600	< 0.003	< 0.003	-	0.00400	3.50
	WQ13	Surface	Dup	6/11/2012	0.110	< 0.02	-	0.300	0.0600	< 0.005	< 0.003	< 0.003	-	0.00200	2.90
	WQ13	Surface		6/11/2012	0.110	< 0.02	-	0.500	0.0600	< 0.005	0.00300	< 0.003	-	< 0.001	3.00
	WQ13	Surface		6/18/2012	0.150	< 0.02	-	0.400	0.0700	< 0.005	< 0.003	< 0.003	-	< 0.001	3.20
	WQ13	Surface		7/16/2012	0.190	< 0.02	-	0.800	0.0900	0.0120	< 0.003	< 0.003	-	< 0.001	3.20
	WQ13	Surface		8/13/2012	0.170	< 0.02	-	< 0.1	< 0.02	< 0.005	< 0.003	< 0.003	-	0.0120	4.30
	WQ13	Surface		9/17/2012	0.160	< 0.02	-	0.200	0.0700	< 0.005	< 0.003	< 0.003	-	0.00600	3.90
	WQ13	Surface		10/15/2012	< 0.08	< 0.02	-	0.300	0.0700	0.0770	0.00500	< 0.003	-	0.00800	3.90
	WQ13	Surface		11/12/2012	0.570	< 0.02	-	0.400	0.0600	0.0290	< 0.003	< 0.003	-	0.00700	3.60
	WQ13	Surface		1/15/2013	0.170	< 0.02	-	0.700	0.0700	0.0750	< 0.003	< 0.003	-	0.0200	4.60
	WQ13	Surface		5/14/2013	0.190	< 0.02	-	0.400	0.0700	0.0140	< 0.003	< 0.003	-	0.00600	3.50
	WQ13	Surface		5/22/2013	0.190	< 0.02	-	0.300	0.0400	0.0230	< 0.003	< 0.003	-	0.0210	1.70
	WQ13	Surface		5/28/2013	0.150	< 0.02	-	0.600	0.0400	0.0320	< 0.003	< 0.003	-	< 0.001	3.20
	WQ13	Surface		6/4/2013	0.150	< 0.02	-	0.400	0.0400	0.0240	< 0.003	< 0.003	-	0.0160	2.70
	WQ13	Surface		6/10/2013	0.180	< 0.02	-	12.2	0.0400	< 0.005	< 0.003	< 0.003	-	< 0.001	3.70
	WQ13	Surface		6/18/2013	0.240	< 0.02	-	0.400	0.0500	0.0230	< 0.003	< 0.003	-	< 0.001	2.90
L1913531-4	WQ13	Surface	Dup	4/12/2017	0.324	<0.0050	<0.050	<0.50	0.0470	<0.0050	<0.0010	0.00190	0.0185	-	3.41
L1913531-2	WQ13	Surface		4/12/2017	0.372	0.00530	<0.050	<0.50	0.0490	<0.0050	<0.0010	0.00210	0.0148	-	3.34
L1926080-1	WQ13	Surface		5/11/2017	0.324	0.00630	<0.050	<0.50	0.0440	0.00950	<0.0010	0.00310	0.0213	-	3.25
L1939712-11	WQ13	Surface		6/7/2017	0.321	0.00650	<0.050	<0.50	0.0520	<0.0050	<0.0010	<0.0010	0.0169	-	3.06
L1964508-2	WQ13	Surface		7/24/2017	-	<0.0050	<0.050	<0.50	0.0530	<0.0050	<0.0010	0.00300	0.0103	-	3.35
L1984944-8	WQ13	Surface		8/30/2017	0.247	<0.0050	<0.050	<0.50	0.0530	<0.0050	<0.0010	0.00260	0.0100	-	3.38
L1988832-7	WQ13	Surface		9/9/2017	0.267	<0.0050	<0.050	<0.50	0.0570	<0.0050	<0.0010	0.00200	0.0139	-	3.62

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Anions and Nutrients										
					Total Kjeldahl	Ammonia, Total (as N)	Bromide (Br)	Chloride (Cl)	Fluoride (F)	Nitrate (as N)	Nitrite (as N)	Orthophosphate-Dissolved	Phosphorus (P)-	Phosphorus Total	Sulfate (SO ₄)
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2009845-1	WQ13	Surface		10/17/2017	0.271	0.00550	<0.050	<0.50	0.0530	<0.0050	<0.0010	0.00260	0.00970	-	3.65
L2020333-1	WQ13	Surface		11/7/2017	0.237	0.0102	<0.050	<0.50	0.0620	0.0412	<0.0010	0.00990	0.0219	-	4.11
L2034610-4	WQ13	Surface		12/11/2017	0.249	0.00610	<0.050	<0.50	0.0520	0.0498	<0.0010	0.0106	0.0185	-	3.69
L2049224-3	WQ13	Surface		1/23/2018	0.197	0.00690	<0.050	<0.50	0.0530	0.0733	0.00120	0.0156	0.0241	-	3.98
L2060442-3	WQ13	Surface		2/23/2018	0.225	0.00580	<0.050	<0.50	0.0610	0.0835	0.00160	0.0161	0.0260	-	4.08
L2074294-7	WQ13	Surface		3/28/2018	0.445	0.0497	<0.050	<0.50	0.0570	0.0715	<0.0010	0.0184	0.0362	-	3.94
L2081505-5	WQ13	Surface		4/16/2018	0.437	0.0780	<0.050	<0.50	0.0570	0.0536	0.00220	0.0329	0.0671	-	3.94
L2097084-4	WQ13	Surface		5/16/2018	0.326	<0.0050	<0.050	<0.50	0.0490	<0.0050	<0.0010	0.00480	0.0234	-	3.05
L2104479-4	WQ13	Surface		5/30/2018	0.295	0.00750	<0.050	<0.50	0.0540	<0.0050	<0.0010	0.00570	0.0216	-	3.18
L2132986-1	WQ13	Surface		7/18/2018	0.305	<0.0050	<0.050	<0.50	0.0540	<0.0050	<0.0010	<0.0010	0.0138	-	3.18
L2144782-5	WQ13	Surface		8/9/2018	0.309	0.0124	<0.050	<0.50	0.0540	0.00700	<0.0010	0.00360	0.0179	-	3.22
L2164448-1	WQ13	Surface		9/12/2018	0.344	<0.0050	<0.050	<0.50	0.0590	<0.0050	<0.0010	0.00180	0.0177	-	3.45
L2188218-5	WQ13	Surface		10/26/2018	2.73	0.00620	<0.050	<0.50	0.0540	<0.0050	<0.0010	0.00130	0.207	-	3.28
L2203408-5	WQ13	Surface		11/27/2018	0.269	0.00840	<0.050	<0.50	0.0560	0.0655	<0.0010	0.0118	0.0236	-	3.69
L2213684-4	WQ13	Surface		12/19/2018	0.247	0.00600	<0.050	<0.50	0.0560	0.0874	0.00120	0.0155	0.0260	-	3.89
L2227101-4	WQ13	Surface		1/29/2019	0.226	<0.0050	<0.050	<0.50	0.0570	0.0977	<0.0010	0.0169	0.0256	-	3.74
L2232050-7	WQ13	Surface		2/11/2019	0.246	0.00770	<0.050	<0.50	0.0550	0.106	<0.0010	0.0166	0.0265	-	3.79
L2245144-2	WQ13	Surface		3/14/2019	0.246	0.00790	<0.050	<0.50	0.0630	0.0900	<0.0010	0.0120	0.0243	-	4.13
L2256054-4	WQ13	Surface		4/9/2019	0.283	0.00780	<0.050	<0.50	0.0550	0.0397	<0.0010	0.00910	0.0281	-	4.76
L2274397-3	WQ13	Surface		5/14/2019	0.339	0.00680	<0.050	<0.50	0.0480	<0.0050	<0.0010	<0.0010	0.0581	-	3.73
L2286702-4	WQ13	Surface		6/4/2019	0.352	0.00590	<0.050	<0.50	0.0560	<0.0050	<0.0010	<0.0010	0.0191	-	3.50
L2312637-2	WQ13	Surface		7/16/2019	0.321	0.00730	<0.050	<0.50	0.0550	<0.0050	<0.0010	<0.0010	0.0121	-	3.18
L2326388-5	WQ13	Surface		8/8/2019	0.313	<0.0050	<0.050	<0.50	0.0570	<0.0050	<0.0010	0.00110	0.0121	-	3.12
L2349445-4	WQ13	Surface		9/16/2019	0.254	0.00720	<0.050	<0.50	0.0600	<0.0050	<0.0010	0.00350	0.0139	-	3.35
L2372667-4	WQ13	Surface		10/23/2019	0.242	0.00760	<0.050	<0.50	0.0490	0.0241	0.00140	0.00880	0.0181	-	3.36
L2388381-4	WQ13	Surface		11/25/2019	0.523	0.0390	<0.050	<0.50	0.0570	0.0474	<0.0010	0.0156	0.0247	-	3.33
VA19A0791-005	WQ13	Surface	Dup	12/17/2019	0.249	0.00650	<0.050	<0.50	0.0610	0.0602	0.00170	0.0150	0.0234	-	4.00
VA19A0791-004	WQ13	Surface		12/17/2019	0.231	0.00820	<0.050	<0.50	0.0630	0.0595	0.00160	0.0149	0.0250	-	3.89
VA20A0960-004	WQ13	Surface		1/27/2020	0.254	0.00880	<0.050	<0.50	0.0580	0.0731	0.00100	0.0145	0.0270	-	3.98
VA20A2126-003	WQ13	Surface		2/19/2020	0.235	0.00770	<0.050	<0.50	0.0580	0.0412	0.00200	0.0161	0.0242	-	4.08
VA20A3691-001	WQ13	Surface		3/18/2020	0.298	0.00640	<0.050	<0.50	0.0620	0.0418	<0.0010	0.0140	0.0248	-	4.25
VA20A4555-005	WQ13	Surface		4/7/2020	0.340	0.0236	<0.050	<0.50	0.0590	0.0489	<0.0010	0.0141	0.0333	-	3.85
VA20A6218-004	WQ13	Surface		5/7/2020	0.297	0.0109	<0.050	<0.50	0.0510	0.0236	<0.0010	0.00920	0.0226	-	3.31
VA20A6356-003	WQ13	Surface		5/11/2020	0.321	<0.0050	<0.050	<0.50	0.0450	<0.0050	<0.0010	0.00660	0.0267	-	3.06
VA20A6869-003	WQ13	Surface		5/20/2020	0.315	0.00970	<0.050	<0.50	0.0480	<0.0050	<0.0010	0.00480	0.0198	-	2.85
VA20A7367-003	WQ13	Surface		5/28/2020	0.259	<0.0050	<0.050	<0.50	0.0520	0.0143	<0.0010	0.00940	0.0245	-	3.14
VA20A7797-003	WQ13	Surface		6/3/2020	0.405	0.0115	<0.050	<0.50	0.0350	<0.0050	<0.0010	0.00320	0.0216	-	2.72
VA20B0021-003	WQ13	Surface		7/7/2020	0.321	0.0125	<0.050	<0.50	0.0560	<0.0050	<0.0010	0.00150	0.0138	-	3.03
VA20B2156-003	WQ13	Surface		8/5/2020	0.373	<0.0050	<0.050	<0.50	0.0550	<0.0050	<0.0010	<0.0010	0.0129	-	3.45
VA20B2542-004	WQ13	Surface		8/11/2020	0.288	<0.0050	<0.050	<0.50	0.0560	<0.0050	<0.0010	0.00120	0.00720	-	3.38
VA20B3218-002	WQ13	Surface		8/18/2020	0.458	0.0252	<0.050	<0.50	0.0500	0.00610	<0.0010	0.00170	0.0278	-	3.06
VA20B3860-003	WQ13	Surface		8/26/2020	0.449	0.0399	<0.050	<0.50	0.0580	0.00930	0.00100	0.00150	0.0200	-	3.43
VA20B4313-003	WQ13	Surface		9/1/2020	0.387	0.0352	<0.050	<0.50	0.0540	0.00940	0.00100	0.00300	0.0175	-	3.02
VA20B7828-003	WQ13	Surface		10/8/2020	0.269	0.0128	<0.050	<0.50	0.0550	0.0195	0.00130	0.00370	0.0136	-	3.34

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LabID	Site	Depth	QAQC	Date	Anions and Nutrients										
					Total Kjeldahl	Ammonia, Total (as N)	Bromide (Br)	Chloride (Cl)	Fluoride (F)	Nitrate (as N)	Nitrite (as N)	Orthophosphate-Dissolved	Phosphorus (P)-	Phosphorus Total	Sulfate (SO ₄)
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
VA20C1281-002	WQ13	Surface	Dup	11/18/2020	0.284	0.00670	<0.050	<0.50	0.0500	0.108	0.00310	0.0163	0.0262	-	3.58
VA20C1281-001	WQ13	Surface		11/18/2020	0.279	0.00690	<0.050	<0.50	0.0530	0.120	0.00350	0.0160	0.0272	-	3.64
	WQ14	Surface		5/24/2011	0.210	< 0.02	-	0.400	0.0700	< 0.005	< 0.003	< 0.003	-	0.0160	2.70
	WQ14	Surface		5/30/2011	0.400	< 0.02	-	0.100	0.0700	< 0.005	0.0120	< 0.003	-	0.0120	3.80
	WQ14	Surface		6/6/2011	0.320	< 0.02	-	0.400	0.0700	0.0200	< 0.003	< 0.003	-	0.00800	2.60
	WQ14	Surface		6/13/2011	0.590	< 0.02	-	0.300	0.0600	< 0.005	< 0.003	< 0.003	-	0.00800	2.50
	WQ14	Surface	Dup	7/18/2011	0.120	< 0.02	-	0.500	0.0700	< 0.005	< 0.003	< 0.003	-	0.00900	1.70
	WQ14	Surface		7/18/2011	< 0.08	0.0200	-	0.400	0.0700	< 0.005	< 0.003	< 0.003	-	0.00800	1.50
	WQ14	Surface		8/15/2011	< 0.08	< 0.02	-	0.300	0.0600	0.0210	< 0.003	0.00600	-	0.0100	2.00
	WQ14	Surface		9/19/2011	0.140	< 0.02	-	0.400	0.0700	< 0.005	< 0.003	0.00900	-	0.00700	2.40
	WQ14	Surface		10/17/2011	0.0900	< 0.02	-	0.500	0.0600	< 0.005	< 0.003	0.0830	-	0.00400	3.50
	WQ14	Surface	Dup	11/14/2011	< 0.08	< 0.01	-	0.600	0.0700	0.0170	< 0.003	0.00700	-	< 0.001	4.10
	WQ14	Surface		11/14/2011	< 0.08	< 0.01	-	0.600	0.0700	0.0110	< 0.003	0.00900	-	< 0.001	4.40
	WQ14	Surface		12/13/2011	0.100	< 0.02	-	0.500	0.0700	0.0360	< 0.003	0.00400	-	< 0.001	4.70
	WQ14	Surface	Dup	1/12/2012	0.160	< 0.02	-	0.400	0.0700	0.0680	0.00700	0.0130	-	0.0100	4.40
	WQ14	Surface		1/12/2012	< 0.08	< 0.02	-	0.600	0.0700	0.0730	0.00700	0.0140	-	0.0190	4.90
	WQ14	Surface		4/17/2012	0.100	< 0.02	-	0.400	0.0800	0.0110	0.0100	< 0.003	-	0.0150	3.70
	WQ14	Surface		5/23/2012	0.260	< 0.02	-	1.20	0.0900	0.00600	< 0.003	< 0.003	-	0.00600	2.50
	WQ14	Surface		5/28/2012	0.190	< 0.02	-	2.30	0.100	0.0270	0.00500	< 0.003	-	0.00300	2.20
	WQ14	Surface	Dup	6/4/2012	0.130	< 0.02	-	0.800	0.0600	0.00600	< 0.003	< 0.003	-	0.00500	2.20
	WQ14	Surface		6/4/2012	0.140	< 0.02	-	0.700	0.0600	< 0.005	< 0.003	< 0.003	-	0.00300	2.00
	WQ14	Surface		6/11/2012	0.200	< 0.02	-	0.400	0.0700	< 0.005	< 0.003	< 0.003	-	0.00100	1.80
	WQ14	Surface		6/18/2012	0.110	< 0.02	-	0.500	0.0700	0.00700	< 0.003	< 0.003	-	< 0.001	2.20
	WQ14	Surface		7/16/2012	0.150	< 0.02	-	0.700	0.100	0.00800	0.00400	< 0.003	-	0.00400	1.50
	WQ14	Surface		8/13/2012	0.120	< 0.02	-	< 0.1	< 0.02	< 0.005	< 0.003	< 0.003	-	0.0140	2.50
	WQ14	Surface		9/17/2012	0.110	< 0.02	-	0.300	0.0800	< 0.005	< 0.003	0.0390	-	0.00200	3.00
	WQ14	Surface		10/16/2012	< 0.08	< 0.02	-	0.400	0.0700	0.0110	< 0.003	< 0.003	-	0.00600	4.30
	WQ14	Surface		11/12/2012	0.380	< 0.02	-	0.600	0.0700	< 0.005	< 0.003	0.00300	-	0.00700	4.50
	WQ14	Surface		12/10/2012	0.120	< 0.02	-	1.00	0.0800	0.0670	0.0130	< 0.003	-	0.0200	6.40
	WQ14	Surface		4/16/2013	0.300	< 0.02	-	0.600	0.0800	0.0390	< 0.003	< 0.003	-	0.0150	4.40
	WQ14	Surface	Dup	5/14/2013	0.190	< 0.02	-	0.400	0.0700	0.00600	< 0.003	< 0.003	-	< 0.001	2.30
	WQ14	Surface		5/14/2013	0.280	< 0.02	-	0.400	0.0700	0.0160	< 0.003	< 0.003	-	< 0.001	2.20
	WQ14	Surface		5/21/2013	0.210	< 0.02	-	0.300	0.0600	0.0140	< 0.003	< 0.003	-	0.0160	2.90
	WQ14	Surface		5/28/2013	0.130	< 0.02	-	0.500	0.0400	0.0260	< 0.003	< 0.003	-	< 0.001	1.80
	WQ14	Surface		6/4/2013	0.150	< 0.02	-	0.400	0.0500	0.0340	< 0.003	< 0.003	-	0.0150	1.60
	WQ14	Surface	Dup	6/11/2013	0.230	< 0.02	-	0.500	0.0500	0.0260	< 0.003	< 0.003	-	< 0.001	1.70
	WQ14	Surface		6/11/2013	0.170	< 0.02	-	0.900	0.0600	0.0550	< 0.003	< 0.003	-	< 0.001	1.80
	WQ14	Surface		6/18/2013	0.690	< 0.02	-	0.400	0.0600	0.0190	< 0.003	< 0.003	-	0.270	1.60
	WQ15	Surface		9/24/2012	0.250	< 0.02	-	0.600	0.0400	0.0250	< 0.003	< 0.003	-	0.0100	0.900
	WQ15	Surface		10/15/2012	< 0.08	< 0.02	-	0.300	0.0400	0.0790	0.00300	< 0.003	-	0.0100	1.50
	WQ15	Surface		11/13/2012	0.640	< 0.02	-	0.300	0.0300	0.0130	< 0.003	0.0100	-	0.00800	0.800
	WQ15	Surface		1/13/2013	0.190	< 0.02	-	0.300	0.0500	0.0180	< 0.003	< 0.003	-	0.00300	1.90
	WQ15	Surface		2/12/2013	0.110	< 0.02	-	0.400	0.0400	0.0260	0.00400	< 0.003	-	0.00400	1.60
	WQ15	Surface		3/11/2013	0.160	< 0.02	-	0.300	0.0400	0.0260	< 0.003	< 0.003	-	0.0190	1.50

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LabID	Site	Depth	QAQC	Date	Anions and Nutrients										
					Total Kjeldahl	Ammonia, Total (as N)	Bromide (Br)	Chloride (Cl)	Fluoride (F)	Nitrate (as N)	Nitrite (as N)	Orthophosphate-Dissolved	Phosphorus (P)-	Phosphorus Total	Sulfate (SO ₄)
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ15	Surface		4/15/2013	0.260	< 0.02	-	0.300	0.0400	0.0200	< 0.003	< 0.003	-	0.0150	1.50
	WQ15	Surface		5/13/2013	0.170	< 0.02	-	0.300	0.0400	0.0300	< 0.003	< 0.003	-	< 0.001	1.40
	WQ15	Surface		5/22/2013	0.210	< 0.02	-	0.300	0.0700	0.0680	< 0.003	< 0.003	-	0.0350	3.80
	WQ15	Surface		5/27/2013	0.120	< 0.02	-	0.300	< 0.02	0.00700	< 0.003	< 0.003	-	< 0.001	0.800
	WQ15	Surface		6/6/2013	0.110	< 0.02	-	0.300	< 0.02	0.0320	< 0.003	< 0.003	-	0.0100	0.800
	WQ15	Surface		6/10/2013	0.0800	< 0.02	-	0.300	0.0300	0.0100	< 0.003	< 0.003	-	< 0.001	0.800
	WQ15	Surface		6/17/2013	0.230	< 0.02	-	0.300	0.0200	0.0170	< 0.003	< 0.003	-	0.0250	0.700
	WQ15	Surface		4/13/2014	0.0900	<0.02	-	0.300	0.0300	0.0430	0.00500	<0.003	-	<0.01	0.700
	WQ15	Surface		7/2/2014	0.210	<0.02	-	0.300	0.0300	0.00600	<0.003	<0.003	-	<0.010	0.500
	WQ15	Surface		9/24/2014	0.350	<0.02	-	0.200	0.0700	<0.005	<0.003	<0.003	-	<0.01	0.500
	WQ15	Surface		12/8/2014	0.130	<0.02	-	0.600	0.0900	<0.005	<0.003	<0.003	-	<0.010	0.900
	WQ16	Surface		9/24/2012	0.310	< 0.02	-	0.300	0.0400	0.0110	< 0.003	< 0.003	-	0.00700	1.00
	WQ16	Surface		10/15/2012	< 0.08	< 0.02	-	0.100	0.0400	0.0430	< 0.003	0.0240	-	0.00700	1.40
	WQ16	Surface		11/13/2012	0.200	< 0.02	-	0.200	0.0300	< 0.005	< 0.003	0.00500	-	0.00300	1.00
	WQ16	Surface		1/13/2013	0.240	< 0.02	-	0.300	0.0500	0.0150	< 0.003	< 0.003	-	0.00400	2.10
	WQ16	Surface		2/12/2013	< 0.08	0.0200	-	0.400	0.0400	0.0490	0.00400	< 0.003	-	< 0.001	1.90
	WQ16	Surface		3/11/2013	0.660	< 0.02	-	0.300	0.0400	0.0650	< 0.003	< 0.003	-	0.0390	1.70
	WQ16	Surface		4/15/2013	0.190	< 0.02	-	0.300	0.0400	0.0300	< 0.003	< 0.003	-	0.00900	1.80
	WQ16	Surface		5/13/2013	0.0900	< 0.02	-	0.300	0.0400	0.0460	< 0.003	< 0.003	-	< 0.001	1.50
	WQ16	Surface		5/22/2013	0.230	< 0.02	-	0.300	0.0400	0.0110	< 0.003	< 0.003	-	0.0240	1.60
	WQ16	Surface		5/27/2013	0.0900	< 0.02	-	0.300	< 0.02	0.0150	< 0.003	< 0.003	-	< 0.001	0.900
	WQ16	Surface		6/6/2013	< 0.08	< 0.02	-	0.300	< 0.02	0.0230	< 0.003	< 0.003	-	0.0100	0.900
	WQ16	Surface		6/10/2013	0.250	< 0.02	-	0.300	0.0300	0.0160	< 0.003	< 0.003	-	< 0.001	1.00
	WQ16	Surface		6/17/2013	0.250	< 0.02	-	0.300	0.0200	0.0170	< 0.003	< 0.003	-	< 0.001	0.900
	WQ16	Surface		4/13/2014	0.180	<0.02	-	0.300	0.0300	0.0300	<0.003	<0.003	-	<0.01	0.900
	WQ16	Surface		7/2/2014	0.420	<0.02	-	0.400	0.0300	0.00600	<0.003	0.00500	-	<0.010	0.800
	WQ16	Surface		9/24/2014	1.84	<0.02	-	<0.1	0.0700	<0.005	<0.003	<0.003	-	<0.01	0.600
	WQ16	Surface		12/8/2014	0.0900	<0.02	-	0.100	0.0600	<0.005	<0.003	<0.003	-	<0.010	1.00
	WQ17	Surface		12/12/2011	0.690	0.0300	-	0.300	0.0500	0.0440	< 0.003	< 0.003	-	< 0.001	2.60
	WQ17	Surface		3/12/2012	< 0.08	< 0.02	-	0.200	0.0500	0.0730	< 0.003	< 0.003	-	< 0.001	4.00
	WQ17	Surface	Dup	6/18/2012	0.200	< 0.02	-	0.300	0.0400	0.00900	< 0.003	< 0.003	-	< 0.001	0.700
	WQ17	Surface		6/18/2012	0.110	< 0.02	-	0.200	0.0400	0.00500	< 0.003	< 0.003	-	< 0.001	0.700
	WQ17	Surface	Dup	9/17/2012	0.120	< 0.02	-	< 0.1	0.0500	0.0120	< 0.003	< 0.003	-	0.00100	2.40
	WQ17	Surface		9/17/2012	< 0.08	< 0.02	-	< 0.1	0.0500	0.0140	< 0.003	< 0.003	-	0.00100	2.50
	WQ17	Surface		1/13/2013	< 0.08	< 0.02	-	0.300	0.0600	0.0940	< 0.003	< 0.003	-	< 0.001	4.20
	WQ18	Surface		12/12/2011	0.290	0.0400	-	0.500	0.130	0.0880	< 0.003	0.0210	-	0.0290	1.50
	WQ18	Surface		3/12/2012	< 0.08	< 0.02	-	0.500	0.150	0.0760	< 0.003	0.0310	-	0.0370	2.20
	WQ18	Surface		6/19/2012	0.330	< 0.02	-	0.500	0.130	0.00900	< 0.003	< 0.003	-	0.0250	1.00
	WQ18	Surface		9/18/2012	0.360	< 0.02	-	< 0.1	0.120	< 0.005	< 0.003	< 0.003	-	0.0290	1.50
	WQ18	Surface		1/16/2013	1.68	0.100	-	2.40	0.140	0.153	< 0.003	< 0.003	-	0.0530	2.40
	WQ19	Surface		6/18/2012	0.100	< 0.02	-	0.900	0.0700	0.0890	< 0.003	< 0.003	-	< 0.001	2.20
	WQ19	Surface		9/17/2012	< 0.08	< 0.02	-	1.20	0.0600	0.130	< 0.003	< 0.003	-	0.00200	3.00
	WQ19	Surface		12/10/2012	< 0.08	< 0.02	-	1.60	0.0600	0.319	0.00800	< 0.003	-	0.00100	3.90
	WQ26	Surface		1/13/2013	< 0.08	< 0.02	-	0.300	0.0700	0.0470	< 0.003	< 0.003	-	0.00800	3.80

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Anions and Nutrients										
					Total Kjeldahl	Ammonia, Total (as N)	Bromide (Br)	Chloride (Cl)	Fluoride (F)	Nitrate (as N)	Nitrite (as N)	Orthophosphate-Dissolved	Phosphorus (P)-	Phosphorus Total	Sulfate (SO ₄)
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ26	Surface		2/12/2013	< 0.08	< 0.02	-	0.400	0.0800	0.0290	0.00300	< 0.003	-	0.00600	3.40
	WQ26	Surface		3/11/2013	< 0.08	< 0.02	-	0.300	0.0700	0.0470	< 0.003	< 0.003	-	0.0210	3.70
	WQ26	Surface		4/15/2013	0.150	< 0.02	-	0.400	0.0700	0.0540	< 0.003	< 0.003	-	0.00900	3.00
	WQ26	Surface		5/13/2013	0.180	< 0.02	-	0.300	0.0400	0.0190	< 0.003	< 0.003	-	< 0.001	1.40
	WQ26	Surface		5/22/2013	0.130	< 0.02	-	0.200	0.0400	0.0100	< 0.003	< 0.003	-	0.0230	1.70
	WQ26	Surface		5/27/2013	0.120	< 0.02	-	0.200	0.0300	0.00700	< 0.003	< 0.003	-	< 0.001	0.700
	WQ26	Surface		6/6/2013	0.120	< 0.02	-	0.300	< 0.02	0.0190	< 0.003	< 0.003	-	0.0150	0.700
	WQ26	Surface		6/10/2013	0.0900	< 0.02	-	0.300	0.0400	0.0140	< 0.003	< 0.003	-	< 0.001	0.900
	WQ26	Surface		6/17/2013	0.110	< 0.02	-	0.400	0.0300	0.0340	< 0.003	< 0.003	-	0.0330	0.900
L1762266-6	WQ26	Surface	Dup	4/27/2016	0.350	<0.0050	<0.050	<0.50	0.0280	<0.0050	<0.0010	0.00100	0.0178	-	1.02
L1762266-3	WQ26	Surface		4/27/2016	0.369	<0.0050	<0.050	<0.50	0.0270	<0.0050	<0.0010	0.00140	0.0172	-	1.04
L1764648-3	WQ26	Surface	Dup	5/3/2016	0.259	<0.0050	<0.050	<0.50	0.0260	<0.0050	<0.0010	0.00190	0.0102	-	1.01
L1764648-2	WQ26	Surface		5/3/2016	0.255	<0.0050	<0.050	<0.50	0.0290	<0.0050	<0.0010	0.00210	0.0122	-	1.09
L1767107-3	WQ26	Surface		5/9/2016	0.208	<0.0050	<0.050	<0.50	0.0290	<0.0050	<0.0010	0.00140	0.00810	-	1.17
L1770672-3	WQ26	Surface		5/16/2016	0.191	<0.0050	<0.050	<0.50	0.0320	<0.0050	<0.0010	0.00270	0.0111	-	1.28
L1774541-2	WQ26	Surface		5/25/2016	0.150	<0.0050	<0.050	<0.50	0.0340	<0.0050	<0.0010	0.00190	0.00460	-	1.37
L1788643-2	WQ26	Surface		6/22/2016	0.151	<0.0050	<0.050	<0.50	0.0280	<0.0050	<0.0010	0.00290	0.00680	-	0.910
L1808945-2	WQ26	Surface	Dup	8/3/2016	0.157	<0.0050	<0.050	<0.50	0.0330	<0.0050	<0.0010	0.00270	0.00620	-	1.16
L1808945-6	WQ26	Surface		8/3/2016	0.164	<0.0050	<0.050	<0.50	0.0330	<0.0050	<0.0010	0.00210	0.00610	-	1.16
L1812856-2	WQ26	Surface		8/10/2016	0.155	<0.0050	<0.050	<0.50	0.0350	<0.0050	<0.0010	0.00280	0.00680	-	1.33
L1815654-2	WQ26	Surface		8/16/2016	0.115	<0.0050	<0.050	<0.50	0.0390	<0.0050	<0.0010	0.00240	0.00440	-	1.49
L1819041-4	WQ26	Surface	Dup	8/23/2016	0.156	<0.0050	<0.050	<0.50	0.0410	<0.0050	<0.0010	0.00350	0.00680	-	1.52
L1819041-8	WQ26	Surface		8/23/2016	0.145	<0.0050	<0.050	<0.50	0.0400	<0.0050	<0.0010	0.00340	0.00690	-	1.52
L1823224-5	WQ26	Surface		8/31/2016	0.124	<0.0050	<0.050	<0.50	0.0390	<0.0050	<0.0010	0.00310	0.00770	-	1.60
L1826303-5	WQ26	Surface		9/7/2016	0.158	<0.0050	<0.050	<0.50	0.0380	<0.0050	<0.0010	0.00340	0.00820	-	1.41
L1913531-5	WQ26	Surface		4/12/2017	0.113	<0.0050	<0.050	<0.50	0.0410	0.0198	<0.0010	0.00370	0.00520	-	2.59
L1926080-2	WQ26	Surface		5/11/2017	0.365	<0.0050	<0.050	<0.50	0.0250	0.00670	<0.0010	0.00200	0.0154	-	0.790
L1928943-5	WQ26	Surface	Dup	5/17/2017	0.293	<0.0050	<0.050	<0.50	0.0260	<0.0050	<0.0010	0.00180	0.0119	-	0.740
L1928943-1	WQ26	Surface		5/17/2017	0.308	<0.0050	<0.050	<0.50	0.0260	<0.0050	<0.0010	0.00230	0.0128	-	0.750
L1932034-3	WQ26	Surface		5/24/2017	0.375	<0.0050	<0.050	<0.50	0.0230	<0.0050	<0.0010	0.00130	0.0204	-	0.650
L1935151-5	WQ26	Surface	Dup	5/30/2017	0.340	<0.0050	<0.050	<0.50	0.0220	<0.0050	<0.0010	0.00150	0.0160	-	0.620
L1935151-1	WQ26	Surface		5/30/2017	0.332	<0.0050	<0.050	<0.50	0.0210	<0.0050	<0.0010	0.00130	0.0250	-	0.610
L1939712-4	WQ26	Surface	Dup	6/7/2017	0.237	<0.0050	<0.050	<0.50	0.0290	<0.0050	<0.0010	0.00140	0.00790	-	0.740
L1939712-3	WQ26	Surface		6/7/2017	0.226	<0.0050	<0.050	<0.50	0.0270	<0.0050	<0.0010	0.00100	0.00670	-	0.740
L1964508-1	WQ26	Surface		7/24/2017	0.101	<0.0050	<0.050	<0.50	0.0390	<0.0050	<0.0010	0.00250	0.00530	-	1.83
L1984944-4	WQ26	Surface		8/30/2017	0.0710	<0.0050	<0.050	<0.50	0.0430	<0.0050	<0.0010	0.00240	0.00300	-	2.60
L1988190-3	WQ26	Surface		9/6/2017	<0.050	<0.0050	<0.050	<0.50	0.0430	<0.0050	<0.0010	0.00260	0.00460	-	2.40
L1991279-3	WQ26	Surface		9/13/2017	0.0630	<0.0050	<0.050	<0.50	0.0460	<0.0050	<0.0010	0.00270	0.00390	-	2.62
L1995655-1	WQ26	Surface		9/21/2017	0.0800	<0.0050	<0.050	<0.50	0.0430	<0.0050	<0.0010	0.00320	0.00320	-	2.56
L1999769-1	WQ26	Surface		9/28/2017	0.0750	<0.0050	<0.050	<0.50	0.0440	<0.0050	<0.0010	0.00280	0.00390	-	2.46
L2009845-5	WQ26	Surface		10/17/2017	0.252	<0.0050	<0.050	<0.50	0.0380	<0.0050	<0.0010	0.00370	0.0244	-	2.18
L2020333-5	WQ26	Surface		11/7/2017	0.131	<0.0050	<0.050	<0.50	0.0400	<0.0050	<0.0010	0.00280	0.00870	-	2.27
L2035356-3	WQ26	Surface		12/12/2017	0.114	<0.0050	<0.050	<0.50	0.0360	0.0273	<0.0010	0.00370	0.00690	-	2.09
L2049678-3	WQ26	Surface		1/24/2018	0.0690	<0.0050	<0.050	<0.50	0.0440	0.0285	<0.0010	0.00510	0.00650	-	2.67

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					Total Kjeldahl	Ammonia, Total (as N)	Bromide (Br)	Chloride (Cl)	Fluoride (F)	Nitrate (as N)	Nitrite (as N)	Orthophosphate-Dissolved	Phosphorus (P)-	Phosphorus Total	Sulfate (SO ₄)
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2057605-1	WQ26	Surface		2/14/2018	0.0570	<0.0050	<0.050	<0.50	0.0400	0.0268	<0.0010	0.00470	0.00460	-	2.73
L2074294-4	WQ26	Surface		3/28/2018	<0.050	<0.0050	<0.050	<0.50	0.0440	0.0254	<0.0010	0.00490	0.00770	-	2.92
L2081503-5	WQ26	Surface		4/17/2018	0.0660	<0.0050	<0.050	<0.50	0.0450	0.0153	<0.0010	0.00460	0.00670	-	2.92
L2097084-5	WQ26	Surface		5/16/2018	0.325	<0.0050	<0.050	<0.50	0.0260	<0.0050	<0.0010	0.00220	0.0234	-	0.540
L2103632-4	WQ26	Surface		5/29/2018	0.169	<0.0050	<0.050	<0.50	0.0310	<0.0050	<0.0010	0.00250	0.0112	-	0.930
L2132986-5	WQ26	Surface		7/18/2018	0.0880	<0.0050	<0.050	<0.50	0.0410	<0.0050	<0.0010	0.00350	0.00770	-	1.65
L2143640-4	WQ26	Surface	Dup	8/7/2018	0.108	<0.0050	<0.050	<0.50	0.0380	<0.0050	<0.0010	0.00350	0.00770	-	1.89
L2143640-3	WQ26	Surface		8/7/2018	0.100	<0.0050	<0.050	<0.50	0.0380	<0.0050	<0.0010	0.00420	0.00770	-	1.89
L2156026-1	WQ26	Surface		8/28/2018	0.0510	<0.0050	<0.050	<0.50	0.0440	<0.0050	<0.0010	0.00530	0.00870	-	2.49
L2159605-1	WQ26	Surface		9/4/2018	<0.050	<0.0050	<0.050	<0.50	0.0440	<0.0050	<0.0010	0.00490	0.00750	-	2.30
L2160840-4	WQ26	Surface	Dup	9/7/2018	0.0560	<0.0050	<0.050	<0.50	0.0460	<0.0050	<0.0010	0.00500	0.00750	-	2.26
L2160840-1	WQ26	Surface		9/7/2018	0.0510	<0.0050	<0.050	<0.50	0.0460	<0.0050	<0.0010	0.00500	0.00740	-	2.29
L2163669-3	WQ26	Surface		9/11/2018	0.0530	<0.0050	<0.050	<0.50	0.0490	<0.0050	<0.0010	0.00530	0.00800	-	2.52
L2188218-4	WQ26	Surface		10/26/2018	0.0860	0.00770	<0.050	<0.50	0.0390	<0.0050	<0.0010	0.00350	0.00800	-	1.95
L2203408-1	WQ26	Surface		11/27/2018	0.134	<0.0050	<0.050	<0.50	0.0380	<0.0050	<0.0010	0.00370	0.00640	-	1.79
L2213246-2	WQ26	Surface		12/18/2018	0.0760	<0.0050	<0.050	<0.50	0.0400	0.0150	<0.0010	0.00460	0.00730	-	1.93
L2227701-2	WQ26	Surface		1/30/2019	<0.050	<0.0050	<0.050	<0.50	0.0430	0.0168	<0.0010	0.00440	0.00670	-	2.37
L2232050-1	WQ26	Surface		2/11/2019	<0.050	<0.0050	<0.050	<0.50	0.0420	0.0312	<0.0010	0.00550	0.00730	-	2.54
L2244756-5	WQ26	Surface	Dup	3/13/2019	<0.050	<0.0050	<0.050	<0.50	0.0470	0.0886	<0.0010	0.00490	0.00680	-	2.75
L2244756-2	WQ26	Surface		3/13/2019	<0.050	0.00710	<0.050	<0.50	0.0500	0.0429	<0.0010	0.00510	0.00720	-	2.74
L2256053-2	WQ26	Surface		4/8/2019	0.142	0.00670	<0.050	<0.50	0.0390	<0.0050	<0.0010	0.00320	0.0107	-	2.01
L2269368-2	WQ26	Surface		5/4/2019	0.284	<0.0050	<0.050	<0.50	0.0380	<0.0050	<0.0010	0.00120	0.0187	-	1.18
L2273497-4	WQ26	Surface		5/13/2019	0.325	0.00750	<0.050	<0.50	0.0260	<0.0050	<0.0010	<0.0010	0.0167	-	0.820
L2277964-7	WQ26	Surface		5/21/2019	0.432	<0.0050	<0.050	<0.50	0.0260	<0.0050	<0.0010	0.00140	0.0358	-	0.730
L2282975-2	WQ26	Surface		5/29/2019	0.255	<0.0050	<0.050	<0.50	0.0330	<0.0050	<0.0010	<0.0010	0.0102	-	0.800
L2285579-2	WQ26	Surface		6/3/2019	0.232	0.00850	<0.050	<0.50	0.0320	<0.0050	<0.0010	0.00100	0.00950	-	0.830
L2312637-3	WQ26	Surface		7/16/2019	0.191	<0.0050	<0.050	<0.50	0.0340	<0.0050	<0.0010	0.00210	0.00750	-	0.740
L2326388-3	WQ26	Surface		8/8/2019	0.152	<0.0050	<0.050	<0.50	0.0370	<0.0050	<0.0010	0.00190	0.00740	-	0.880
L2349445-7	WQ26	Surface	Dup	9/16/2019	0.135	0.00730	<0.050	<0.50	0.0360	<0.0050	<0.0010	0.00180	0.00540	-	1.52
L2349445-5	WQ26	Surface		9/16/2019	0.0970	0.00670	<0.050	<0.50	0.0350	<0.0050	<0.0010	0.00180	0.00550	-	1.51
L2371052-6	WQ26	Surface	Dup	10/22/2019	0.170	0.00630	<0.050	<0.50	0.0370	<0.0050	<0.0010	0.00300	0.0117	-	1.34
L2371052-4	WQ26	Surface		10/22/2019	0.183	0.00570	<0.050	<0.50	0.0380	<0.0050	<0.0010	0.00290	0.0117	-	1.36
L2383392-2	WQ26	Surface		11/14/2019	0.149	0.00540	<0.050	<0.50	0.0350	<0.0050	<0.0010	0.00210	0.00530	-	1.29
VA19A0726-001	WQ26	Surface		12/16/2019	0.0970	0.00530	<0.050	<0.50	0.0340	<0.0050	<0.0010	0.00210	0.00710	-	1.48
VA20A0688-002	WQ26	Surface		1/21/2020	0.107	<0.0050	<0.050	<0.50	0.0400	0.0195	<0.0010	0.00320	0.00580	-	2.12
VA20A1887-002	WQ26	Surface		2/13/2020	0.0780	<0.0050	<0.050	<0.50	0.0410	0.0202	<0.0010	0.00430	0.0249	-	2.34
VA20A3516-002	WQ26	Surface		3/16/2020	0.0710	<0.0050	<0.050	<0.50	0.0450	0.0196	<0.0010	0.00380	0.00640	-	2.64
VA20A4555-001	WQ26	Surface		4/7/2020	0.0530	<0.0050	<0.050	<0.50	0.0410	0.0209	<0.0010	0.00390	0.00480	-	2.52
VA20A6574-003	WQ26	Surface		5/14/2020	0.244	0.00700	<0.050	<0.50	0.0260	<0.0050	<0.0010	0.00220	0.0138	-	0.600
VA20B2156-002	WQ26	Surface		8/5/2020	0.118	0.00860	<0.050	<0.50	0.0390	<0.0050	<0.0010	0.00360	0.00620	-	1.61
VA20C1166-003	WQ26	Surface		11/17/2020	0.157	<0.0050	<0.050	<0.50	0.0320	<0.0050	<0.0010	0.00210	0.00960	-	1.15
	WQ27	Surface		4/13/2014	0.160	<0.02	-	0.300	0.0600	0.0430	<0.003	<0.003	-	<0.01	2.70
	WQ27	Surface		7/2/2014	0.170	<0.02	-	0.300	0.0400	0.0200	<0.003	0.00600	-	<0.010	1.20
	WQ27	Surface		9/24/2014	<0.08	<0.02	-	<0.1	0.0900	<0.005	<0.003	<0.003	-	<0.01	2.90

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LabID	Site	Depth	QAQC	Date	Anions and Nutrients										
					Total Kjeldahl	Ammonia, Total (as N)	Bromide (Br)	Chloride (Cl)	Fluoride (F)	Nitrate (as N)	Nitrite (as N)	Orthophosphate-Dissolved	Phosphorus (P)-	Phosphorus Total	Sulfate (SO ₄)
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ27	Surface		12/9/2014	<0.08	0.0300	-	0.100	0.0700	0.0370	<0.003	<0.003	-	<0.010	3.10
L1762266-4	WQ27	Surface		4/27/2016	0.329	<0.0050	<0.050	<0.50	0.0250	<0.0050	<0.0010	0.00130	0.0151	-	0.870
L1764648-6	WQ27	Surface		5/3/2016	0.248	<0.0050	<0.050	<0.50	0.0260	<0.0050	<0.0010	0.00190	0.0101	-	1.01
L1767107-4	WQ27	Surface		5/9/2016	0.204	<0.0050	<0.050	<0.50	0.0250	<0.0050	<0.0010	0.00110	0.00670	-	1.05
L1770672-4	WQ27	Surface		5/16/2016	0.184	<0.0050	<0.050	<0.50	0.0270	<0.0050	<0.0010	0.00210	0.0116	-	1.15
L1774541-3	WQ27	Surface		5/25/2016	0.143	<0.0050	<0.050	<0.50	0.0290	<0.0050	<0.0010	0.00180	0.00540	-	1.23
L1788643-6	WQ27	Surface	Dup	6/22/2016	0.165	<0.0050	<0.050	<0.50	0.0240	<0.0050	<0.0010	0.00280	0.00730	-	0.830
L1788643-3	WQ27	Surface		6/22/2016	0.155	<0.0050	<0.050	<0.50	0.0240	<0.0050	<0.0010	0.00260	0.00630	-	0.830
L1808945-3	WQ27	Surface		8/3/2016	0.157	<0.0050	<0.050	<0.50	0.0290	<0.0050	<0.0010	0.00270	0.00600	-	1.08
L1812856-3	WQ27	Surface		8/10/2016	0.150	<0.0050	<0.050	<0.50	0.0300	<0.0050	<0.0010	0.00310	0.00660	-	1.23
L1815654-3	WQ27	Surface		8/16/2016	0.116	<0.0050	<0.050	<0.50	0.0350	<0.0050	<0.0010	0.00280	0.00620	-	1.44
L1819041-10	WQ27	Surface		8/23/2016	0.170	<0.0050	<0.050	<0.50	0.0350	<0.0050	<0.0010	0.00330	0.00670	-	1.43
L1823224-6	WQ27	Surface		8/31/2016	0.140	<0.0050	<0.050	<0.50	0.0320	<0.0050	<0.0010	0.00290	0.00670	-	1.52
L1826303-2	WQ27	Surface		9/7/2016	0.169	<0.0050	<0.050	<0.50	0.0310	<0.0050	<0.0010	0.00300	0.00910	-	1.33
L1913006-2	WQ27	Surface		4/11/2017	0.0770	<0.0050	<0.050	<0.50	0.0390	0.0154	<0.0010	0.00530	0.00450	-	3.05
L1925486-3	WQ27	Surface		5/10/2017	0.383	<0.0050	<0.050	<0.50	0.0230	<0.0050	<0.0010	0.00200	0.0169	-	0.750
L1928943-2	WQ27	Surface		5/17/2017	0.310	<0.0050	<0.050	<0.50	0.0240	<0.0050	<0.0010	0.00240	0.0128	-	0.690
L1932034-2	WQ27	Surface		5/24/2017	0.358	<0.0050	<0.050	<0.50	0.0210	<0.0050	<0.0010	0.00180	0.0191	-	0.590
L1935151-2	WQ27	Surface		5/30/2017	0.359	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	0.00150	0.0250	-	0.570
L1939712-2	WQ27	Surface		6/7/2017	0.227	<0.0050	<0.050	<0.50	0.0240	<0.0050	<0.0010	0.00140	0.00830	-	0.680
L1961670-3	WQ27	Surface		7/18/2017	0.111	<0.0050	<0.050	<0.50	0.0340	<0.0050	<0.0010	0.00200	0.00430	-	1.84
L1984944-3	WQ27	Surface		8/30/2017	0.0660	<0.0050	<0.050	<0.50	0.0400	0.0105	<0.0010	0.00270	0.00360	-	2.94
L1988832-2	WQ27	Surface		9/8/2017	0.0600	<0.0050	<0.050	<0.50	0.0420	<0.0050	0.00230	0.00350	0.00540	-	2.83
L1991279-2	WQ27	Surface	Dup	9/13/2017	0.0680	<0.0050	<0.050	<0.50	0.0410	<0.0050	<0.0010	0.00330	0.00500	-	2.82
L1991279-6	WQ27	Surface		9/13/2017	0.0710	<0.0050	<0.050	<0.50	0.0400	<0.0050	<0.0010	0.00330	0.00500	-	2.83
L1995655-2	WQ27	Surface		9/21/2017	0.0860	<0.0050	<0.050	<0.50	0.0390	<0.0050	<0.0010	0.00390	0.00450	-	2.58
L1999769-2	WQ27	Surface		9/28/2017	0.0680	<0.0050	<0.050	<0.50	0.0380	<0.0050	<0.0010	0.00340	0.00470	-	2.55
L2011329-3	WQ27	Surface		10/19/2017	0.253	<0.0050	<0.050	0.520	0.0570	<0.0050	<0.0010	0.00230	0.00800	-	2.52
L2020946-2	WQ27	Surface		11/8/2017	0.148	<0.0050	<0.050	<0.50	0.0310	<0.0050	<0.0010	0.00310	0.00660	-	1.80
L2035356-2	WQ27	Surface		12/12/2017	0.0780	<0.0050	<0.050	<0.50	0.0300	0.0128	<0.0010	0.00410	0.00670	-	2.04
L2049678-4	WQ27	Surface		1/24/2018	0.0580	<0.0050	<0.050	<0.50	0.0360	0.0252	<0.0010	0.00590	0.00830	-	2.68
L2057605-2	WQ27	Surface		2/14/2018	0.0520	<0.0050	<0.050	<0.50	0.0360	0.0264	<0.0010	0.00540	0.00620	-	2.76
L2074294-5	WQ27	Surface		3/28/2018	0.0550	<0.0050	<0.050	<0.50	0.0410	0.0275	<0.0010	0.00560	0.00850	-	3.02
L2081503-6	WQ27	Surface		4/17/2018	0.0620	<0.0050	<0.050	<0.50	0.0390	0.0187	<0.0010	0.00570	0.00780	-	2.98
L2093061-1	WQ27	Surface		5/9/2018	0.416	0.00500	<0.050	<0.50	0.0220	<0.0050	<0.0010	0.00390	0.0402	-	0.510
L2097084-6	WQ27	Surface		5/16/2018	0.272	<0.0050	<0.050	<0.50	0.0230	<0.0050	<0.0010	0.00210	0.0211	-	0.490
L2100419-3	WQ27	Surface	Dup	5/23/2018	0.231	<0.0050	<0.050	<0.50	0.0250	<0.0050	<0.0010	0.00230	0.0110	-	0.580
L2100419-1	WQ27	Surface		5/23/2018	0.211	<0.0050	<0.050	<0.50	0.0230	<0.0050	<0.0010	0.00240	0.0112	-	0.590
L2103632-5	WQ27	Surface		5/29/2018	0.170	<0.0050	<0.050	<0.50	0.0250	<0.0050	<0.0010	0.00220	0.00890	-	0.810
L2106738-3	WQ27	Surface	Dup	6/4/2018	0.158	<0.0050	<0.050	<0.50	0.0300	<0.0050	<0.0010	0.00240	0.00930	-	0.840
L2106738-1	WQ27	Surface		6/4/2018	0.173	<0.0050	<0.050	<0.50	0.0300	<0.0050	<0.0010	0.00180	0.00760	-	0.850
L2132986-4	WQ27	Surface		7/18/2018	0.0860	<0.0050	<0.050	<0.50	0.0350	<0.0050	<0.0010	0.00380	0.00740	-	1.64
L2143640-8	WQ27	Surface		8/7/2018	0.104	<0.0050	<0.050	<0.50	0.0330	0.00770	<0.0010	0.00400	0.00710	-	1.95
L2156026-4	WQ27	Surface	Dup	8/28/2018	0.0560	<0.0050	<0.050	<0.50	0.0390	0.00580	<0.0010	0.00570	0.00770	-	2.69

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LabID	Site	Depth	QAQC	Date	Anions and Nutrients										
					Total Kjeldahl	Ammonia, Total (as N)	Bromide (Br)	Chloride (Cl)	Fluoride (F)	Nitrate (as N)	Nitrite (as N)	Orthophosphate-Dissolved	Phosphorus (P)-	Phosphorus Total	Sulfate (SO ₄)
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2156026-2	WQ27	Surface		8/28/2018	0.0710	<0.0050	<0.050	<0.50	0.0390	0.00580	<0.0010	0.00530	0.00820	-	2.69
L2159605-2	WQ27	Surface		9/4/2018	0.0550	<0.0050	<0.050	<0.50	0.0430	0.00530	<0.0010	0.00500	0.00770	-	2.56
L2160840-2	WQ27	Surface		9/7/2018	0.0500	<0.0050	<0.050	<0.50	0.0410	0.00540	<0.0010	0.00500	0.00690	-	2.53
L2163669-4	WQ27	Surface		9/11/2018	0.0540	<0.0050	<0.050	<0.50	0.0440	<0.0050	<0.0010	0.00550	0.00800	-	2.72
L2188218-3	WQ27	Surface		10/26/2018	0.0920	<0.0050	<0.050	<0.50	0.0340	<0.0050	<0.0010	0.00380	0.00650	-	1.91
L2204508-6	WQ27	Surface	Dup	11/29/2018	0.123	<0.0050	<0.050	<0.50	0.0320	<0.0050	<0.0010	0.00360	0.00840	-	1.62
L2204508-4	WQ27	Surface		11/29/2018	0.119	<0.0050	<0.050	<0.50	0.0320	<0.0050	<0.0010	0.00350	0.00700	-	1.61
L2213246-3	WQ27	Surface		12/18/2018	0.0620	<0.0050	<0.050	<0.50	0.0360	0.0156	<0.0010	0.00470	0.00790	-	1.95
L2227701-3	WQ27	Surface		1/30/2019	<0.050	<0.0050	<0.050	<0.50	0.0400	0.0189	<0.0010	0.00500	0.00750	-	2.38
L2232050-2	WQ27	Surface		2/11/2019	<0.050	<0.0050	<0.050	<0.50	0.0380	0.0337	<0.0010	0.00610	0.00760	-	2.58
L2244756-3	WQ27	Surface		3/13/2019	<0.050	<0.0050	<0.050	<0.50	0.0450	0.0512	<0.0010	0.00630	0.00910	-	2.91
L2256053-3	WQ27	Surface		4/8/2019	0.101	0.00660	<0.050	<0.50	0.0400	0.00690	<0.0010	0.00350	0.00880	-	2.08
L2269368-3	WQ27	Surface		5/4/2019	0.288	<0.0050	<0.050	<0.50	0.0340	<0.0050	<0.0010	0.00110	0.0171	-	1.09
L2274397-1	WQ27	Surface		5/14/2019	0.296	<0.0050	<0.050	<0.50	0.0210	<0.0050	<0.0010	0.00110	0.0634	-	0.790
L2277964-6	WQ27	Surface		5/21/2019	0.376	<0.0050	<0.050	<0.50	0.0230	<0.0050	<0.0010	0.00150	0.0281	-	0.630
L2282975-3	WQ27	Surface		5/29/2019	0.230	<0.0050	<0.050	<0.50	0.0250	<0.0050	<0.0010	0.00120	0.0101	-	0.710
L2285579-3	WQ27	Surface		6/3/2019	0.217	0.00600	<0.050	<0.50	0.0240	<0.0050	<0.0010	0.00130	0.00880	-	0.750
L2312637-4	WQ27	Surface		7/16/2019	0.192	0.0123	<0.050	<0.50	0.0240	<0.0050	<0.0010	0.00170	0.00740	-	0.710
L2326388-2	WQ27	Surface		8/8/2019	0.182	0.00720	<0.050	<0.50	0.0320	<0.0050	<0.0010	0.00210	0.00900	-	0.810
L2350223-2	WQ27	Surface		9/17/2019	0.127	0.00640	<0.050	<0.50	0.0310	<0.0050	<0.0010	0.00260	0.00770	-	1.56
L2372667-2	WQ27	Surface		10/23/2019	0.157	0.00820	<0.050	<0.50	0.0290	<0.0050	<0.0010	0.00140	0.00670	-	1.17
L2383392-3	WQ27	Surface		11/14/2019	0.143	0.0124	<0.050	<0.50	0.0310	<0.0050	<0.0010	0.00150	0.00610	-	1.21
VA19A0726-002	WQ27	Surface		12/16/2019	0.0990	<0.0050	<0.050	<0.50	0.0310	0.00550	<0.0010	0.00230	0.00780	-	1.42
VA20A0812-002	WQ27	Surface		1/23/2020	0.100	0.00690	<0.050	<0.50	0.0320	0.0174	<0.0010	0.00300	0.00770	-	2.12
VA20A1887-005	WQ27	Surface		2/13/2020	0.0800	<0.0050	<0.050	<0.50	0.0340	0.0194	<0.0010	0.00460	0.00730	-	2.40
VA20A3516-003	WQ27	Surface		3/16/2020	0.0720	<0.0050	<0.050	<0.50	0.0400	0.0237	<0.0010	0.00490	0.00740	-	2.77
VA20A4369-002	WQ27	Surface		4/1/2020	0.0580	<0.0050	<0.050	<0.50	0.0390	0.0201	<0.0010	0.00460	0.00630	-	2.70
L1913006-4	WQ28	Surface		4/11/2017	0.0800	<0.0050	<0.050	<0.50	0.0390	0.0107	<0.0010	0.00520	0.00570	-	2.97
L1925486-2	WQ28	Surface		5/10/2017	0.377	<0.0050	<0.050	<0.50	0.0230	<0.0050	<0.0010	0.00210	0.0158	-	0.730
L1928943-3	WQ28	Surface		5/17/2017	0.280	<0.0050	<0.050	<0.50	0.0240	<0.0050	<0.0010	0.00220	0.0122	-	0.670
L1932034-4	WQ28	Surface	Dup	5/24/2017	0.341	<0.0050	<0.050	<0.50	0.0210	<0.0050	<0.0010	0.00150	0.0162	-	0.580
L1932034-1	WQ28	Surface		5/24/2017	0.371	<0.0050	<0.050	<0.50	0.0210	<0.0050	<0.0010	0.00140	0.0154	-	0.580
L1935151-3	WQ28	Surface		5/30/2017	0.335	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	0.00130	0.0157	-	0.560
L1939712-1	WQ28	Surface		6/7/2017	0.222	<0.0050	<0.050	<0.50	0.0230	<0.0050	<0.0010	0.00150	0.0137	-	0.660
L1961670-5	WQ28	Surface	Dup	7/18/2017	0.103	<0.0050	<0.050	<0.50	0.0350	0.00630	<0.0010	0.00200	0.00470	-	1.78
L1961670-4	WQ28	Surface		7/18/2017	0.103	<0.0050	<0.050	<0.50	0.0350	<0.0050	<0.0010	0.00210	0.00510	-	1.78
L1984944-2	WQ28	Surface		8/30/2017	0.0600	<0.0050	<0.050	<0.50	0.0410	<0.0050	<0.0010	0.00220	0.00680	-	2.87
L1988832-3	WQ28	Surface		9/8/2017	0.0600	<0.0050	<0.050	<0.50	0.0420	<0.0050	<0.0010	0.00370	0.00640	-	2.75
L1991279-1	WQ28	Surface		9/13/2017	0.0650	<0.0050	<0.050	<0.50	0.0400	<0.0050	<0.0010	0.00320	0.00560	-	2.77
L1995655-3	WQ28	Surface	Dup	9/21/2017	0.100	<0.0050	<0.050	<0.50	0.0360	<0.0050	<0.0010	0.00420	0.00610	-	2.54
L1995655-5	WQ28	Surface		9/21/2017	0.114	<0.0050	<0.050	<0.50	0.0370	<0.0050	<0.0010	0.00420	0.00620	-	2.55
L1999769-3	WQ28	Surface	Dup	9/28/2017	0.0680	<0.0050	<0.050	<0.50	0.0380	<0.0050	<0.0010	0.00380	0.00610	-	2.49
L1999769-4	WQ28	Surface		9/28/2017	0.0850	<0.0050	<0.050	<0.50	0.0380	<0.0050	<0.0010	0.00370	0.00590	-	2.49
L2011329-4	WQ28	Surface		10/19/2017	0.281	<0.0050	<0.050	0.530	0.0500	<0.0050	<0.0010	0.00210	0.00770	-	2.46

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LabID	Site	Depth	QAQC	Date	Anions and Nutrients										
					Total Kjeldahl	Ammonia, Total (as N)	Bromide (Br)	Chloride (Cl)	Fluoride (F)	Nitrate (as N)	Nitrite (as N)	Orthophosphate-Dissolved	Phosphorus (P)-	Phosphorus Total	Sulfate (SO ₄)
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2020946-3	WQ28	Surface		11/8/2017	0.136	<0.0050	<0.050	<0.50	0.0310	<0.0050	<0.0010	0.00320	0.00900	-	1.74
L2035356-1	WQ28	Surface		12/12/2017	0.0840	0.00610	<0.050	<0.50	0.0300	0.0117	<0.0010	0.00430	0.00820	-	1.99
L2049678-5	WQ28	Surface		1/24/2018	0.0720	<0.0050	<0.050	<0.50	0.0360	0.0228	<0.0010	0.00620	0.00800	-	2.61
L2057605-3	WQ28	Surface		2/14/2018	0.0550	<0.0050	<0.050	<0.50	0.0360	0.0236	<0.0010	0.00640	0.00690	-	2.70
L2074294-6	WQ28	Surface		3/28/2018	<0.050	<0.0050	<0.050	<0.50	0.0410	0.0255	<0.0010	0.00600	0.00870	-	2.95
L2081503-7	WQ28	Surface		4/17/2018	0.0700	<0.0050	<0.050	<0.50	0.0410	0.0166	<0.0010	0.00640	0.00960	-	2.91
L2093061-3	WQ28	Surface	Dup	5/9/2018	0.429	<0.0050	<0.050	<0.50	0.0220	<0.0050	<0.0010	0.00340	0.0483	-	0.490
L2093061-2	WQ28	Surface		5/9/2018	0.464	<0.0050	<0.050	<0.50	0.0210	<0.0050	<0.0010	0.00350	0.0415	-	0.490
L2097084-7	WQ28	Surface		5/16/2018	0.249	<0.0050	<0.050	<0.50	0.0220	<0.0050	<0.0010	0.00190	0.0309	-	0.470
L2100419-2	WQ28	Surface		5/23/2018	0.216	<0.0050	<0.050	<0.50	0.0220	<0.0050	<0.0010	0.00230	0.0113	-	0.570
L2103632-6	WQ28	Surface		5/29/2018	0.165	<0.0050	<0.050	<0.50	0.0250	<0.0050	<0.0010	0.00240	0.0100	-	0.770
L2106738-2	WQ28	Surface		6/4/2018	0.159	<0.0050	<0.050	<0.50	0.0290	<0.0050	<0.0010	0.00150	0.00690	-	0.820
L2132986-3	WQ28	Surface		7/18/2018	0.0960	<0.0050	<0.050	<0.50	0.0340	<0.0050	<0.0010	0.00420	0.00890	-	1.58
L2143640-7	WQ28	Surface		8/7/2018	0.116	<0.0050	<0.050	<0.50	0.0330	<0.0050	<0.0010	0.00450	0.00880	-	1.90
L2156026-3	WQ28	Surface		8/28/2018	0.0590	<0.0050	<0.050	<0.50	0.0400	<0.0050	<0.0010	0.00610	0.00950	-	2.64
L2159605-4	WQ28	Surface	Dup	9/4/2018	0.0540	<0.0050	<0.050	<0.50	0.0430	<0.0050	<0.0010	0.00520	0.0103	-	2.52
L2159605-3	WQ28	Surface		9/4/2018	0.0570	<0.0050	<0.050	<0.50	0.0430	<0.0050	<0.0010	0.00520	0.00710	-	2.53
L2160840-3	WQ28	Surface		9/7/2018	0.0600	<0.0050	<0.050	<0.50	0.0420	<0.0050	<0.0010	0.00560	0.00830	-	2.48
L2163669-5	WQ28	Surface		9/11/2018	0.0650	<0.0050	<0.050	<0.50	0.0420	<0.0050	<0.0010	0.00580	0.00830	-	2.56
L2188218-2	WQ28	Surface		10/26/2018	0.0960	<0.0050	<0.050	<0.50	0.0340	<0.0050	<0.0010	0.00460	0.00740	-	1.87
L2204508-5	WQ28	Surface		11/29/2018	0.130	<0.0050	<0.050	<0.50	0.0320	<0.0050	<0.0010	0.00400	0.00620	-	1.76
L2213246-4	WQ28	Surface		12/18/2018	0.0690	<0.0050	<0.050	<0.50	0.0360	0.0131	<0.0010	0.00490	0.00870	-	1.90
L2227701-4	WQ28	Surface		1/30/2019	0.0570	0.00660	<0.050	<0.50	0.0390	0.0159	<0.0010	0.00540	0.00810	-	2.29
L2232050-3	WQ28	Surface		2/11/2019	<0.050	<0.0050	<0.050	<0.50	0.0390	0.0320	<0.0010	0.00660	0.00830	-	2.49
L2244756-4	WQ28	Surface		3/13/2019	<0.050	<0.0050	<0.050	<0.50	0.0460	0.0421	<0.0010	0.00710	0.00950	-	2.83
L2256053-4	WQ28	Surface		4/8/2019	0.119	<0.0050	<0.050	<0.50	0.0460	<0.0050	<0.0010	0.00320	0.00840	-	2.15
L2269368-4	WQ28	Surface		5/4/2019	0.273	<0.0050	<0.050	<0.50	0.0350	<0.0050	<0.0010	0.00150	0.0178	-	1.07
L2274397-2	WQ28	Surface		5/14/2019	0.309	0.0111	<0.050	<0.50	0.0210	<0.0050	<0.0010	0.00130	0.0125	-	0.770
L2277964-8	WQ28	Surface	Dup	5/21/2019	0.416	<0.0050	<0.050	<0.50	0.0230	<0.0050	<0.0010	0.00110	0.0271	-	0.600
L2277964-5	WQ28	Surface		5/21/2019	0.394	<0.0050	<0.050	<0.50	0.0220	<0.0050	<0.0010	0.00170	0.0209	-	0.590
L2282975-6	WQ28	Surface	Dup	5/29/2019	0.208	<0.0050	<0.050	<0.50	0.0280	<0.0050	<0.0010	0.00130	0.00910	-	0.680
L2282975-4	WQ28	Surface		5/29/2019	0.219	<0.0050	<0.050	<0.50	0.0240	<0.0050	<0.0010	0.00130	0.0100	-	0.680
L2285579-4	WQ28	Surface		6/3/2019	0.204	<0.0050	<0.050	<0.50	0.0230	<0.0050	<0.0010	0.00110	0.00830	-	0.740
L2312637-5	WQ28	Surface		7/16/2019	0.171	<0.0050	<0.050	<0.50	0.0290	<0.0050	<0.0010	0.00200	0.00620	-	0.690
L2326388-4	WQ28	Surface		8/8/2019	0.156	<0.0050	<0.050	<0.50	0.0320	<0.0050	<0.0010	0.00200	0.00840	-	0.790
L2350223-3	WQ28	Surface		9/17/2019	0.131	<0.0050	<0.050	<0.50	0.0350	<0.0050	<0.0010	0.00270	0.00710	-	1.49
L2372667-3	WQ28	Surface		10/23/2019	0.167	<0.0050	<0.050	<0.50	0.0290	<0.0050	<0.0010	0.00170	0.00680	-	1.14
L2383392-4	WQ28	Surface		11/14/2019	0.138	<0.0050	<0.050	<0.50	0.0320	<0.0050	<0.0010	0.00140	0.00650	-	1.18
VA19A0726-003	WQ28	Surface		12/16/2019	0.0930	0.00620	<0.050	<0.50	0.0310	0.00580	<0.0010	0.00220	0.00680	-	1.37
VA20A0812-003	WQ28	Surface		1/23/2020	0.132	<0.0050	<0.050	<0.50	0.0320	0.0176	<0.0010	0.00370	0.00820	-	2.08
VA20A1887-004	WQ28	Surface		2/13/2020	0.0820	<0.0050	<0.050	<0.50	0.0340	0.0181	<0.0010	0.00540	0.00680	-	2.33
VA20A3516-004	WQ28	Surface		3/16/2020	0.0760	<0.0050	<0.050	<0.50	0.0400	0.0205	0.00120	0.00540	0.00800	-	2.68
VA20A4369-003	WQ28	Surface		4/1/2020	0.0600	<0.0050	<0.050	<0.50	0.0380	0.0180	<0.0010	0.00530	0.00810	-	2.61
VA20A6356-004	WQ28	Surface		5/11/2020	0.259	0.00900	<0.050	<0.50	0.0230	<0.0050	<0.0010	0.00210	0.0144	-	0.600

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Anions and Nutrients										
					Total Kjeldahl	Ammonia, Total (as N)	Bromide (Br)	Chloride (Cl)	Fluoride (F)	Nitrate (as N)	Nitrite (as N)	Orthophosphate-Dissolved	Phosphorus (P)-	Phosphorus Total	Sulfate (SO ₄)
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
VA20B2426-005	WQ28	Surface		8/10/2020	0.134	<0.0050	<0.050	<0.50	0.0340	<0.0050	<0.0010	0.00300	0.00730	-	1.29
VA20C0197-004	WQ28	Surface		11/4/2020	0.253	<0.0050	<0.050	<0.50	0.0250	<0.0050	<0.0010	0.00180	0.0141	-	0.780
L2238112-1	WQ29	Surface		2/26/2019	0.265	0.0213	<0.050	<0.50	0.0640	0.0970	<0.0010	0.0126	0.0216	-	4.09
L2278768-1	WQ29	Surface		5/22/2019	0.419	0.00740	<0.050	<0.50	0.0420	0.0132	0.00120	0.00360	0.0309	-	3.40
L2325935-4	WQ29	Surface	Dup	8/7/2019	0.286	0.00630	<0.050	<0.50	0.0510	<0.0050	<0.0010	0.00290	0.0145	-	2.37
L2325935-2	WQ29	Surface		8/7/2019	0.308	0.00920	<0.050	<0.50	0.0570	<0.0050	<0.0010	0.00330	0.0160	-	2.51
L2388381-6	WQ29	Surface	Dup	11/25/2019	0.501	0.0347	<0.050	<0.50	0.0490	0.0296	<0.0010	0.00990	0.0199	-	2.90
L2388381-5	WQ29	Surface		11/25/2019	0.486	0.0333	<0.050	<0.50	0.0550	0.0304	<0.0010	0.00940	0.0190	-	2.89
VA20A1056-001	WQ29	Surface		1/28/2020	0.269	0.0143	<0.050	<0.50	0.0590	0.0610	0.00180	0.0101	0.0198	-	3.71
VA20A1776-001	WQ29	Surface		2/2/2020	0.252	0.0105	<0.050	<0.50	0.0570	0.0482	0.00200	0.0117	0.0214	-	3.72
VA20A3580-003	WQ29	Surface	Dup	3/17/2020	0.244	0.0128	<0.050	<0.50	0.0610	0.00910	<0.0010	0.00880	0.0153	-	3.58
VA20A3580-001	WQ29	Surface		3/17/2020	0.261	0.0122	<0.050	<0.50	0.0600	0.0101	<0.0010	0.00920	0.0171	-	3.54
VA20A4424-003	WQ29	Surface	Dup	4/2/2020	0.228	0.0103	<0.050	<0.50	0.0590	0.00630	<0.0010	0.00840	0.0189	-	3.53
VA20A4424-001	WQ29	Surface		4/2/2020	0.243	0.0101	<0.050	<0.50	0.0580	0.00580	<0.0010	0.00860	0.0185	-	3.52
VA20A6114-001	WQ29	Surface		5/6/2020	0.302	0.00620	<0.050	<0.50	0.0590	<0.0050	<0.0010	0.00480	0.0190	-	2.86
VA20A6503-001	WQ29	Surface		5/13/2020	0.307	0.00940	<0.050	<0.50	0.0470	<0.0050	<0.0010	0.00470	0.0200	-	2.58
VA20A6869-004	WQ29	Surface		5/20/2020	0.290	0.0117	<0.050	<0.50	0.0490	<0.0050	<0.0010	0.00520	0.0178	-	2.33
VA20A7367-004	WQ29	Surface		5/28/2020	0.275	0.00620	<0.050	<0.50	0.0510	0.0275	<0.0010	0.0100	0.0236	-	2.71
VA20A7797-001	WQ29	Surface		6/3/2020	0.346	0.00850	<0.050	<0.50	0.0420	<0.0050	<0.0010	0.00470	0.0219	-	2.49
VA20B0021-001	WQ29	Surface		7/7/2020	0.326	0.00820	<0.050	<0.50	0.0580	<0.0050	<0.0010	0.00310	0.0180	-	2.52
VA20B2012-001	WQ29	Surface		8/4/2020	0.328	<0.0050	<0.050	<0.50	0.0620	<0.0050	<0.0010	0.00310	0.0189	-	3.12
VA20B2542-001	WQ29	Surface		8/11/2020	0.294	0.00550	<0.050	<0.50	0.0600	<0.0050	<0.0010	0.00220	0.0154	-	3.08
VA20B3033-001	WQ29	Surface		8/17/2020	0.931	0.00770	<0.050	<0.50	0.0720	0.00580	<0.0010	0.00230	0.0589	-	3.30
VA20B3860-001	WQ29	Surface		8/26/2020	0.364	0.00710	<0.050	<0.50	0.0580	0.0123	0.00110	0.00230	0.0204	-	2.73
VA20B4443-001	WQ29	Surface		9/2/2020	0.343	0.0181	<0.050	<0.50	0.0650	<0.0050	<0.0010	0.00320	0.0163	-	3.06
VA20B7828-004	WQ29	Surface	Dup	10/8/2020	0.276	<0.0050	<0.050	<0.50	0.0620	<0.0050	<0.0010	0.00400	0.0167	-	3.07
VA20B7828-001	WQ29	Surface		10/8/2020	0.260	<0.0050	<0.050	<0.50	0.0620	<0.0050	<0.0010	0.00420	0.0173	-	3.06
VA20B9945-001	WQ29	Surface		11/2/2020	0.381	0.00750	<0.050	0.500	0.0490	0.0287	0.00100	0.00760	0.0226	-	2.94
	WQ3	Surface		5/17/2011	0.400	< 0.02	-	0.400	0.0500	0.0170	< 0.003	0.0100	-	0.0330	1.70
	WQ3	Surface		5/25/2011	0.310	< 0.02	-	0.300	0.0600	0.0120	< 0.003	0.0110	-	0.0240	2.10
	WQ3	Surface		5/31/2011	0.260	< 0.02	-	0.400	0.0600	0.00600	0.0140	0.00300	-	0.0180	3.10
	WQ3	Surface		6/7/2011	0.540	< 0.02	-	0.400	0.0500	0.0250	< 0.003	0.0110	-	0.0160	1.60
	WQ3	Surface		6/14/2011	1.75	0.670	-	0.200	0.0500	< 0.005	< 0.003	0.0100	-	0.0170	1.30
	WQ3	Surface		7/19/2011	< 0.08	0.0200	-	0.400	0.0600	0.0180	< 0.003	0.0110	-	0.0200	1.00
	WQ3	Surface		8/16/2011	< 0.08	0.0200	-	0.200	0.0500	< 0.005	< 0.003	0.0270	-	0.0290	0.800
	WQ3	Surface		9/20/2011	0.190	< 0.02	-	0.200	0.0600	0.00600	< 0.003	0.0140	-	0.0340	1.00
	WQ3	Surface		10/18/2011	0.0900	< 0.02	-	0.200	0.0600	0.00600	< 0.003	0.0220	-	0.0330	1.20
	WQ3	Surface		11/15/2011	< 0.08	< 0.01	-	0.200	0.0600	0.0180	< 0.003	0.0350	-	0.0320	1.20
	WQ3	Surface		12/12/2011	< 0.08	< 0.02	-	0.300	0.0700	0.0270	< 0.003	0.0300	-	0.0340	1.80
	WQ3	Surface		1/12/2012	< 0.08	< 0.02	-	0.200	0.0700	0.0300	0.00500	0.0370	-	0.0440	1.50
	WQ3	Surface		2/13/2012	0.130	< 0.01	-	0.200	0.0700	0.0200	0.00700	0.0390	-	0.0410	1.60
	WQ3	Surface		3/12/2012	< 0.08	< 0.02	-	0.200	0.0700	0.0200	< 0.003	0.0370	-	0.0360	1.70
	WQ3	Surface		4/16/2012	< 0.08	< 0.02	-	0.100	0.0800	< 0.005	0.00300	0.0290	-	0.0430	1.50
	WQ3	Surface		5/14/2012	0.180	< 0.02	-	0.900	0.0700	< 0.005	< 0.003	< 0.003	-	0.0210	0.900

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LabID	Site	Depth	QAQC	Date	Anions and Nutrients										
					Total Kjeldahl	Ammonia, Total (as N)	Bromide (Br)	Chloride (Cl)	Fluoride (F)	Nitrate (as N)	Nitrite (as N)	Orthophosphate-Dissolved	Phosphorus (P)-	Phosphorus Total	Sulfate (SO ₄)
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ3	Surface		5/22/2012	0.230	< 0.02	-	0.700	0.0600	< 0.005	0.00400	0.0390	-	0.0260	1.00
	WQ3	Surface		5/29/2012	0.180	< 0.02	-	2.10	0.0800	0.0140	0.00500	< 0.003	-	0.0130	0.500
	WQ3	Surface		6/5/2012	0.170	< 0.02	-	0.500	0.0500	0.0100	< 0.003	< 0.003	-	0.0160	0.900
	WQ3	Surface		6/12/2012	< 0.08	< 0.02	-	0.400	0.0600	0.00800	< 0.003	< 0.003	-	0.0130	0.600
	WQ3	Surface		6/19/2012	0.0900	< 0.02	-	0.300	0.0500	0.00700	< 0.003	< 0.003	-	0.0160	0.900
	WQ3	Surface		7/17/2012	< 0.08	< 0.02	-	0.600	0.0900	0.0120	< 0.003	< 0.003	-	0.0230	0.900
	WQ3	Surface		8/14/2012	0.210	< 0.02	-	0.100	< 0.02	< 0.005	< 0.003	< 0.003	-	0.0420	< 0.5
	WQ3	Surface		9/18/2012	< 0.08	< 0.02	-	< 0.1	0.0700	0.0130	< 0.003	0.0470	-	0.0390	1.90
	WQ3	Surface		10/15/2012	< 0.08	< 0.02	-	< 0.1	0.0800	0.0140	< 0.003	0.0320	-	0.0440	1.80
	WQ3	Surface		11/13/2012	0.110	0.0300	-	0.200	0.0600	0.0300	< 0.003	0.0100	-	0.0410	1.30
	WQ3	Surface		12/10/2012	0.300	< 0.02	-	0.500	0.0700	0.108	0.0220	0.00400	-	0.00900	5.60
	WQ3	Surface		1/13/2013	< 0.08	< 0.02	-	0.200	0.0700	0.0550	< 0.003	< 0.003	-	0.0450	2.10
	WQ3	Surface		2/12/2013	< 0.08	< 0.02	-	0.400	0.0800	0.0510	0.00300	< 0.003	-	0.0410	1.90
	WQ3	Surface		3/11/2013	< 0.08	< 0.02	-	0.200	0.0800	0.0370	< 0.003	< 0.003	-	0.0530	2.00
	WQ3	Surface		4/15/2013	< 0.08	< 0.02	-	0.200	0.0700	0.0240	< 0.003	< 0.003	-	0.0430	1.90
	WQ3	Surface		5/13/2013	0.240	< 0.02	-	0.300	0.0700	0.0160	< 0.003	< 0.003	-	0.0170	1.40
	WQ3	Surface		5/22/2013	0.230	< 0.02	-	0.300	0.0500	0.0100	< 0.003	< 0.003	-	0.0410	1.40
	WQ3	Surface		5/27/2013	0.130	< 0.02	-	0.200	0.0400	0.00600	< 0.003	< 0.003	-	< 0.001	1.40
	WQ3	Surface		6/6/2013	0.150	< 0.02	-	0.300	0.0300	0.00700	< 0.003	< 0.003	-	0.0250	0.600
	WQ3	Surface		6/10/2013	< 0.08	< 0.02	-	0.300	0.0700	0.0960	< 0.003	< 0.003	-	< 0.001	2.10
	WQ3	Surface		6/17/2013	0.150	< 0.02	-	0.500	0.0400	0.0170	< 0.003	< 0.003	-	0.0290	0.800
	WQ3	Surface	Dup	4/13/2014	0.120	0.0300	-	0.200	0.0700	0.0490	0.00300	<0.003	-	0.0400	1.40
	WQ3	Surface		4/13/2014	0.140	<0.02	-	0.300	0.0700	0.0420	<0.003	<0.003	-	0.0400	1.20
	WQ3	Surface		7/2/2014	0.110	<0.04	-	0.200	0.0600	0.00600	<0.003	0.00300	-	0.0270	1.10
	WQ3	Surface		9/24/2014	0.590	<0.02	-	0.300	0.110	<0.005	<0.003	0.0530	-	0.0520	1.40
	WQ3	Surface		12/9/2014	<0.08	<0.02	-	<0.1	0.0800	0.0330	<0.003	<0.003	-	0.0510	1.30
L1926080-7	WQ3	Surface		5/11/2017	0.328	<0.0050	<0.050	<0.50	0.0320	0.0153	<0.0010	0.0211	0.0405	-	0.660
L1962414-1	WQ3	Surface		7/19/2017	0.273	<0.0050	<0.050	<0.50	0.0470	0.00590	<0.0010	0.0161	0.0278	-	0.870
L1988190-1	WQ3	Surface		9/6/2017	0.316	<0.0050	<0.050	<0.50	0.0470	<0.0050	<0.0010	0.0220	0.0273	-	0.710
L2010514-1	WQ3	Surface		10/18/2017	0.337	<0.0050	<0.050	0.720	0.0520	<0.0050	<0.0010	0.0238	0.0395	-	1.29
L2060442-1	WQ3	Surface		2/23/2018	0.0740	<0.0050	<0.050	<0.50	0.0600	0.0478	<0.0010	0.0315	0.0385	-	1.25
L2103632-1	WQ3	Surface		5/29/2018	0.216	0.00520	<0.050	<0.50	0.0420	0.00600	<0.0010	0.0213	0.0342	-	0.690
L2143640-2	WQ3	Surface		8/7/2018	0.246	0.00850	<0.050	<0.50	0.0500	0.0255	0.00120	0.0509	0.0698	-	0.640
L2204508-2	WQ3	Surface		11/29/2018	0.132	<0.0050	<0.050	<0.50	0.0490	0.0271	<0.0010	0.0307	0.0401	-	0.850
L2232772-1	WQ3	Surface		2/12/2019	0.0510	0.0102	<0.050	<0.50	0.0700	0.0674	<0.0010	0.0346	0.0462	-	2.47
L2273497-2	WQ3	Surface		5/13/2019	0.256	0.00820	<0.050	<0.50	0.0380	0.0197	<0.0010	0.0186	0.0383	-	0.670
L2328474-1	WQ3	Surface		8/12/2019	0.252	0.0102	<0.050	<0.50	0.0480	<0.0050	<0.0010	0.0240	0.0431	-	0.560
L2385426-1	WQ3	Surface		11/18/2019	0.208	0.0141	<0.050	<0.50	0.0330	0.0217	<0.0010	0.0175	0.0321	-	0.700
VA20A1830-002	WQ3	Surface		2/12/2020	0.126	<0.0050	<0.050	<0.50	0.0510	0.0502	<0.0010	0.0316	0.0465	-	1.00
VA20A6574-001	WQ3	Surface		5/14/2020	0.229	<0.0050	<0.050	<0.50	0.0380	0.00550	<0.0010	0.0136	0.0267	-	0.490
VA20B2692-002	WQ3	Surface		8/12/2020	0.103	<0.0050	<0.050	<0.50	0.0550	0.00800	<0.0010	0.0352	0.0451	-	0.880
VA20C1166-001	WQ3	Surface		11/17/2020	0.169	<0.0050	<0.050	<0.50	0.0440	0.0177	<0.0010	0.0200	0.0318	-	0.770
L2239149-1	WQ30	Surface		2/28/2019	0.219	0.0176	<0.050	<0.50	0.0710	0.103	0.00130	0.0100	0.0207	-	4.89
L2278768-2	WQ30	Surface		5/22/2019	0.446	0.00970	<0.050	<0.50	0.0460	0.0155	<0.0010	0.00530	0.0361	-	3.66

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					Total Kjeldahl	Ammonia, Total (as N)	Bromide (Br)	Chloride (Cl)	Fluoride (F)	Nitrate (as N)	Nitrite (as N)	Orthophosphate-Dissolved	Phosphorus (P)-	Phosphorus Total	Sulfate (SO ₄)
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2325935-1	WQ30	Surface		8/7/2019	0.306	0.00720	<0.050	<0.50	0.0580	<0.0050	<0.0010	0.00340	0.0140	-	2.62
L2385426-3	WQ30	Surface		11/18/2019	0.341	0.0104	<0.050	<0.50	0.0420	0.0295	<0.0010	0.00510	0.0232	-	2.72
VA20A1056-002	WQ30	Surface		1/28/2020	0.254	0.0185	<0.050	<0.50	0.0620	0.0632	0.00190	0.00860	0.0198	-	3.94
VA20A1776-002	WQ30	Surface		2/2/2020	0.266	0.0168	<0.050	<0.50	0.0590	0.0553	0.00240	0.0115	0.0194	-	3.99
VA20A3580-002	WQ30	Surface		3/17/2020	0.310	0.00980	<0.050	<0.50	0.0620	0.0190	<0.0010	0.00760	0.0156	-	3.95
VA20A4424-002	WQ30	Surface		4/2/2020	0.235	0.0128	<0.050	<0.50	0.0610	0.0167	<0.0010	0.00780	0.0171	-	4.12
VA20A6114-002	WQ30	Surface		5/6/2020	0.282	0.00610	<0.050	<0.50	0.0480	<0.0050	<0.0010	0.00560	0.0176	-	2.87
VA20A6503-005	WQ30	Surface	Dup	5/13/2020	0.306	0.00630	<0.050	<0.50	0.0490	<0.0050	<0.0010	0.00520	0.0198	-	2.58
VA20A6503-002	WQ30	Surface		5/13/2020	0.309	0.00600	<0.050	<0.50	0.0490	<0.0050	<0.0010	0.00490	0.0199	-	2.58
VA20A6869-005	WQ30	Surface		5/20/2020	0.273	0.00690	<0.050	<0.50	0.0490	<0.0050	<0.0010	0.00540	0.0166	-	2.24
VA20A7367-005	WQ30	Surface		5/28/2020	0.298	0.00710	<0.050	<0.50	0.0510	0.0132	<0.0010	0.00790	0.0249	-	2.61
VA20A7797-002	WQ30	Surface		6/3/2020	0.386	0.0414	<0.050	<0.50	0.0420	<0.0050	<0.0010	0.00560	0.0229	-	2.37
VA20B0021-002	WQ30	Surface		7/7/2020	0.568	0.0160	<0.050	<0.50	0.0570	<0.0050	<0.0010	0.00440	0.109	-	2.52
VA20B2012-002	WQ30	Surface		8/4/2020	0.310	0.00780	<0.050	<0.50	0.0650	<0.0050	<0.0010	0.00420	0.0179	-	3.30
VA20B2542-002	WQ30	Surface		8/11/2020	0.299	0.00650	<0.050	<0.50	0.0640	<0.0050	<0.0010	0.00270	0.0145	-	3.36
VA20B3033-002	WQ30	Surface		8/17/2020	0.369	0.00660	<0.050	<0.50	0.0680	<0.0050	<0.0010	0.00220	0.0257	-	3.08
VA20B3860-006	WQ30	Surface	Dup	8/26/2020	0.356	0.00760	<0.050	<0.50	0.0670	0.00940	<0.0010	0.00230	0.0186	-	3.26
VA20B3860-002	WQ30	Surface		8/26/2020	0.345	0.00550	<0.050	<0.50	0.0650	0.00930	<0.0010	0.00250	0.0192	-	3.27
VA20B4443-002	WQ30	Surface		9/2/2020	0.307	0.00620	<0.050	<0.50	0.0640	<0.0050	<0.0010	0.00340	0.0191	-	3.13
VA20B7828-002	WQ30	Surface		10/8/2020	0.256	<0.0050	<0.050	<0.50	0.0640	<0.0050	<0.0010	0.00530	0.0175	-	3.27
VA20B9945-002	WQ30	Surface		11/2/2020	0.394	0.00800	<0.050	<0.50	0.0490	0.0150	0.00110	0.00720	0.0222	-	3.01
VA20A0688-001	WQ31	Surface		1/21/2020	0.156	<0.0050	<0.050	<0.50	0.0280	0.00950	<0.0010	0.00290	0.00680	-	0.650
VA20A1887-003	WQ31	Surface		2/13/2020	0.100	<0.0050	<0.050	<0.50	0.0240	0.0129	<0.0010	0.00370	0.00690	-	0.600
VA20A3516-005	WQ31	Surface		3/16/2020	0.0980	<0.0050	<0.050	<0.50	0.0290	0.0204	<0.0010	0.00390	0.00800	-	0.710
VA20A4369-004	WQ31	Surface		4/1/2020	0.0840	<0.0050	<0.050	<0.50	0.0260	0.0247	<0.0010	0.00400	0.00590	-	0.650
VA20A6356-005	WQ31	Surface		5/11/2020	0.288	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	0.00180	0.0151	-	<0.30
VA20A7672-005	WQ31	Surface	Dup	6/2/2020	0.208	<0.0050	<0.050	<0.50	0.0200	<0.0050	<0.0010	0.00150	0.00840	-	0.320
VA20A7672-001	WQ31	Surface		6/2/2020	0.197	<0.0050	<0.050	<0.50	0.0200	<0.0050	<0.0010	0.00160	0.00800	-	0.330
VA20A9918-004	WQ31	Surface		7/6/2020	0.209	<0.0050	<0.050	<0.50	0.0220	<0.0050	<0.0010	0.00220	0.00800	-	<0.30
VA20B2426-002	WQ31	Surface		8/10/2020	0.179	<0.0050	<0.050	<0.50	0.0230	<0.0050	<0.0010	0.00170	0.00560	-	<0.30
VA20B4313-004	WQ31	Surface	Dup	9/1/2020	0.136	<0.0050	<0.050	<0.50	0.0220	<0.0050	<0.0010	0.00260	0.00650	-	0.300
VA20B4313-002	WQ31	Surface		9/1/2020	0.150	<0.0050	<0.050	<0.50	0.0240	<0.0050	<0.0010	0.00270	0.00680	-	0.300
VA20B7624-005	WQ31	Surface		10/6/2020	0.149	<0.0050	<0.050	<0.50	0.0290	<0.0050	<0.0010	0.00200	0.00930	-	0.450
VA20C0197-001	WQ31	Surface		11/4/2020	0.247	<0.0050	<0.050	<0.50	0.0210	<0.0050	<0.0010	0.00110	0.00770	-	0.390
	WQ4	Surface		5/17/2011	0.350	0.0400	-	0.400	0.0500	0.00800	< 0.003	< 0.003	-	0.0130	5.10
	WQ4	Surface		5/24/2011	0.210	< 0.02	-	0.500	0.0600	0.00900	< 0.003	< 0.003	-	0.0100	5.00
	WQ4	Surface		5/30/2011	0.610	0.0200	-	< 0.1	0.0700	0.00800	0.0110	< 0.003	-	0.00700	6.10
	WQ4	Surface		6/6/2011	0.800	0.0200	-	0.500	0.0600	0.0140	< 0.003	< 0.003	-	0.00600	3.80
	WQ4	Surface		6/13/2011	0.660	< 0.02	-	0.200	0.0500	0.00600	< 0.003	< 0.003	-	0.00600	3.90
	WQ4	Surface		7/18/2011	< 0.08	0.0300	-	0.200	0.0600	0.00900	< 0.003	< 0.003	-	0.00300	3.30
	WQ4	Surface		8/15/2011	< 0.08	< 0.02	-	0.100	0.0400	< 0.005	< 0.003	0.00400	-	0.00400	2.40
	WQ4	Surface		9/19/2011	0.200	< 0.02	-	0.200	0.0400	< 0.005	< 0.003	0.0340	-	0.00200	1.40
	WQ4	Surface		10/17/2011	< 0.08	< 0.02	-	0.300	0.0400	< 0.005	< 0.003	0.0170	-	< 0.001	4.80
	WQ4	Surface		11/14/2011	< 0.08	< 0.01	-	0.200	0.0400	< 0.005	< 0.003	< 0.003	-	< 0.001	5.60

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LabID	Site	Depth	QAQC	Date	Anions and Nutrients										
					Total Kjeldahl	Ammonia, Total (as N)	Bromide (Br)	Chloride (Cl)	Fluoride (F)	Nitrate (as N)	Nitrite (as N)	Orthophosphate-Dissolved	Phosphorus (P)-	Phosphorus Total	Sulfate (SO ₄)
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ4	Surface	Dup	5/15/2012	0.480	< 0.02	-	1.90	0.0800	< 0.005	0.0120	0.0150	-	0.00700	8.20
	WQ4	Surface		5/15/2012	0.520	< 0.02	-	1.50	0.0500	< 0.005	< 0.003	0.0120	-	0.00700	7.10
	WQ4	Surface		5/23/2012	0.630	< 0.02	-	2.00	0.0900	< 0.005	0.00700	0.0310	-	0.0120	7.20
	WQ4	Surface		5/28/2012	0.300	0.0200	-	2.90	0.0700	0.0100	0.00400	< 0.003	-	0.00300	5.00
	WQ4	Surface		6/4/2012	0.210	< 0.02	-	1.20	0.0500	0.00700	< 0.003	< 0.003	-	0.00400	5.00
	WQ4	Surface		6/11/2012	0.380	< 0.02	-	0.900	0.0500	0.00800	< 0.003	< 0.003	-	0.00200	4.90
	WQ4	Surface		6/18/2012	0.190	< 0.02	-	0.800	0.0600	0.0240	< 0.003	< 0.003	-	< 0.001	5.00
	WQ4	Surface		7/16/2012	0.120	< 0.02	-	1.20	0.0800	0.0100	< 0.003	< 0.003	-	< 0.001	3.20
	WQ4	Surface		8/13/2012	0.110	< 0.02	-	0.500	< 0.02	< 0.005	< 0.003	< 0.003	-	0.00700	< 0.5
	WQ4	Surface		9/17/2012	< 0.08	< 0.02	-	0.500	0.0600	< 0.005	< 0.003	< 0.003	-	0.00100	3.70
	WQ4	Surface		10/16/2012	1.90	< 0.02	-	2.00	0.0700	0.0350	< 0.003	< 0.003	-	0.0100	12.1
	WQ4	Surface		11/12/2012	0.770	0.0600	-	0.900	0.0400	< 0.005	< 0.003	< 0.003	-	0.00400	20.3
	WQ4	Surface		12/10/2012	0.430	< 0.02	-	1.10	0.0700	0.0390	0.0160	0.00700	-	0.00800	39.3
	WQ4	Surface		5/14/2013	0.500	< 0.02	-	1.20	0.0500	0.0280	< 0.003	< 0.003	-	< 0.001	8.10
	WQ4	Surface		5/21/2013	0.140	< 0.02	-	1.10	0.0600	0.0140	< 0.003	< 0.003	-	0.0240	9.90
	WQ4	Surface		5/28/2013	0.170	< 0.02	-	1.80	0.0300	0.0200	< 0.003	< 0.003	-	< 0.001	10.6
	WQ4	Surface		6/4/2013	0.160	< 0.02	-	1.40	0.0300	0.0310	< 0.003	< 0.003	-	0.0150	8.40
	WQ4	Surface		6/11/2013	0.270	< 0.02	-	1.60	0.0300	0.0380	< 0.003	< 0.003	-	< 0.001	9.80
	WQ4	Surface		6/18/2013	0.630	< 0.02	-	1.30	0.0400	0.0190	< 0.003	< 0.003	-	0.0330	8.70
L1925102-1	WQ4	Surface		5/9/2017	0.562	<0.0050	<0.050	<0.50	0.0290	<0.0050	<0.0010	0.00290	0.0268	-	5.54
L1961670-1	WQ4	Surface		7/18/2017	0.163	<0.0050	<0.050	<0.50	0.0410	0.00890	<0.0010	<0.0010	0.00250	-	15.1
L2011329-1	WQ4	Surface		10/19/2017	0.169	<0.0050	<0.050	1.44	0.0720	<0.0050	<0.0010	<0.0010	0.00670	-	25.2
L2060101-1	WQ4	Surface		2/22/2018	0.0890	<0.0050	<0.050	0.680	0.0440	0.00580	<0.0010	<0.0010	0.00650	-	36.7
L2102737-1	WQ4	Surface		5/28/2018	0.194	<0.0050	<0.050	<0.50	0.0400	<0.0050	0.00140	<0.0010	0.00840	-	7.65
L2144658-3	WQ4	Surface		8/8/2018	0.212	<0.0050	<0.050	<0.50	0.0420	<0.0050	<0.0010	0.00140	0.00720	-	10.7
L2204086-2	WQ4	Surface		11/28/2018	0.279	<0.0050	<0.050	<0.50	0.0380	<0.0050	<0.0010	<0.0010	0.0312	-	10.7
L2233329-1	WQ4	Surface		2/13/2019	0.152	0.00750	<0.050	<0.50	0.0380	0.00600	<0.0010	0.00170	0.0177	-	10.8
L2275791-2	WQ4	Surface	Dup	5/16/2019	0.278	0.0238	<0.050	<0.50	0.0450	<0.0050	<0.0010	<0.0010	0.00900	-	11.4
L2275791-1	WQ4	Surface		5/16/2019	0.281	<0.0050	<0.050	<0.50	0.0450	<0.0050	<0.0010	<0.0010	0.00760	-	11.1
L2329543-1	WQ4	Surface		8/13/2019	0.119	0.00700	<0.050	<0.50	0.0540	<0.0050	<0.0010	<0.0010	0.00420	-	9.04
L2378996-2	WQ4	Surface		11/5/2019	0.135	<0.0050	<0.050	<0.50	0.0440	<0.0050	<0.0010	<0.0010	0.00800	-	13.1
VA20A2211-002	WQ4	Surface		2/20/2020	0.0860	<0.0050	<0.050	0.650	0.0440	<0.0050	<0.0010	<0.0010	0.00330	-	32.8
VA20A6810-002	WQ4	Surface		5/19/2020	0.221	<0.0050	<0.050	<0.50	0.0480	0.0297	<0.0010	<0.0010	0.00780	-	6.85
VA20B2212-003	WQ4	Surface		8/6/2020	0.152	<0.0050	<0.050	<0.50	0.0560	<0.0050	<0.0010	<0.0010	0.00540	-	15.5
VA20C1415-002	WQ4	Surface		11/19/2020	0.131	<0.0050	<0.050	<0.50	0.0430	<0.0050	<0.0010	<0.0010	0.00350	-	15.8
	WQ5	Surface	Dup	5/17/2011	0.130	< 0.02	-	0.300	0.0500	0.0160	< 0.003	< 0.003	-	0.0150	1.50
	WQ5	Surface		5/17/2011	0.320	< 0.02	-	0.200	0.0500	0.0150	< 0.003	< 0.003	-	0.0140	1.50
	WQ5	Surface		5/25/2011	< 0.08	< 0.02	-	0.200	0.0500	0.0100	< 0.003	< 0.003	-	0.0100	1.50
	WQ5	Surface		5/31/2011	0.380	< 0.02	-	< 0.1	0.0700	0.00900	0.0120	< 0.003	-	0.00800	3.50
	WQ5	Surface		6/7/2011	0.890	< 0.02	-	0.200	0.0400	0.0280	< 0.003	< 0.003	-	0.00600	1.40
	WQ5	Surface		6/14/2011	0.460	< 0.02	-	0.100	0.0500	0.00700	< 0.003	< 0.003	-	0.00700	1.40
	WQ5	Surface		7/19/2011	< 0.08	0.0200	-	0.300	0.0500	0.00900	< 0.003	< 0.003	-	0.00500	< 0.5
	WQ5	Surface		8/16/2011	0.0900	< 0.02	-	< 0.1	0.0300	< 0.005	< 0.003	< 0.003	-	0.00400	< 0.5
	WQ5	Surface		9/20/2011	< 0.08	< 0.02	-	0.200	0.0400	< 0.005	< 0.003	0.0300	-	0.00200	< 0.5

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LabID	Site	Depth	QAQC	Date	Anions and Nutrients										
					Total Kjeldahl	Ammonia, Total (as N)	Bromide (Br)	Chloride (Cl)	Fluoride (F)	Nitrate (as N)	Nitrite (as N)	Orthophosphate-Dissolved	Phosphorus (P)-	Phosphorus Total	Sulfate (SO ₄)
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ5	Surface		10/18/2011	< 0.08	< 0.02	-	0.200	0.0400	< 0.005	< 0.003	0.0300	-	0.00200	0.600
	WQ5	Surface		11/15/2011	< 0.08	< 0.01	-	0.200	0.0400	0.00600	< 0.003	< 0.003	-	< 0.001	0.700
	WQ5	Surface		12/12/2011	< 0.08	< 0.02	-	0.300	0.0500	0.0340	< 0.003	< 0.003	-	< 0.001	0.700
	WQ5	Surface		5/14/2012	0.300	< 0.02	-	1.10	0.0700	< 0.005	< 0.003	< 0.003	-	0.00400	< 0.5
	WQ5	Surface		5/22/2012	0.240	< 0.02	-	1.10	0.0500	0.0340	0.00500	0.0240	-	0.00800	0.700
	WQ5	Surface		5/29/2012	0.180	0.0300	-	1.50	0.0600	0.0100	0.00400	< 0.003	-	0.00200	< 0.5
	WQ5	Surface		6/5/2012	0.190	< 0.02	-	0.500	0.0400	0.0100	< 0.003	< 0.003	-	0.00500	< 0.5
	WQ5	Surface		6/12/2012	0.200	< 0.02	-	0.300	0.0400	0.00600	< 0.003	< 0.003	-	0.00100	< 0.5
	WQ5	Surface		6/19/2012	0.0900	< 0.02	-	0.500	0.0600	0.00800	< 0.003	< 0.003	-	< 0.001	< 0.5
	WQ5	Surface		7/17/2012	0.140	< 0.02	-	0.500	0.0600	0.0130	< 0.003	< 0.003	-	< 0.001	< 0.5
	WQ5	Surface		8/14/2012	0.0900	< 0.02	-	< 0.1	< 0.02	< 0.005	< 0.003	< 0.003	-	0.00400	< 0.5
	WQ5	Surface		9/18/2012	0.0800	< 0.02	-	< 0.1	0.0500	< 0.005	< 0.003	< 0.003	-	0.00200	1.10
	WQ5	Surface		10/15/2012	< 0.08	< 0.02	-	0.400	0.0500	0.0380	< 0.003	< 0.003	-	0.00500	1.50
	WQ5	Surface		11/13/2012	0.310	< 0.02	-	0.400	0.0600	0.0280	< 0.003	0.0140	-	0.00500	1.30
	WQ5	Surface		1/13/2013	0.170	< 0.02	-	0.400	0.0600	0.120	< 0.003	< 0.003	-	0.00600	2.00
	WQ5	Surface		4/15/2013	0.180	< 0.02	-	0.300	0.0600	0.158	< 0.003	< 0.003	-	0.0190	1.40
	WQ5	Surface		5/13/2013	0.200	< 0.02	-	0.200	0.0500	0.0160	< 0.003	< 0.003	-	0.00300	1.10
	WQ5	Surface		5/22/2013	0.230	< 0.02	-	0.200	0.0400	0.0280	< 0.003	< 0.003	-	0.0250	1.00
	WQ5	Surface		5/27/2013	0.160	< 0.02	-	0.100	0.0400	0.0120	< 0.003	< 0.003	-	< 0.001	1.00
	WQ5	Surface		6/6/2013	0.160	< 0.02	-	0.200	0.0200	0.0190	< 0.003	< 0.003	-	0.0100	< 0.5
	WQ5	Surface		6/10/2013	0.100	< 0.02	-	0.200	0.0500	0.0190	< 0.003	< 0.003	-	< 0.001	< 0.5
	WQ5	Surface		6/17/2013	0.270	< 0.02	-	0.300	0.0300	0.0250	< 0.003	< 0.003	-	< 0.001	< 0.5
	WQ5	Surface		4/13/2014	<0.08	<0.02	-	0.400	0.0400	0.269	0.00500	<0.003	-	<0.01	1.20
	WQ5	Surface		7/2/2014	0.140	<0.02	-	0.300	0.0400	0.00700	<0.003	0.0120	-	<0.010	<0.5
	WQ5	Surface		9/24/2014	<0.08	<0.02	-	<0.1	0.0800	<0.005	<0.003	<0.003	-	0.0100	0.700
	WQ5	Surface		12/8/2014	0.100	<0.02	-	0.300	0.0800	<0.005	<0.003	<0.003	-	<0.010	5.80
L1812856-8	WQ5	Surface		8/10/2016	0.213	0.00590	<0.050	<0.50	0.0280	<0.0050	0.00180	<0.0010	0.00510	-	<0.30
L1815654-8	WQ5	Surface	Dup	8/16/2016	0.190	<0.0050	<0.050	<0.50	0.0310	0.00630	<0.0010	<0.0010	0.00400	-	<0.30
L1815654-6	WQ5	Surface		8/16/2016	0.193	<0.0050	<0.050	<0.50	0.0310	<0.0050	<0.0010	<0.0010	0.00540	-	<0.30
L1819041-9	WQ5	Surface		8/23/2016	0.198	<0.0050	<0.050	<0.50	0.0340	<0.0050	<0.0010	0.00120	0.00490	-	0.370
L1823224-1	WQ5	Surface	Dup	8/31/2016	0.209	<0.0050	<0.050	<0.50	0.0290	0.0142	<0.0010	<0.0010	0.00860	-	<0.30
L1823224-8	WQ5	Surface		8/31/2016	0.209	<0.0050	<0.050	<0.50	0.0290	<0.0050	<0.0010	<0.0010	0.00870	-	<0.30
L1826303-4	WQ5	Surface		9/7/2016	0.299	<0.0050	<0.050	<0.50	0.0320	0.00550	<0.0010	0.00110	0.0105	-	0.310
L1925486-4	WQ5	Surface		5/10/2017	0.473	0.00520	<0.050	<0.50	0.0280	0.00740	<0.0010	0.00550	0.0299	-	1.31
L1962414-2	WQ5	Surface		7/19/2017	0.189	<0.0050	<0.050	<0.50	0.0300	0.00600	<0.0010	<0.0010	0.00530	-	0.480
L1988190-2	WQ5	Surface		9/6/2017	0.315	<0.0050	<0.050	<0.50	0.0380	0.0105	<0.0010	0.0181	0.0325	-	1.28
L2010514-2	WQ5	Surface		10/18/2017	0.338	<0.0050	<0.050	<0.50	0.0310	0.00630	<0.0010	<0.0010	0.00970	-	1.35
L2060442-2	WQ5	Surface		2/23/2018	0.134	0.00780	<0.050	<0.50	0.0510	0.0320	<0.0010	0.0100	0.0180	-	2.31
L2103632-2	WQ5	Surface		5/29/2018	0.250	0.00570	<0.050	<0.50	0.0350	<0.0050	<0.0010	0.0113	0.0249	-	1.39
L2143640-1	WQ5	Surface		8/7/2018	0.270	0.00780	<0.050	<0.50	0.0450	0.0192	<0.0010	0.0199	0.0404	-	1.38
L2204508-1	WQ5	Surface		11/29/2018	0.172	<0.0050	<0.050	<0.50	0.0400	0.00890	<0.0010	0.0120	0.0213	-	2.05
L2232772-2	WQ5	Surface		2/12/2019	0.331	0.0149	<0.050	<0.50	0.0580	0.0629	<0.0010	0.0182	0.0251	-	1.99
L2273497-3	WQ5	Surface		5/13/2019	0.343	0.00600	<0.050	<0.50	0.0300	<0.0050	<0.0010	0.00410	0.0265	-	1.61
L2328474-2	WQ5	Surface		8/12/2019	0.340	<0.0050	<0.050	<0.50	0.0390	<0.0050	<0.0010	0.00500	0.0194	-	1.07

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Anions and Nutrients										
					Total Kjeldahl	Ammonia, Total (as N)	Bromide (Br)	Chloride (Cl)	Fluoride (F)	Nitrate (as N)	Nitrite (as N)	Orthophosphate-Dissolved	Phosphorus (P)-	Phosphorus Total	Sulfate (SO ₄)
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2385426-2	WQ5	Surface		11/18/2019	0.363	0.0156	<0.050	<0.50	0.0250	0.00720	0.00100	0.00220	0.0170	-	1.87
VA20A1830-001	WQ5	Surface		2/12/2020	0.172	0.00580	<0.050	<0.50	0.0440	0.0352	<0.0010	0.0138	0.0197	-	1.59
VA20A6574-002	WQ5	Surface		5/14/2020	0.258	<0.0050	<0.050	<0.50	0.0280	<0.0050	<0.0010	0.00470	0.0186	-	0.920
VA20B2692-001	WQ5	Surface		8/12/2020	0.145	<0.0050	<0.050	<0.50	0.0520	<0.0050	<0.0010	0.0138	0.0241	-	1.09
VA20C1166-002	WQ5	Surface		11/17/2020	0.167	0.00660	<0.050	<0.50	0.0430	0.00910	<0.0010	0.0119	0.0227	-	1.64
	WQ6	Surface		5/17/2011	0.240	< 0.02	-	0.300	0.0500	0.0120	< 0.003	< 0.003	-	0.0140	2.10
	WQ6	Surface		5/24/2011	< 0.08	< 0.02	-	0.500	0.0400	0.0110	< 0.003	< 0.003	-	0.00900	2.10
	WQ6	Surface		5/30/2011	0.110	< 0.02	-	< 0.1	0.0400	0.00700	0.0120	< 0.003	-	0.00600	2.60
	WQ6	Surface		6/6/2011	0.320	< 0.02	-	0.300	0.0400	0.0210	< 0.003	< 0.003	-	0.00600	1.50
	WQ6	Surface		6/13/2011	0.310	< 0.02	-	0.200	0.0400	0.00700	< 0.003	< 0.003	-	0.00700	1.70
	WQ6	Surface		7/18/2011	< 0.08	0.0300	-	0.400	0.0400	< 0.005	< 0.003	0.00400	-	0.00500	0.900
	WQ6	Surface	Dup	8/15/2011	0.0900	< 0.02	-	0.200	0.0300	< 0.005	< 0.003	0.00400	-	0.00500	0.800
	WQ6	Surface		8/15/2011	< 0.08	< 0.02	-	0.200	0.0300	< 0.005	< 0.003	0.00400	-	0.00500	0.900
	WQ6	Surface		9/19/2011	1.23	0.0500	-	0.200	0.0300	< 0.005	< 0.003	0.0310	-	0.00200	0.800
	WQ6	Surface		10/17/2011	< 0.08	< 0.02	-	0.300	0.0300	< 0.005	< 0.003	0.0270	-	0.00200	1.00
	WQ6	Surface		11/14/2011	< 0.08	< 0.01	-	0.300	0.0300	< 0.005	< 0.003	< 0.003	-	< 0.001	1.30
	WQ6	Surface		4/17/2012	0.110	< 0.02	-	0.300	0.0500	0.0130	0.00500	< 0.003	-	0.00200	1.70
	WQ6	Surface		5/15/2012	0.240	< 0.02	-	1.30	0.0400	< 0.005	< 0.003	< 0.003	-	0.00200	1.20
	WQ6	Surface		5/23/2012	0.150	< 0.02	-	1.10	0.0700	0.0110	< 0.003	0.0400	-	0.00600	1.00
	WQ6	Surface		5/28/2012	0.140	0.0200	-	1.40	0.0600	< 0.005	0.00400	< 0.003	-	0.00200	0.600
	WQ6	Surface		6/4/2012	0.110	< 0.02	-	0.600	0.0400	0.00600	< 0.003	< 0.003	-	0.00200	1.00
	WQ6	Surface		6/11/2012	0.130	< 0.02	-	0.400	0.0400	0.00500	< 0.003	< 0.003	-	0.00100	0.800
	WQ6	Surface		6/18/2012	0.120	< 0.02	-	0.300	0.0300	0.0100	< 0.003	< 0.003	-	< 0.001	0.800
	WQ6	Surface		7/16/2012	0.0800	< 0.02	-	0.500	0.0600	0.00600	< 0.003	< 0.003	-	< 0.001	0.900
	WQ6	Surface		8/13/2012	< 0.08	< 0.02	-	< 0.1	< 0.02	< 0.005	< 0.003	< 0.003	-	0.00500	< 0.5
	WQ6	Surface		9/17/2012	< 0.08	< 0.02	-	0.200	0.0500	0.00700	< 0.003	< 0.003	-	0.00200	1.90
	WQ6	Surface		10/16/2012	< 0.08	< 0.02	-	0.200	0.0400	0.0200	< 0.003	< 0.003	-	0.00800	2.20
	WQ6	Surface		11/12/2012	0.210	0.0300	-	0.200	0.0300	0.00800	< 0.003	0.00700	-	0.00100	1.40
	WQ6	Surface		12/10/2012	< 0.08	< 0.02	-	0.600	0.0400	0.0380	0.0140	< 0.003	-	0.00500	2.80
	WQ6	Surface		1/15/2013	< 0.08	< 0.02	-	0.200	0.0400	0.0250	< 0.003	< 0.003	-	0.00200	2.20
	WQ6	Surface		2/13/2013	< 0.08	< 0.02	-	0.300	0.0500	0.0310	< 0.003	< 0.003	-	< 0.001	2.20
	WQ6	Surface		3/12/2013	< 0.08	< 0.02	-	0.200	0.0500	0.0310	< 0.003	< 0.003	-	0.0320	2.40
	WQ6	Surface		4/16/2013	0.190	< 0.02	-	0.300	0.0500	0.0210	< 0.003	< 0.003	-	0.00600	2.30
	WQ6	Surface		5/14/2013	0.110	< 0.02	-	0.300	0.0400	0.0200	< 0.003	< 0.003	-	< 0.001	1.40
	WQ6	Surface		5/21/2013	0.180	< 0.02	-	0.300	0.0400	0.0330	< 0.003	< 0.003	-	< 0.001	1.70
	WQ6	Surface		5/28/2013	0.100	< 0.02	-	0.400	0.0200	0.00800	< 0.003	< 0.003	-	< 0.001	1.70
	WQ6	Surface		6/4/2013	< 0.08	< 0.02	-	0.300	0.0300	0.0550	< 0.003	< 0.003	-	0.0190	0.700
	WQ6	Surface		6/11/2013	< 0.08	< 0.02	-	1.50	0.0300	0.0270	< 0.003	< 0.003	-	< 0.001	0.800
	WQ6	Surface		6/18/2013	0.210	< 0.02	-	0.300	0.0400	0.00900	< 0.003	< 0.003	-	< 0.001	0.800
	WQ7	Surface		4/19/2011	0.760	< 0.02	-	0.200	0.0700	0.0400	< 0.003	< 0.003	-	0.00900	3.10
	WQ7	Surface		5/17/2011	0.270	< 0.02	-	0.400	0.0600	0.00800	< 0.003	< 0.003	-	0.0170	2.10
	WQ7	Surface		5/24/2011	< 0.08	< 0.02	-	0.400	0.0700	0.00600	< 0.003	< 0.003	-	0.0140	2.60
	WQ7	Surface		5/30/2011	0.240	< 0.02	-	< 0.1	0.0600	0.0150	0.0110	< 0.003	-	0.0100	3.00
	WQ7	Surface		6/6/2011	0.390	< 0.02	-	0.200	0.0500	0.0160	< 0.003	< 0.003	-	0.00700	1.70

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Anions and Nutrients										
					Total Kjeldahl	Ammonia, Total (as N)	Bromide (Br)	Chloride (Cl)	Fluoride (F)	Nitrate (as N)	Nitrite (as N)	Orthophosphate-Dissolved	Phosphorus (P)-	Phosphorus Total	Sulfate (SO ₄)
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ7	Surface		6/13/2011	0.300	< 0.02	-	0.200	0.0500	0.00600	< 0.003	< 0.003	-	0.00800	1.90
	WQ7	Surface		7/18/2011	0.0800	0.0200	-	0.300	0.0500	< 0.005	< 0.003	< 0.003	-	0.00600	0.700
	WQ7	Surface		8/15/2011	< 0.08	0.0300	-	0.100	0.0400	< 0.005	< 0.003	0.0130	-	0.0110	1.20
	WQ7	Surface	Dup	9/19/2011	0.550	< 0.02	-	0.200	0.0500	< 0.005	< 0.003	0.00700	-	0.00700	1.90
	WQ7	Surface		9/19/2011	< 0.08	0.0400	-	0.200	0.0500	< 0.005	< 0.003	0.00400	-	0.00700	1.80
	WQ7	Surface	Dup	10/17/2011	< 0.08	< 0.02	-	0.200	0.0400	< 0.005	< 0.003	0.0640	-	0.00700	1.70
	WQ7	Surface		10/17/2011	< 0.08	< 0.02	-	0.200	0.0400	< 0.005	< 0.003	0.0710	-	0.00600	1.70
	WQ7	Surface		11/14/2011	0.0800	< 0.01	-	0.300	0.0500	< 0.005	< 0.003	0.0110	-	0.00200	2.10
	WQ7	Surface	Dup	12/13/2011	< 0.08	< 0.02	-	0.500	0.0500	0.0120	< 0.003	0.00300	-	0.00100	2.20
	WQ7	Surface		12/13/2011	0.110	< 0.02	-	0.300	0.0500	0.0100	< 0.003	< 0.003	-	0.00100	2.10
	WQ7	Surface		1/12/2012	< 0.08	< 0.02	-	0.300	0.0500	0.0210	0.00600	0.00800	-	0.00500	2.60
	WQ7	Surface	Dup	2/13/2012	0.140	< 0.01	-	0.300	0.0600	0.0120	0.00600	0.00700	-	0.00300	3.40
	WQ7	Surface		2/13/2012	0.270	< 0.01	-	0.400	0.0600	0.0130	0.00500	< 0.003	-	0.00400	3.40
	WQ7	Surface		3/12/2012	0.160	< 0.02	-	0.200	0.0600	0.0100	< 0.003	< 0.003	-	< 0.001	3.20
	WQ7	Surface	Dup	4/17/2012	0.180	< 0.02	-	0.400	0.0700	< 0.005	0.0130	0.00600	-	0.0210	1.70
	WQ7	Surface		4/17/2012	0.200	< 0.02	-	0.400	0.0700	< 0.005	0.0110	< 0.003	-	0.0200	1.90
	WQ7	Surface		5/15/2012	0.210	< 0.02	-	1.00	0.0700	< 0.005	< 0.003	< 0.003	-	0.00600	1.30
	WQ7	Surface		5/23/2012	0.330	< 0.02	-	1.00	0.0700	0.00800	< 0.003	0.0460	-	0.00900	1.40
	WQ7	Surface	Dup	5/28/2012	0.150	0.0200	-	1.50	0.0500	0.0120	0.00500	< 0.003	-	0.00300	1.00
	WQ7	Surface		5/28/2012	0.190	0.0200	-	2.00	0.0800	0.00800	0.00400	< 0.003	-	0.00300	0.900
	WQ7	Surface		6/4/2012	0.150	< 0.02	-	0.700	0.0400	0.00600	< 0.003	< 0.003	-	0.00500	1.10
	WQ7	Surface		6/11/2012	0.130	< 0.02	-	0.300	0.0500	0.00500	< 0.003	< 0.003	-	0.00300	0.800
	WQ7	Surface		6/18/2012	< 0.08	< 0.02	-	0.300	0.0400	0.00800	< 0.003	< 0.003	-	< 0.001	0.900
	WQ7	Surface	Dup	7/16/2012	< 0.08	< 0.02	-	0.600	0.0700	0.00900	0.00300	< 0.003	-	0.00300	1.30
	WQ7	Surface		7/16/2012	0.110	< 0.02	-	0.600	0.0700	0.0110	0.00300	< 0.003	-	< 0.001	1.30
	WQ7	Surface	Dup	8/13/2012	0.100	< 0.02	-	< 0.1	< 0.02	< 0.005	< 0.003	< 0.003	-	0.0110	2.60
	WQ7	Surface		8/13/2012	0.0900	< 0.02	-	< 0.1	< 0.02	< 0.005	< 0.003	< 0.003	-	0.0120	2.60
	WQ7	Surface		9/17/2012	< 0.08	< 0.02	-	0.200	0.0600	< 0.005	< 0.003	< 0.003	-	0.00400	2.60
	WQ7	Surface		10/16/2012	< 0.08	< 0.02	-	0.300	0.0600	< 0.005	< 0.003	< 0.003	-	0.00600	3.00
	WQ7	Surface	Dup	11/12/2012	0.400	< 0.02	-	0.300	0.0500	0.00900	< 0.003	< 0.003	-	0.00600	2.50
	WQ7	Surface		11/12/2012	0.460	< 0.02	-	0.300	0.0500	< 0.005	< 0.003	< 0.003	-	0.00200	2.50
	WQ7	Surface		12/10/2012	< 0.08	< 0.02	-	0.500	0.0600	0.0760	0.0110	0.00500	-	0.00300	4.00
	WQ7	Surface	Dup	1/15/2013	< 0.08	< 0.02	-	0.300	0.0600	0.0600	< 0.003	< 0.003	-	0.0190	3.60
	WQ7	Surface		1/15/2013	< 0.08	< 0.02	-	0.500	0.0600	0.0860	< 0.003	< 0.003	-	0.0120	3.60
	WQ7	Surface	Dup	2/13/2013	< 0.08	< 0.02	-	0.400	0.0700	0.0430	< 0.003	< 0.003	-	0.00200	3.30
	WQ7	Surface		2/13/2013	0.160	< 0.02	-	0.500	0.0700	0.0400	< 0.003	< 0.003	-	0.00700	3.40
	WQ7	Surface		3/12/2013	< 0.08	< 0.02	-	0.300	0.0700	0.0280	< 0.003	< 0.003	-	0.0330	3.40
	WQ7	Surface	Dup	4/16/2013	0.250	< 0.02	-	0.500	0.0800	0.121	< 0.003	< 0.003	-	0.0210	3.20
	WQ7	Surface		4/16/2013	0.240	< 0.02	-	0.500	0.0800	0.0320	< 0.003	< 0.003	-	0.00900	3.10
	WQ7	Surface		5/14/2013	0.290	< 0.02	-	0.400	0.0500	0.0280	< 0.003	< 0.003	-	< 0.001	1.50
	WQ7	Surface		5/21/2013	0.170	< 0.02	-	0.200	0.0500	0.0230	< 0.003	< 0.003	-	0.00400	1.80
	WQ7	Surface		5/28/2013	0.120	< 0.02	-	0.400	0.0300	0.0240	< 0.003	< 0.003	-	< 0.001	0.800
	WQ7	Surface	Dup	6/4/2013	0.120	< 0.02	-	0.300	0.0300	0.0170	< 0.003	< 0.003	-	0.0130	0.800
	WQ7	Surface		6/4/2013	0.120	< 0.02	-	0.300	0.0300	0.0360	< 0.003	< 0.003	-	0.0130	0.800

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LabID	Site	Depth	QAQC	Date	Anions and Nutrients										
					Total Kjeldahl	Ammonia, Total (as N)	Bromide (Br)	Chloride (Cl)	Fluoride (F)	Nitrate (as N)	Nitrite (as N)	Orthophosphate-Dissolved	Phosphorus (P)-	Phosphorus Total	Sulfate (SO ₄)
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ7	Surface		6/11/2013	0.0900	< 0.02	-	1.10	0.0300	0.0560	< 0.003	< 0.003	-	< 0.001	1.00
	WQ7	Surface	Dup	6/18/2013	0.650	< 0.02	-	0.300	0.0400	0.00900	< 0.003	< 0.003	-	0.0310	0.800
	WQ7	Surface		6/18/2013	0.500	< 0.02	-	0.300	0.0400	0.0250	< 0.003	< 0.003	-	0.0260	0.800
	WQ7	Surface		4/13/2014	<0.08	0.0600	-	0.600	0.0600	0.0220	0.00400	<0.003	-	0.0110	2.00
	WQ7	Surface		7/2/2014	0.160	<0.01	-	0.300	0.0500	0.0180	<0.003	0.00700	-	<0.010	1.30
	WQ7	Surface		9/24/2014	<0.08	<0.02	-	<0.1	0.100	<0.005	<0.003	<0.003	-	<0.01	2.40
	WQ7	Surface		12/9/2014	<0.08	<0.02	-	<0.1	0.0700	<0.005	<0.003	<0.003	-	<0.01	2.90
L1812856-9	WQ7	Surface		8/10/2016	0.166	0.0116	<0.050	<0.50	0.0370	<0.0050	<0.0010	0.00390	0.00810	-	1.29
L1815654-9	WQ7	Surface		8/16/2016	0.139	0.00630	<0.050	<0.50	0.0410	<0.0050	<0.0010	0.00400	0.00790	-	1.43
L1819041-2	WQ7	Surface		8/23/2016	0.163	0.00600	<0.050	<0.50	0.0430	<0.0050	<0.0010	0.00410	0.00700	-	1.49
L1823224-2	WQ7	Surface		8/31/2016	0.122	<0.0050	<0.050	<0.50	0.0420	<0.0050	<0.0010	0.00290	0.00740	-	1.57
L1826303-7	WQ7	Surface		9/7/2016	0.172	<0.0050	<0.050	<0.50	0.0410	<0.0050	<0.0010	0.00330	0.00960	-	1.42
L1913531-3	WQ7	Surface		4/12/2017	0.225	<0.0050	<0.050	<0.50	0.0430	<0.0050	<0.0010	0.00370	0.00770	-	2.09
L1926080-8	WQ7	Surface	Dup	5/11/2017	0.381	<0.0050	<0.050	<0.50	0.0260	<0.0050	<0.0010	0.00210	0.0176	-	0.800
L1926080-4	WQ7	Surface		5/11/2017	0.311	<0.0050	<0.050	<0.50	0.0270	<0.0050	<0.0010	0.00210	0.0193	-	0.850
L1939712-7	WQ7	Surface		6/7/2017	0.228	<0.0050	<0.050	<0.50	0.0310	<0.0050	<0.0010	0.00160	0.0128	-	0.760
L1962414-3	WQ7	Surface		7/19/2017	0.115	0.00500	<0.050	<0.50	0.0400	<0.0050	<0.0010	0.00310	0.00850	-	1.74
L1984944-5	WQ7	Surface		8/30/2017	0.0810	<0.0050	<0.050	<0.50	0.0430	<0.0050	<0.0010	0.00410	0.00620	-	2.24
L1988832-4	WQ7	Surface		9/9/2017	0.0880	<0.0050	<0.050	<0.50	0.0450	<0.0050	<0.0010	0.00480	0.00950	-	2.35
L2009845-2	WQ7	Surface		10/17/2017	0.241	<0.0050	<0.050	<0.50	0.0440	<0.0050	<0.0010	0.00440	0.0275	-	2.38
L2020333-6	WQ7	Surface	Dup	11/7/2017	0.129	<0.0050	<0.050	<0.50	0.0450	<0.0050	<0.0010	0.00280	0.00780	-	2.47
L2020333-2	WQ7	Surface		11/7/2017	0.137	<0.0050	<0.050	<0.50	0.0470	<0.0050	<0.0010	0.00290	0.00790	-	2.47
L2034610-2	WQ7	Surface		12/11/2017	0.102	<0.0050	<0.050	<0.50	0.0340	0.0119	<0.0010	0.00290	0.00530	-	2.07
L2049678-1	WQ7	Surface		1/24/2018	<0.050	<0.0050	<0.050	<0.50	0.0400	0.0252	<0.0010	0.00370	0.00570	-	2.61
L2062480-2	WQ7	Surface		2/28/2018	<0.050	<0.0050	<0.050	<0.50	0.0430	0.0295	<0.0010	0.00420	0.00610	-	2.95
L2074294-1	WQ7	Surface		3/28/2018	0.0650	<0.0050	<0.050	<0.50	0.0440	0.0188	<0.0010	0.00440	0.00680	-	2.80
L2081503-1	WQ7	Surface		4/17/2018	0.100	<0.0050	<0.050	<0.50	0.0450	0.00900	<0.0010	0.00450	0.00830	-	2.74
L2097084-8	WQ7	Surface	Dup	5/16/2018	0.352	<0.0050	<0.050	<0.50	0.0320	<0.0050	<0.0010	0.00290	0.0490	-	0.620
L2097084-1	WQ7	Surface		5/16/2018	0.344	<0.0050	<0.050	<0.50	0.0270	<0.0050	<0.0010	0.00300	0.0473	-	0.620
L2104479-1	WQ7	Surface		5/30/2018	0.191	0.00520	<0.050	<0.50	0.0340	<0.0050	<0.0010	0.00310	0.0126	-	0.970
L2132128-7	WQ7	Surface	Dup	7/17/2018	0.116	<0.0050	<0.050	<0.50	0.0440	<0.0050	<0.0010	0.00410	0.00820	-	1.68
L2132128-1	WQ7	Surface		7/17/2018	0.102	<0.0050	<0.050	<0.50	0.0440	<0.0050	<0.0010	0.00430	0.00860	-	1.68
L2144782-2	WQ7	Surface		8/9/2018	0.117	0.0103	<0.050	<0.50	0.0420	0.00530	<0.0010	0.00580	0.0130	-	1.97
L2164448-4	WQ7	Surface	Dup	9/12/2018	0.0950	<0.0050	<0.050	<0.50	0.0470	<0.0050	<0.0010	0.00510	0.0109	-	2.20
L2164448-3	WQ7	Surface		9/12/2018	0.0950	<0.0050	<0.050	<0.50	0.0500	<0.0050	<0.0010	0.00510	0.0126	-	2.38
L2187638-4	WQ7	Surface	Dup	10/24/2018	0.0710	<0.0050	<0.050	<0.50	0.0440	<0.0050	<0.0010	0.00370	0.00690	-	2.24
L2187638-3	WQ7	Surface		10/24/2018	0.0770	<0.0050	<0.050	<0.50	0.0450	<0.0050	<0.0010	0.00380	0.00660	-	2.24
L2203408-2	WQ7	Surface		11/27/2018	0.132	<0.0050	<0.050	<0.50	0.0340	<0.0050	<0.0010	0.00400	0.00760	-	1.85
L2213684-1	WQ7	Surface		12/19/2018	0.118	<0.0050	<0.050	<0.50	0.0410	0.0108	<0.0010	0.00360	0.00660	-	2.31
L2227101-6	WQ7	Surface	Dup	1/29/2019	0.0580	<0.0050	<0.050	<0.50	0.0430	0.0135	<0.0010	0.00380	0.00680	-	2.33
L2227101-1	WQ7	Surface		1/29/2019	0.0600	<0.0050	<0.050	<0.50	0.0440	0.0153	<0.0010	0.00390	0.00710	-	2.32
L2232050-4	WQ7	Surface		2/11/2019	<0.050	<0.0050	<0.050	<0.50	0.0410	0.0254	<0.0010	0.00360	0.00650	-	2.45
L2245144-4	WQ7	Surface		3/14/2019	<0.050	0.00700	<0.050	<0.50	0.0490	0.0382	<0.0010	0.00210	0.00600	-	3.07
L2256054-1	WQ7	Surface		4/9/2019	0.205	<0.0050	<0.050	<0.50	0.0500	<0.0050	<0.0010	0.00410	0.0165	-	1.93

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LabID	Site	Depth	QAQC	Date	Anions and Nutrients										
					Total Kjeldahl	Ammonia, Total (as N)	Bromide (Br)	Chloride (Cl)	Fluoride (F)	Nitrate (as N)	Nitrite (as N)	Orthophosphate-Dissolved	Phosphorus (P)-	Phosphorus Total	Sulfate (SO ₄)
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2269368-6	WQ7	Surface	Dup	5/4/2019	0.245	<0.0050	<0.050	<0.50	0.0410	<0.0050	<0.0010	0.00150	0.0216	-	1.20
L2269368-1	WQ7	Surface		5/4/2019	0.258	0.00530	<0.050	<0.50	0.0410	<0.0050	<0.0010	0.00130	0.0198	-	1.20
L2277964-4	WQ7	Surface		5/21/2019	0.443	<0.0050	<0.050	<0.50	0.0290	<0.0050	<0.0010	0.00280	0.0559	-	0.810
L2282191-2	WQ7	Surface		5/28/2019	0.281	<0.0050	<0.050	<0.50	0.0370	<0.0050	<0.0010	0.00100	0.0214	-	0.760
L2282975-1	WQ7	Surface		5/29/2019	0.307	0.00530	<0.050	<0.50	0.0350	<0.0050	<0.0010	<0.0010	0.0126	-	0.860
L2286702-5	WQ7	Surface	Dup	6/4/2019	0.226	<0.0050	<0.050	<0.50	0.0360	<0.0050	<0.0010	0.00180	0.0101	-	1.01
L2286702-1	WQ7	Surface		6/4/2019	0.235	<0.0050	<0.050	<0.50	0.0410	<0.0050	<0.0010	0.00140	0.00890	-	1.08
L2313851-2	WQ7	Surface		7/18/2019	0.224	<0.0050	<0.050	<0.50	0.0310	<0.0050	<0.0010	0.00180	0.0119	-	0.750
L2328474-3	WQ7	Surface		8/12/2019	0.205	0.00680	<0.050	<0.50	0.0390	<0.0050	<0.0010	0.00220	0.0103	-	0.860
L2349445-1	WQ7	Surface		9/16/2019	0.0790	0.00530	<0.050	<0.50	0.0380	<0.0050	<0.0010	0.00210	0.00720	-	1.54
L2371052-1	WQ7	Surface		10/22/2019	0.198	<0.0050	<0.050	<0.50	0.0420	<0.0050	<0.0010	0.00250	0.0126	-	1.32
L2388381-1	WQ7	Surface		11/25/2019	0.380	0.0304	<0.050	<0.50	0.0420	<0.0050	<0.0010	0.00170	0.0109	-	1.04
VA19A0791-001	WQ7	Surface		12/17/2019	0.108	<0.0050	<0.050	<0.50	0.0400	<0.0050	<0.0010	0.00260	0.00570	-	1.68
VA20A0960-001	WQ7	Surface		1/27/2020	0.0950	<0.0050	<0.050	<0.50	0.0430	0.0168	<0.0010	0.00160	0.00690	-	2.08
VA20A2126-004	WQ7	Surface		2/19/2020	0.0960	<0.0050	<0.050	<0.50	0.0410	0.00530	0.00160	0.00360	0.00660	-	2.30
VA20A3691-002	WQ7	Surface		3/18/2020	0.0870	<0.0050	<0.050	<0.50	0.0490	0.0159	<0.0010	0.00300	0.00530	-	2.67
VA20A4555-002	WQ7	Surface		4/7/2020	0.0600	0.00620	<0.050	<0.50	0.0440	0.0128	<0.0010	0.00280	0.00520	-	2.41
VA20A6218-002	WQ7	Surface		5/7/2020	0.262	<0.0050	<0.050	<0.50	0.0330	<0.0050	<0.0010	0.00190	0.0128	-	0.760
VA20A6503-003	WQ7	Surface		5/13/2020	0.258	0.00760	<0.050	<0.50	0.0280	<0.0050	<0.0010	0.00230	0.0163	-	0.690
VA20A6869-001	WQ7	Surface		5/20/2020	0.247	<0.0050	<0.050	<0.50	0.0260	<0.0050	<0.0010	0.00280	0.0179	-	0.590
VA20A7367-001	WQ7	Surface		5/28/2020	0.209	0.00610	<0.050	<0.50	0.0280	<0.0050	<0.0010	0.00160	0.0326	-	0.730
VA20A7672-004	WQ7	Surface		6/2/2020	0.184	<0.0050	<0.050	<0.50	0.0310	<0.0050	<0.0010	0.00190	0.0135	-	0.830
VA20A9918-005	WQ7	Surface	Dup	7/6/2020	0.188	<0.0050	<0.050	<0.50	0.0350	<0.0050	<0.0010	0.00230	0.00980	-	0.790
VA20A9918-001	WQ7	Surface		7/6/2020	0.184	<0.0050	<0.050	<0.50	0.0350	<0.0050	<0.0010	0.00240	0.00950	-	0.800
VA20B2156-004	WQ7	Surface		8/5/2020	0.120	0.00650	<0.050	<0.50	0.0430	<0.0050	<0.0010	0.00370	0.00710	-	1.54
VA20B2542-005	WQ7	Surface	Dup	8/11/2020	0.120	0.00640	<0.050	<0.50	0.0440	<0.0050	<0.0010	0.00400	0.00560	-	1.47
VA20B2542-003	WQ7	Surface		8/11/2020	0.116	0.00750	<0.050	<0.50	0.0410	<0.0050	<0.0010	0.00340	0.00460	-	1.48
VA20B3218-001	WQ7	Surface		8/18/2020	0.151	0.00580	<0.050	<0.50	0.0380	<0.0050	<0.0010	0.00430	0.0104	-	1.26
VA20B3609-002	WQ7	Surface		8/24/2020	0.143	<0.0050	<0.050	<0.50	0.0440	<0.0050	<0.0010	0.00330	0.00760	-	1.37
VA20B4443-003	WQ7	Surface		9/2/2020	0.124	0.0141	<0.050	<0.50	0.0430	<0.0050	<0.0010	0.00380	0.00680	-	1.59
VA20B7624-001	WQ7	Surface		10/6/2020	0.108	<0.0050	<0.050	<0.50	0.0470	<0.0050	<0.0010	0.00440	0.00810	-	1.72
VA20C0298-001	WQ7	Surface		11/5/2020	0.261	<0.0050	<0.050	<0.50	0.0320	<0.0050	<0.0010	0.00250	0.0177	-	0.930
	WQ8	Surface		4/19/2011	0.580	0.0400	-	0.300	0.0900	0.0410	< 0.003	< 0.003	-	0.0130	4.20
	WQ8	Surface		5/17/2011	0.150	< 0.02	-	0.300	0.0900	0.0190	< 0.003	< 0.003	-	0.00500	4.90
	WQ8	Surface	Dup	5/24/2011	0.280	< 0.02	-	0.500	0.0800	0.0180	< 0.003	< 0.003	-	0.00400	4.80
	WQ8	Surface		5/24/2011	0.180	< 0.02	-	0.400	0.0800	0.0210	< 0.003	< 0.003	-	0.00400	4.40
	WQ8	Surface		5/30/2011	0.380	< 0.02	-	0.200	0.110	< 0.005	0.0120	0.00800	-	0.0150	6.20
	WQ8	Surface		6/6/2011	0.400	< 0.02	-	0.400	0.0800	0.0230	0.00400	0.0120	-	0.00400	4.50
	WQ8	Surface	Dup	6/13/2011	1.03	0.0200	-	0.300	0.0700	< 0.005	< 0.003	< 0.003	-	0.0110	4.10
	WQ8	Surface		6/13/2011	0.750	< 0.02	-	0.300	0.0700	0.00700	< 0.003	< 0.003	-	0.0110	4.00
	WQ8	Surface		7/18/2011	< 0.08	0.0400	-	0.500	0.0700	< 0.005	< 0.003	< 0.003	-	0.00700	3.40
	WQ8	Surface		8/15/2011	0.160	0.0200	-	0.300	0.0600	0.0120	< 0.003	< 0.003	-	0.00500	3.40
	WQ8	Surface		9/19/2011	0.590	< 0.02	-	0.200	0.0600	< 0.005	< 0.003	0.00700	-	0.00500	3.30
	WQ8	Surface		10/17/2011	0.190	< 0.02	-	0.500	0.0700	0.00800	< 0.003	0.0120	-	0.00300	3.50

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					Total Kjeldahl	Ammonia, Total (as N)	Bromide (Br)	Chloride (Cl)	Fluoride (F)	Nitrate (as N)	Nitrite (as N)	Orthophosphate-Dissolved	Phosphorus (P)-	Phosphorus Total	Sulfate (SO ₄)
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ8	Surface		11/14/2011	< 0.08	< 0.01	-	0.300	0.0600	0.0460	< 0.003	0.0190	-	0.00800	3.70
	WQ8	Surface		12/12/2011	0.310	< 0.02	-	0.400	0.0700	0.0590	< 0.003	0.0110	-	0.00900	3.90
	WQ8	Surface		1/12/2012	0.160	< 0.02	-	0.300	0.0700	0.0620	0.00500	0.0190	-	0.0190	4.10
	WQ8	Surface		2/13/2012	0.220	< 0.01	-	0.400	0.0700	0.0280	0.0100	0.0120	-	0.0120	4.70
	WQ8	Surface		3/12/2012	0.100	< 0.02	-	0.300	0.0800	0.0350	< 0.003	0.0110	-	0.00800	4.60
	WQ8	Surface		4/16/2012	0.180	< 0.02	-	0.100	0.0800	< 0.005	0.00900	< 0.003	-	0.0170	3.80
	WQ8	Surface		5/14/2012	0.180	< 0.02	-	1.50	0.100	0.0980	0.00800	< 0.003	-	0.00200	4.20
	WQ8	Surface		5/22/2012	0.230	< 0.02	-	1.40	0.100	0.0270	0.00300	< 0.003	-	0.00600	4.20
	WQ8	Surface		5/28/2012	0.190	0.0200	-	1.80	0.100	0.0150	< 0.003	< 0.003	-	0.00100	4.10
	WQ8	Surface		6/4/2012	0.270	< 0.02	-	0.700	0.0700	0.0110	< 0.003	< 0.003	-	0.00200	4.10
	WQ8	Surface		6/11/2012	0.120	< 0.02	-	0.400	0.0800	< 0.005	< 0.003	< 0.003	-	0.00200	3.60
	WQ8	Surface		6/18/2012	0.300	< 0.02	-	0.400	0.0700	0.00800	< 0.003	< 0.003	-	< 0.001	3.60
	WQ8	Surface		7/16/2012	0.200	< 0.02	-	0.800	0.0900	0.00700	< 0.003	< 0.003	-	0.00100	3.40
	WQ8	Surface		8/13/2012	0.230	< 0.02	-	< 0.1	< 0.02	< 0.005	< 0.003	< 0.003	-	0.0120	4.60
	WQ8	Surface		9/17/2012	0.380	< 0.02	-	0.200	0.0800	< 0.005	< 0.003	< 0.003	-	0.0110	4.10
	WQ8	Surface		10/15/2012	0.230	< 0.02	-	0.200	0.0700	0.0380	< 0.003	< 0.003	-	0.00900	4.20
	WQ8	Surface		11/13/2012	0.500	< 0.02	-	0.400	0.0800	0.0810	< 0.003	< 0.003	-	0.0150	4.20
	WQ8	Surface		1/13/2013	0.270	< 0.02	-	0.400	0.0700	0.0360	< 0.003	< 0.003	-	0.0130	4.90
	WQ8	Surface		2/12/2013	0.100	< 0.02	-	0.500	0.0800	0.0780	0.00600	< 0.003	-	0.0140	4.30
	WQ8	Surface	Dup	3/11/2013	0.180	< 0.02	-	0.300	0.0800	0.0860	< 0.003	< 0.003	-	0.0270	4.50
	WQ8	Surface		3/11/2013	0.290	< 0.02	-	0.500	0.0800	0.0880	< 0.003	< 0.003	-	0.0320	4.40
	WQ8	Surface		4/15/2013	0.310	< 0.02	-	0.400	0.0700	0.0670	< 0.003	< 0.003	-	0.0180	3.50
	WQ8	Surface		5/13/2013	0.180	< 0.02	-	0.400	0.0700	0.102	< 0.003	< 0.003	-	0.0100	4.30
	WQ8	Surface		5/22/2013	0.450	< 0.02	-	0.400	0.0700	0.0630	< 0.003	< 0.003	-	0.0750	2.90
	WQ8	Surface		5/27/2013	0.250	< 0.02	-	0.400	0.0500	0.0330	< 0.003	< 0.003	-	< 0.001	4.00
	WQ8	Surface		6/6/2013	0.320	< 0.02	-	0.400	0.0400	0.0280	< 0.003	< 0.003	-	0.0130	3.30
	WQ8	Surface		6/10/2013	0.180	< 0.02	-	0.300	0.0700	0.0190	< 0.003	< 0.003	-	< 0.001	3.40
	WQ8	Surface		6/17/2013	0.380	< 0.02	-	0.300	0.0500	0.0270	< 0.003	< 0.003	-	0.0190	3.20
	WQ8	Surface		4/13/2014	0.0100	0.0300	-	0.600	0.0600	0.0890	0.00500	<0.003	-	0.0260	3.10
	WQ8	Surface		7/2/2014	0.240	< 0.02	-	0.400	0.0700	<0.005	<0.003	0.00600	-	<0.010	3.30
	WQ8	Surface		9/24/2014	0.0800	<0.02	-	0.100	0.100	<0.005	<0.003	<0.003	-	<0.01	3.20
	WQ8	Surface	Dup	12/9/2014	0.110	<0.02	-	0.200	0.0900	0.123	<0.003	<0.003	-	0.0230	3.80
	WQ8	Surface		12/9/2014	0.130	<0.02	-	0.300	0.0900	0.103	<0.003	<0.003	-	0.0230	3.80
L1913531-6	WQ8	Surface		4/12/2017	0.367	<0.0050	<0.050	<0.50	0.0500	<0.0050	<0.0010	0.00130	0.0145	-	3.25
L1926080-3	WQ8	Surface		5/11/2017	0.312	<0.0050	<0.050	<0.50	0.0500	0.0106	0.00160	0.00330	0.0142	-	3.80
L1939712-8	WQ8	Surface		6/7/2017	0.336	0.00560	<0.050	<0.50	0.0600	<0.0050	<0.0010	<0.0010	0.0118	-	3.58
L1962414-4	WQ8	Surface		7/19/2017	0.308	<0.0050	<0.050	<0.50	0.0570	<0.0050	<0.0010	<0.0010	0.0169	-	3.75
L1984944-6	WQ8	Surface		8/30/2017	0.325	<0.0050	<0.050	<0.50	0.0530	<0.0050	<0.0010	<0.0010	0.00800	-	3.79
L1987355-1	WQ8	Surface		9/5/2017	0.297	0.00580	<0.050	<0.50	0.0560	<0.0050	<0.0010	<0.0010	0.00940	-	3.90
L2009845-4	WQ8	Surface		10/17/2017	0.344	0.00570	<0.050	<0.50	0.0560	<0.0050	<0.0010	<0.0010	0.0104	-	3.76
L2020333-4	WQ8	Surface		11/7/2017	0.282	<0.0050	<0.050	<0.50	0.0740	0.0766	<0.0010	0.0195	0.0333	-	4.30
L2034610-1	WQ8	Surface		12/11/2017	0.301	<0.0050	<0.050	<0.50	0.0560	0.0860	<0.0010	0.0216	0.0324	-	3.96
L2049224-5	WQ8	Surface	Dup	1/23/2018	0.255	0.00650	<0.050	<0.50	0.0550	0.102	<0.0010	0.0240	0.0286	-	4.05
L2049224-1	WQ8	Surface		1/23/2018	0.241	0.00950	<0.050	<0.50	0.0550	0.0949	<0.0010	0.0229	0.0316	-	4.09

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					Total Kjeldahl	Ammonia, Total (as N)	Bromide (Br)	Chloride (Cl)	Fluoride (F)	Nitrate (as N)	Nitrite (as N)	Orthophosphate-Dissolved	Phosphorus (P)-	Phosphorus Total	Sulfate (SO ₄)
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2057954-1	WQ8	Surface		2/15/2018	0.286	0.00520	<0.050	<0.50	0.0570	0.107	0.00110	0.0244	0.0244	-	3.98
L2073898-2	WQ8	Surface		3/27/2018	0.306	0.00620	<0.050	<0.50	0.0510	0.122	<0.0010	0.0235	0.0298	-	4.02
L2081503-2	WQ8	Surface		4/17/2018	0.246	<0.0050	<0.050	<0.50	0.0590	0.0953	<0.0010	0.0218	0.0290	-	4.03
L2096380-1	WQ8	Surface		5/15/2018	0.333	<0.0050	<0.050	<0.50	0.0560	<0.0050	<0.0010	0.00810	0.0294	-	3.85
L2104479-2	WQ8	Surface		5/30/2018	0.326	0.00770	<0.050	<0.50	0.0570	0.00940	<0.0010	0.00800	0.0215	-	3.48
L2132128-2	WQ8	Surface		7/17/2018	0.382	<0.0050	<0.050	0.790	0.0580	<0.0050	<0.0010	<0.0010	0.0149	-	3.65
L2144782-1	WQ8	Surface		8/9/2018	0.479	0.00610	<0.050	<0.50	0.0520	<0.0050	<0.0010	<0.0010	0.0228	-	3.40
L2164448-2	WQ8	Surface		9/12/2018	0.555	0.0172	<0.050	<0.50	0.0570	<0.0050	<0.0010	0.00120	0.0195	-	3.67
L2187638-2	WQ8	Surface		10/24/2018	0.558	0.00790	<0.050	<0.50	0.0600	0.0239	<0.0010	<0.0010	0.0507	-	3.74
L2203408-3	WQ8	Surface		11/27/2018	0.300	0.00830	<0.050	<0.50	0.0590	0.104	0.00180	0.0205	0.0388	-	3.59
L2213684-6	WQ8	Surface	Dup	12/19/2018	0.293	<0.0050	<0.050	<0.50	0.0590	0.106	0.00150	0.0213	0.0287	-	3.89
L2213684-2	WQ8	Surface		12/19/2018	0.274	<0.0050	<0.050	<0.50	0.0600	0.114	0.00160	0.0225	0.0309	-	3.87
L2227101-2	WQ8	Surface		1/29/2019	0.281	<0.0050	<0.050	<0.50	0.0620	0.123	<0.0010	0.0214	0.0312	-	3.80
L2232050-5	WQ8	Surface		2/11/2019	0.306	0.00790	<0.050	<0.50	0.0590	0.127	<0.0010	0.0216	0.0322	-	3.74
L2245144-1	WQ8	Surface		3/14/2019	0.277	0.0124	<0.050	<0.50	0.0640	0.122	<0.0010	0.0197	0.0290	-	3.97
L2256054-2	WQ8	Surface		4/9/2019	0.315	0.00810	<0.050	<0.50	0.0550	0.0552	<0.0010	0.0233	0.0444	-	2.75
L2277964-1	WQ8	Surface		5/21/2019	0.328	<0.0050	<0.050	<0.50	0.0620	0.0189	0.00320	<0.0010	0.0286	-	3.79
L2286702-2	WQ8	Surface		6/4/2019	0.328	0.00600	<0.050	<0.50	0.0620	<0.0050	<0.0010	<0.0010	0.0191	-	3.61
L2313851-3	WQ8	Surface		7/18/2019	0.337	0.00660	<0.050	<0.50	0.0550	<0.0050	<0.0010	<0.0010	0.0127	-	3.23
L2328474-4	WQ8	Surface		8/12/2019	0.352	0.00730	<0.050	<0.50	0.0630	<0.0050	<0.0010	<0.0010	0.00870	-	3.52
L2349445-2	WQ8	Surface		9/16/2019	0.300	0.00760	<0.050	<0.50	0.0560	<0.0050	<0.0010	<0.0010	0.0112	-	3.54
L2371052-2	WQ8	Surface		10/22/2019	0.533	0.0277	<0.050	<0.50	0.0640	<0.0050	<0.0010	<0.0010	0.0201	-	3.46
L2388381-2	WQ8	Surface		11/25/2019	0.619	0.0297	<0.050	<0.50	0.0610	0.0813	<0.0010	0.0253	0.0333	-	3.40
VA19A0791-002	WQ8	Surface		12/17/2019	0.285	0.0110	<0.050	<0.50	0.0660	0.0617	0.00140	0.0177	0.0291	-	3.83
VA20A0960-002	WQ8	Surface		1/27/2020	0.282	0.00840	<0.050	<0.50	0.0620	0.0680	<0.0010	0.0161	0.0275	-	3.93
VA20A2126-002	WQ8	Surface		2/19/2020	0.277	<0.0050	<0.050	<0.50	0.0600	0.0854	0.00280	0.0232	0.0326	-	4.03
VA20A3691-003	WQ8	Surface		3/18/2020	0.299	<0.0050	<0.050	<0.50	0.0650	0.0922	<0.0010	0.0244	0.0345	-	4.16
VA20A4555-003	WQ8	Surface		4/7/2020	0.283	0.00600	<0.050	<0.50	0.0630	0.0521	<0.0010	0.0177	0.0285	-	3.84
VA20A6356-001	WQ8	Surface		5/11/2020	0.302	0.00660	<0.050	<0.50	0.0540	0.00960	<0.0010	0.0134	0.0284	-	3.69
VA20A7797-004	WQ8	Surface		6/3/2020	0.374	0.00720	<0.050	<0.50	0.0470	<0.0050	<0.0010	0.00330	0.0247	-	3.11
VA20B0021-004	WQ8	Surface		7/7/2020	0.316	0.00690	<0.050	<0.50	0.0600	<0.0050	<0.0010	<0.0010	0.0115	-	3.40
VA20B2156-005	WQ8	Surface		8/5/2020	0.413	0.00690	<0.050	<0.50	0.0620	<0.0050	<0.0010	<0.0010	0.0160	-	3.74
VA20B4443-004	WQ8	Surface		9/2/2020	0.517	0.0644	<0.050	<0.50	0.0600	0.00590	<0.0010	0.00120	0.0202	-	3.53
VA20B7624-002	WQ8	Surface		10/6/2020	0.405	0.0569	<0.050	<0.50	0.0560	0.0480	0.00870	0.00360	0.0166	-	3.64
VA20C0298-002	WQ8	Surface		11/5/2020	0.566	0.0110	<0.050	<0.50	0.0670	0.117	0.00200	0.0133	0.0556	-	2.95
	WQ9	Surface	Dup	3/30/2011	0.250	< 0.02	-	0.300	0.100	0.0650	< 0.003	< 0.003	-	0.00800	5.10
	WQ9	Surface		3/30/2011	0.280	< 0.02	-	0.300	0.0900	0.0690	< 0.003	< 0.003	-	0.0120	4.70
	WQ9	Surface	Dup	4/19/2011	0.580	< 0.02	-	0.300	0.0900	0.0420	< 0.003	< 0.003	-	0.0160	4.50
	WQ9	Surface		4/19/2011	0.670	< 0.02	-	0.400	0.0800	0.0420	< 0.003	< 0.003	-	0.0160	4.40
	WQ9	Surface		5/17/2011	0.130	< 0.02	-	0.400	0.0800	< 0.005	< 0.003	0.00300	-	0.0180	4.50
	WQ9	Surface		5/24/2011	0.280	< 0.02	-	0.500	0.0700	0.00700	< 0.003	< 0.003	-	0.0120	4.20
	WQ9	Surface	Dup	5/30/2011	0.180	< 0.02	-	0.300	0.0800	< 0.005	0.0150	< 0.003	-	0.0120	5.30
	WQ9	Surface		5/30/2011	0.580	< 0.02	-	0.200	0.0800	< 0.005	0.0190	< 0.003	-	0.0130	5.10
	WQ9	Surface		6/6/2011	0.450	< 0.02	-	0.400	0.0800	0.0380	< 0.003	< 0.003	-	0.00700	4.40

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Anions and Nutrients										
					Total Kjeldahl	Ammonia, Total (as N)	Bromide (Br)	Chloride (Cl)	Fluoride (F)	Nitrate (as N)	Nitrite (as N)	Orthophosphate-Dissolved	Phosphorus (P)-	Phosphorus Total	Sulfate (SO ₄)
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ9	Surface		6/13/2011	0.510	< 0.02	-	0.300	0.0700	0.00600	< 0.003	< 0.003	-	0.00900	3.80
	WQ9	Surface		7/18/2011	0.150	0.0200	-	0.500	0.0600	< 0.005	< 0.003	< 0.003	-	0.00800	3.10
	WQ9	Surface		8/15/2011	< 0.08	< 0.02	-	0.300	0.0600	0.0140	< 0.003	0.00600	-	0.00700	3.10
	WQ9	Surface		9/19/2011	0.140	< 0.02	-	0.300	0.0600	0.00600	< 0.003	0.0120	-	0.00800	3.20
	WQ9	Surface		10/17/2011	0.140	< 0.02	-	0.300	0.0600	< 0.005	< 0.003	0.0610	-	0.00800	3.20
	WQ9	Surface		11/14/2011	< 0.08	< 0.01	-	0.300	0.0600	0.0370	< 0.003	0.0120	-	0.00600	3.60
	WQ9	Surface		12/12/2011	0.140	< 0.02	-	0.400	0.0700	0.0540	< 0.003	0.00800	-	0.00900	3.70
	WQ9	Surface		1/12/2012	0.150	< 0.02	-	0.400	0.0700	0.0600	0.00900	0.0100	-	0.0200	4.40
	WQ9	Surface		2/13/2012	0.220	< 0.01	-	0.400	0.0600	0.0250	0.00900	0.0110	-	0.0120	4.60
	WQ9	Surface		3/12/2012	< 0.08	< 0.02	-	0.300	0.0700	0.0270	< 0.003	0.00700	-	0.00600	4.80
	WQ9	Surface		4/17/2012	0.130	< 0.02	-	0.400	0.0800	0.00900	0.0100	< 0.003	-	0.0160	4.10
	WQ9	Surface		5/14/2012	0.300	< 0.02	-	1.20	0.100	0.0500	0.00300	< 0.003	-	0.0120	3.50
	WQ9	Surface	Dup	5/22/2012	0.210	< 0.02	-	1.10	0.0900	< 0.005	0.00400	< 0.003	-	0.00800	4.30
	WQ9	Surface		5/22/2012	0.200	< 0.02	-	0.900	0.0800	< 0.005	0.00500	< 0.003	-	0.00700	3.60
	WQ9	Surface		5/28/2012	0.190	0.0300	-	1.50	0.0900	0.00900	0.00300	< 0.003	-	0.00300	2.90
	WQ9	Surface		6/4/2012	0.200	< 0.02	-	0.700	0.0600	0.00900	< 0.003	< 0.003	-	0.00300	3.70
	WQ9	Surface		6/11/2012	0.180	< 0.02	-	0.400	0.0600	0.00500	< 0.003	< 0.003	-	0.00100	3.00
	WQ9	Surface		6/18/2012	0.140	< 0.02	-	0.400	0.0700	0.00800	< 0.003	< 0.003	-	< 0.001	3.20
	WQ9	Surface		7/16/2012	0.190	< 0.02	-	0.700	0.0900	0.00900	< 0.003	< 0.003	-	0.00100	3.30
	WQ9	Surface		8/13/2012	0.200	< 0.02	-	< 0.1	< 0.02	< 0.005	< 0.003	< 0.003	-	0.0140	4.40
	WQ9	Surface		9/17/2012	0.200	< 0.02	-	0.200	0.0700	< 0.005	< 0.003	< 0.003	-	0.00500	3.90
	WQ9	Surface		10/16/2012	0.290	< 0.02	-	0.300	0.0700	0.00600	0.00400	< 0.003	-	0.00700	4.20
	WQ9	Surface		11/12/2012	0.490	< 0.02	-	0.300	0.0600	0.0310	< 0.003	< 0.003	-	0.00900	3.80
	WQ9	Surface	Dup	12/10/2012	0.250	< 0.02	-	0.700	0.0700	0.103	0.0200	< 0.003	-	0.0130	5.60
	WQ9	Surface		12/10/2012	0.200	< 0.02	-	0.700	0.0700	0.113	0.0140	< 0.003	-	0.0140	5.50
	WQ9	Surface		1/15/2013	0.130	< 0.02	-	0.400	0.0700	0.0840	< 0.003	< 0.003	-	0.0120	4.60
	WQ9	Surface		2/13/2013	0.100	< 0.02	-	0.500	0.0800	0.0730	< 0.003	< 0.003	-	0.00900	4.70
	WQ9	Surface		3/12/2013	0.120	< 0.02	-	0.400	0.0800	0.0680	< 0.003	< 0.003	-	0.0460	4.50
	WQ9	Surface		4/16/2013	0.270	< 0.02	-	0.400	0.0800	0.112	< 0.003	< 0.003	-	0.0150	4.60
	WQ9	Surface		5/14/2013	0.200	< 0.02	-	0.400	0.0600	0.0150	< 0.003	< 0.003	-	0.00300	3.50
	WQ9	Surface		5/21/2013	0.230	< 0.02	-	0.300	0.0600	0.0140	< 0.003	< 0.003	-	0.00700	4.00
	WQ9	Surface	Dup	5/28/2013	0.170	< 0.02	-	0.600	0.0400	0.0320	< 0.003	< 0.003	-	< 0.001	3.30
	WQ9	Surface		5/28/2013	0.140	< 0.02	-	0.500	0.0400	0.0260	< 0.003	< 0.003	-	< 0.001	3.40
	WQ9	Surface		6/4/2013	0.140	< 0.02	-	0.400	0.0400	0.0140	< 0.003	< 0.003	-	0.0150	2.80
	WQ9	Surface		6/11/2013	0.200	< 0.02	-	0.800	0.0600	0.0450	< 0.003	< 0.003	-	< 0.001	3.00
	WQ9	Surface		6/18/2013	0.650	< 0.02	-	0.400	0.0500	0.0230	< 0.003	< 0.003	-	0.0250	2.90
	WQ9	Surface		4/13/2014	0.110	0.0200	-	0.600	0.0700	0.0750	< 0.003	< 0.003	-	0.0200	3.40
	WQ9	Surface	Dup	7/2/2014	0.200	< 0.01	-	0.400	0.0700	0.0100	< 0.003	0.00500	-	< 0.010	3.20
	WQ9	Surface		7/2/2014	0.270	< 0.02	-	0.300	0.0700	< 0.005	< 0.003	0.00400	-	< 0.010	3.00
	WQ9	Surface		9/24/2014	< 0.08	< 0.02	-	< 0.1	0.100	< 0.005	< 0.003	< 0.003	-	< 0.01	3.00
	WQ9	Surface		12/9/2014	0.190	< 0.02	-	0.200	0.100	< 0.115	< 0.003	< 0.003	-	0.0200	3.80
L1812856-10	WQ9	Surface		8/10/2016	0.344	0.00710	< 0.050	< 0.50	0.0550	< 0.0050	0.00130	< 0.0010	0.0106	-	3.39
L1815654-10	WQ9	Surface		8/16/2016	0.418	0.00670	< 0.050	< 0.50	0.0560	< 0.0050	< 0.0010	< 0.0010	0.0142	-	3.28
L1819041-1	WQ9	Surface		8/23/2016	0.336	0.00840	< 0.050	< 0.50	0.0590	0.00640	< 0.0010	0.00180	0.0134	-	3.26

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LabID	Site	Depth	QAQC	Date	Anions and Nutrients										
					Total Kjeldahl	Ammonia, Total (as N)	Bromide (Br)	Chloride (Cl)	Fluoride (F)	Nitrate (as N)	Nitrite (as N)	Orthophosphate-Dissolved	Phosphorus (P)-	Phosphorus Total	Sulfate (SO ₄)
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1823224-3	WQ9	Surface		8/31/2016	0.330	0.0121	<0.050	<0.50	0.0540	0.0104	<0.0010	0.00330	0.0162	-	3.28
L1826303-6	WQ9	Surface	Dup	9/7/2016	0.327	0.00640	<0.050	<0.50	0.0540	0.00690	<0.0010	0.00310	0.0186	-	3.31
L1826303-10	WQ9	Surface		9/7/2016	0.181	<0.0050	<0.050	<0.50	0.0420	<0.0050	<0.0010	0.00360	0.00910	-	1.44
L1913531-7	WQ9	Surface		4/12/2017	0.314	0.00530	<0.050	<0.50	0.0480	<0.0050	<0.0010	0.00220	0.0168	-	3.46
L1926080-5	WQ9	Surface		5/11/2017	0.286	0.00650	<0.050	<0.50	0.0430	0.00840	<0.0010	0.00240	0.0167	-	3.25
L1939712-9	WQ9	Surface		6/7/2017	0.318	<0.0050	<0.050	<0.50	0.0520	<0.0050	<0.0010	0.00100	0.0168	-	3.09
L1962414-5	WQ9	Surface		7/19/2017	0.296	0.0117	<0.050	<0.50	0.0540	<0.0050	<0.0010	0.00100	0.0120	-	3.51
L1984944-7	WQ9	Surface		8/30/2017	0.265	<0.0050	<0.050	<0.50	0.0520	<0.0050	<0.0010	0.00250	0.0113	-	3.53
L1988832-5	WQ9	Surface		9/9/2017	0.282	<0.0050	<0.050	<0.50	0.0560	<0.0050	<0.0010	0.00230	0.0140	-	3.78
L2009845-6	WQ9	Surface	Dup	10/17/2017	0.262	0.00590	<0.050	<0.50	0.0520	<0.0050	<0.0010	0.00270	0.00960	-	3.70
L2009845-3	WQ9	Surface		10/17/2017	0.293	0.00630	<0.050	<0.50	0.0530	<0.0050	<0.0010	0.00250	0.0128	-	3.70
L2020333-3	WQ9	Surface		11/7/2017	0.263	0.0100	<0.050	<0.50	0.0630	0.0428	<0.0010	0.00910	0.0215	-	4.13
L2034610-6	WQ9	Surface	Dup	12/11/2017	0.276	0.00760	<0.050	<0.50	0.0520	0.0521	<0.0010	0.0129	0.0216	-	3.74
L2034610-3	WQ9	Surface		12/11/2017	0.256	0.00800	<0.050	<0.50	0.0520	0.0520	<0.0010	0.0119	0.0208	-	3.75
L2049224-2	WQ9	Surface		1/23/2018	0.181	0.00670	<0.050	<0.50	0.0520	0.0777	0.00140	0.0165	0.0230	-	4.06
L2057025-1	WQ9	Surface		2/13/2018	0.226	0.00730	<0.050	<0.50	0.0530	0.0828	0.00170	0.0173	0.0250	-	4.04
L2074294-2	WQ9	Surface		3/28/2018	0.496	0.0741	<0.050	<0.50	0.0570	0.0751	<0.0010	0.0216	0.0445	-	4.00
L2081503-3	WQ9	Surface		4/17/2018	0.463	0.121	<0.050	<0.50	0.0590	0.0583	<0.0010	0.0411	0.0748	-	4.09
L2097084-2	WQ9	Surface		5/16/2018	0.355	<0.0050	<0.050	<0.50	0.0480	<0.0050	<0.0010	0.00520	0.0220	-	3.06
L2104479-5	WQ9	Surface	Dup	5/30/2018	0.303	0.00780	<0.050	<0.50	0.0520	<0.0050	<0.0010	0.00600	0.0220	-	3.32
L2104479-3	WQ9	Surface		5/30/2018	0.319	0.00800	<0.050	<0.50	0.0530	<0.0050	<0.0010	0.00620	0.0207	-	3.20
L2132128-3	WQ9	Surface		7/17/2018	0.294	<0.0050	<0.050	<0.50	0.0550	<0.0050	<0.0010	<0.0010	0.0156	-	3.35
L2144782-3	WQ9	Surface		8/9/2018	0.344	0.0188	<0.050	<0.50	0.0530	0.00680	<0.0010	0.00290	0.0201	-	3.29
L2164448-5	WQ9	Surface		9/12/2018	0.369	0.00790	<0.050	<0.50	0.0540	<0.0050	<0.0010	0.00170	0.0157	-	3.36
L2187638-5	WQ9	Surface		10/24/2018	0.448	0.00720	<0.050	<0.50	0.0590	0.0101	<0.0010	0.00170	0.0446	-	3.80
L2203408-4	WQ9	Surface		11/27/2018	0.241	0.00800	<0.050	<0.50	0.0540	0.0685	0.00120	0.0140	0.0239	-	3.74
L2213684-3	WQ9	Surface		12/19/2018	0.264	0.00670	<0.050	<0.50	0.0560	0.0964	0.00130	0.0172	0.0274	-	3.92
L2227101-3	WQ9	Surface		1/29/2019	0.310	<0.0050	<0.050	<0.50	0.0570	0.107	<0.0010	0.0197	0.0306	-	3.78
L2233329-3	WQ9	Surface		2/13/2019	0.236	0.0106	<0.050	<0.50	0.0640	0.115	<0.0010	0.0195	0.0287	-	4.57
L2245144-3	WQ9	Surface		3/14/2019	0.292	0.0150	<0.050	<0.50	0.0640	0.103	<0.0010	0.0132	0.0420	-	4.16
L2256054-3	WQ9	Surface		4/9/2019	0.312	0.00640	<0.050	<0.50	0.0540	0.0437	<0.0010	0.00990	0.0284	-	4.75
L2274397-4	WQ9	Surface		5/14/2019	0.325	0.00580	<0.050	<0.50	0.0470	<0.0050	<0.0010	<0.0010	0.0582	-	3.78
L2286702-3	WQ9	Surface		6/4/2019	0.368	0.0119	<0.050	<0.50	0.0590	<0.0050	<0.0010	<0.0010	0.0185	-	3.59
L2313851-4	WQ9	Surface		7/18/2019	0.314	0.00780	<0.050	<0.50	0.0490	0.00570	<0.0010	0.00160	0.0142	-	2.97
L2325935-3	WQ9	Surface		8/7/2019	0.331	0.0228	<0.050	<0.50	0.0480	<0.0050	<0.0010	<0.0010	0.0133	-	2.81
L2349445-3	WQ9	Surface		9/16/2019	0.273	0.00880	<0.050	<0.50	0.0590	<0.0050	<0.0010	0.00270	0.0139	-	3.45
L2371052-3	WQ9	Surface		10/22/2019	0.290	0.00890	<0.050	<0.50	0.0550	<0.0050	<0.0010	0.00150	0.0147	-	3.60
L2388381-3	WQ9	Surface		11/25/2019	0.540	0.0285	<0.050	<0.50	0.0580	0.0507	<0.0010	0.0171	0.0251	-	3.40
VA19A0791-003	WQ9	Surface		12/17/2019	0.247	0.00750	<0.050	<0.50	0.0640	0.0597	0.00110	0.0154	0.0267	-	3.93
VA20A0960-005	WQ9	Surface	Dup	1/27/2020	0.246	0.00790	<0.050	<0.50	0.0580	0.0746	<0.0010	0.0157	0.0358	-	4.02
VA20A0960-003	WQ9	Surface		1/27/2020	0.271	0.0143	<0.050	<0.50	0.0590	0.0755	<0.0010	0.0158	0.0294	-	4.08
VA20A2211-003	WQ9	Surface		2/20/2020	0.237	<0.0050	<0.050	<0.50	0.0580	0.0571	0.00120	0.0171	0.0244	-	4.20
VA20A3691-004	WQ9	Surface		3/18/2020	0.344	0.00690	<0.050	<0.50	0.0620	0.0528	<0.0010	0.0163	0.0335	-	4.34
VA20A4555-004	WQ9	Surface		4/7/2020	0.288	0.0179	<0.050	<0.50	0.0580	0.0616	<0.0010	0.0157	0.0476	-	3.78

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Anions and Nutrients										
					Total Kjeldahl	Ammonia, Total (as N)	Bromide (Br)	Chloride (Cl)	Fluoride (F)	Nitrate (as N)	Nitrite (as N)	Orthophosphate-Dissolved	Phosphorus (P)-	Phosphorus Total	Sulfate (SO ₄)
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
VA20A6218-005	WQ9	Surface	Dup	5/7/2020	0.287	0.00720	<0.050	<0.50	0.0510	0.0243	0.00140	0.0100	0.0224	-	3.36
VA20A6218-003	WQ9	Surface		5/7/2020	0.296	0.00500	<0.050	<0.50	0.0510	0.0273	0.00240	0.00980	0.0236	-	3.38
VA20A6503-004	WQ9	Surface		5/13/2020	0.298	0.00650	<0.050	<0.50	0.0480	<0.0050	<0.0010	0.00510	0.0265	-	3.10
VA20A6869-006	WQ9	Surface	Dup	5/20/2020	0.303	0.0123	<0.050	<0.50	0.0490	<0.0050	<0.0010	0.00490	0.0220	-	2.90
VA20A6869-002	WQ9	Surface		5/20/2020	0.302	<0.0050	<0.050	<0.50	0.0480	<0.0050	<0.0010	0.00490	0.0205	-	2.91
VA20A7367-002	WQ9	Surface		5/28/2020	0.284	0.00970	<0.050	<0.50	0.0520	0.0141	<0.0010	0.00970	0.0268	-	3.16
VA20A7672-003	WQ9	Surface		6/2/2020	0.300	0.00710	<0.050	<0.50	0.0480	<0.0050	<0.0010	0.00380	0.0210	-	3.17
VA20A9918-002	WQ9	Surface		7/6/2020	0.301	<0.0050	<0.050	<0.50	0.0480	<0.0050	<0.0010	<0.0010	0.0142	-	3.18
VA20B2156-006	WQ9	Surface		8/5/2020	0.394	0.00600	<0.050	<0.50	0.0580	<0.0050	<0.0010	<0.0010	0.0225	-	3.51
VA20B2426-001	WQ9	Surface		8/10/2020	0.370	0.00620	<0.050	<0.50	0.0570	<0.0050	<0.0010	<0.0010	0.0166	-	3.24
VA20B3033-005	WQ9	Surface	Dup	8/17/2020	0.733	0.0282	<0.050	<0.50	0.0650	0.00860	<0.0010	<0.0010	0.0436	-	3.60
VA20B3033-003	WQ9	Surface		8/17/2020	0.831	0.0283	<0.050	<0.50	0.0610	0.00640	<0.0010	<0.0010	0.0663	-	3.62
VA20B3609-003	WQ9	Surface		8/24/2020	0.462	0.0381	<0.050	<0.50	0.0560	0.00690	0.00150	0.00310	0.0263	-	3.34
VA20B4443-005	WQ9	Surface		9/2/2020	0.383	0.0384	<0.050	<0.50	0.0580	0.0101	0.00210	0.00330	0.0213	-	3.33
VA20B7624-003	WQ9	Surface		10/6/2020	0.295	0.0172	<0.050	<0.50	0.0550	0.0200	0.00330	0.00390	0.0146	-	3.48
VA20C0298-003	WQ9	Surface		11/5/2020	0.328	0.00850	<0.050	<0.50	0.0480	0.0485	0.00160	0.00910	0.0287	-	3.29

Notes:

"-" indicates parameter was not analyzed.

"<" value is below the detection limit

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Cyanides			Organic / Inorganic Carbon		Total Metals			
					Cyanide, Total	Cyanide, Weak Acid Diss	Thiocyanate	Dissolved Organic	Total Organic	Aluminum (Al)-Total	Antimony (Sb)-Total	Arsenic (As)-Total	Barium (Ba)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1989016-1	BI-09	Surface		9/7/2017	<0.0050	<0.0050	<0.50	4.63	4.68	0.0247	<0.00010	0.000190	0.0129
L2049224-4	BI-09	Surface		1/23/2018	<0.0050	<0.0050	<0.50	6.69	6.78	0.0684	<0.00010	0.000240	0.00840
L2062480-1	BI-09	Surface		2/27/2018	<0.0050	<0.0050	<0.50	6.10	6.13	0.0427	<0.00010	0.000210	0.00839
L2073898-1	BI-09	Surface		3/27/2018	<0.0050	<0.0050	<0.50	6.15	5.90	0.0344	<0.00010	0.000160	0.00773
L2081505-2	BI-09	Surface	Dup	4/16/2018	<0.0050	<0.0050	<0.50	8.59	8.71	0.108	<0.00010	0.000230	0.00931
L2081505-1	BI-09	Surface		4/16/2018	<0.0050	<0.0050	<0.50	8.61	8.82	0.110	<0.00010	0.000220	0.00884
L2096380-2	BI-09	Surface		5/15/2018	<0.0050	<0.0050	0.930	13.0	13.1	0.209	<0.00010	0.000220	0.00674
L2102737-3	BI-09	Surface		5/28/2018	<0.0050	<0.0050	0.900	11.6	11.7	0.175	<0.00010	0.000210	0.00749
L2132128-4	BI-09	Surface		7/17/2018	<0.0050	<0.0050	0.690	7.26	7.05	0.0685	<0.00010	0.000230	0.00901
L2144658-1	BI-09	Surface		8/8/2018	<0.0050	<0.0050	<0.50	5.31	5.32	0.0323	<0.00010	0.000190	0.00981
L2163669-1	BI-09	Surface		9/11/2018	<0.0050	<0.0050	<0.50	4.26	4.28	0.0195	<0.00010	0.000180	0.00953
L2187638-1	BI-09	Surface		10/24/2018	<0.0050	<0.0050	<0.50	6.31	6.26	0.0335	<0.00010	0.000190	0.00805
L2204086-3	BI-09	Surface		11/28/2018	<0.0050	<0.0050	<0.50	11.2	11.5	0.243	<0.00010	0.000240	0.00876
L2213684-5	BI-09	Surface		12/19/2018	<0.0050	<0.0050	<0.50	6.69	6.92	0.0447	<0.00010	0.000190	0.00757
L2227101-5	BI-09	Surface		1/29/2019	<0.0050	<0.0050	<0.50	6.06	5.70	0.0495	<0.00010	0.000200	0.00895
L2233329-6	BI-09	Surface	Dup	2/13/2019	<0.0050	<0.0050	<0.50	5.21	6.15	0.0391	<0.00010	0.000180	0.00817
L2233329-4	BI-09	Surface		2/13/2019	<0.0050	<0.0050	<0.50	5.53	5.75	0.0374	<0.00010	0.000160	0.00841
L2245144-5	BI-09	Surface		3/14/2019	<0.0050	<0.0050	<0.50	5.02	5.22	0.0527	<0.00010	0.000240	0.00892
L2256054-5	BI-09	Surface		4/9/2019	<0.0050	<0.0050	<0.50	16.2	16.6	0.311	<0.00010	0.000250	0.0115
L2282191-3	BI-09	Surface		5/28/2019	<0.0050	<0.0050	0.380	12.2	12.6	0.133	<0.00010	0.000180	0.00636
L2285579-1	BI-09	Surface		6/3/2019	<0.0050	<0.0050	0.330	10.4	10.7	0.130	<0.00010	0.000230	0.00768
L2313851-5	BI-09	Surface	Dup	7/18/2019	<0.0050	<0.0050	0.450	11.5	12.1	0.284	<0.00010	0.000300	0.00938
L2313851-1	BI-09	Surface		7/18/2019	<0.0050	<0.0050	0.460	11.4	12.0	0.579	<0.00010	0.000300	0.0102
L2329543-3	BI-09	Surface		8/13/2019	<0.0050	<0.0050	0.530	13.0	12.4	0.163	<0.00010	0.000290	0.0102
L2350223-4	BI-09	Surface		9/17/2019	<0.0050	<0.0050	<0.50	9.24	8.57	0.0726	<0.00010	0.000230	0.00884
L2371052-5	BI-09	Surface		10/22/2019	<0.0050	<0.0050	<0.50	11.2	12.0	0.197	<0.00010	0.000210	0.00761
L2378996-1	BI-09	Surface		11/5/2019	<0.0050	<0.0050	<0.50	11.0	10.9	0.160	<0.00010	0.000220	0.00791
VA19A0726-005	BI-09	Surface		12/16/2019	<0.0050	<0.0050	<0.50	9.41	9.05	0.129	<0.00010	0.000210	0.00816
VA20A2126-001	BI-09	Surface		2/19/2020	<0.0050	<0.0050	<0.50	6.89	6.65	0.0765	<0.00010	0.000220	0.00924
VA20A7202-005	BI-09	Surface	Dup	5/26/2020	<0.0050	<0.0050	<0.50	10.0	9.86	0.170	<0.00010	0.000430	0.00418
VA20A7202-002	BI-09	Surface		5/26/2020	<0.0050	<0.0050	<0.50	11.5	11.7	0.140	<0.00010	0.000190	0.00550
VA20B2212-001	BI-09	Surface		8/6/2020	<0.0050	<0.0050	<0.50	10.5	11.2	0.277	<0.00010	0.000390	0.0118
VA20C0197-002	BI-09	Surface		11/4/2020	<0.0050	<0.0050	<0.50	18.0	16.9	0.336	<0.00010	0.000250	0.00981
L1989016-2	BI-12	Surface		9/7/2017	<0.0050	<0.0050	<0.50	6.19	6.34	0.0372	<0.00010	0.000420	0.00833
L1762266-1	BI-13	Surface		4/27/2016	<0.0050	<0.0050	-	7.83	7.93	0.115	<0.00010	0.000370	0.00232
L1764648-4	BI-13	Surface		5/3/2016	<0.0050	<0.0050	-	7.70	7.53	0.127	<0.00010	0.000370	0.00214
L1767107-1	BI-13	Surface		5/9/2016	<0.0050	<0.0050	-	5.93	5.86	0.0844	<0.00010	0.000410	0.00221
L1770672-2	BI-13	Surface		5/16/2016	<0.0050	<0.0050	-	5.13	4.85	0.0651	<0.00010	0.000460	0.00237
L1774541-4	BI-13	Surface	Dup	5/25/2016	<0.0050	<0.0050	-	4.52	4.53	0.0671	<0.00010	0.000510	0.00268
L1774541-6	BI-13	Surface		5/25/2016	<0.0050	<0.0050	-	4.77	4.56	0.0671	<0.00010	0.000470	0.00258
L1788643-4	BI-13	Surface		6/22/2016	<0.0050	<0.0050	-	5.64	5.77	0.0833	<0.00010	0.000420	0.00214
L1808945-4	BI-13	Surface		8/3/2016	<0.0050	<0.0050	-	3.81	3.65	0.0373	<0.00010	0.000550	0.00372
L1812856-4	BI-13	Surface	Dup	8/10/2016	<0.0050	<0.0050	-	4.91	4.90	0.0461	<0.00010	0.000580	0.00383
L1812856-6	BI-13	Surface		8/10/2016	<0.0050	<0.0050	-	4.83	4.78	0.0412	<0.00010	0.000550	0.00366

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Cyanides			Organic / Inorganic Carbon		Total Metals			
					Cyanide, Total	Cyanide, Weak Acid Diss	Thiocyanate	Dissolved Organic	Total Organic	Aluminum (Al)-Total	Antimony (Sb)-Total	Arsenic (As)-Total	Barium (Ba)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1815654-4	BI-13	Surface		8/16/2016	<0.0050	<0.0050	-	3.21	3.14	0.0325	<0.00010	0.000610	0.00393
L1819041-7	BI-13	Surface		8/23/2016	<0.0050	<0.0050	-	6.29	5.95	0.0680	<0.00010	0.000560	0.00324
L1823224-7	BI-13	Surface		8/31/2016	<0.0050	<0.0050	-	4.86	4.88	0.0424	<0.00010	0.000570	0.00350
L1826303-1	BI-13	Surface		9/7/2016	<0.0050	<0.0050	-	5.68	5.57	0.0677	<0.00010	0.000460	0.00260
L1988832-6	BI-13	Surface		9/9/2017	<0.0050	<0.0050	<0.50	1.71	1.77	0.0157	<0.00010	0.000810	0.00503
	WQ1	Surface		5/17/2011	0.0175	<0.0050	-	22.0	21.2	0.346	< 0.00005	0.000700	0.00707
	WQ1	Surface		5/24/2011	0.0163	<0.0050	-	21.4	19.5	0.364	< 0.00005	0.000400	0.00527
	WQ1	Surface		5/30/2011	0.0119	<0.0050	-	14.7	27.4	0.391	< 0.00005	0.000500	0.00486
	WQ1	Surface	Dup	6/6/2011	0.0119	<0.0050	-	11.8	12.5	0.304	< 0.00005	0.000400	0.00311
	WQ1	Surface		6/6/2011	0.00960	<0.0050	-	10.7	11.9	0.302	< 0.00005	0.000400	0.00319
	WQ1	Surface		6/13/2011	<0.0050	<0.0050	-	9.70	9.70	0.234	< 0.00005	0.000400	0.00240
	WQ1	Surface		7/18/2011	<0.0050	<0.0050	0.620	9.40	9.40	0.232	< 0.00005	0.000400	0.00293
	WQ1	Surface		8/15/2011	<0.0050	<0.0050	-	6.70	6.70	0.177	< 0.00005	0.000600	0.00287
	WQ1	Surface		9/19/2011	<0.0050	<0.0050	-	5.10	5.10	0.0980	< 0.00005	0.000500	0.00229
	WQ1	Surface		10/17/2011	<0.0050	<0.0050	-	5.50	5.50	0.175	< 0.00005	0.000400	0.00279
	WQ1	Surface		11/14/2011	<0.0050	<0.0050	-	5.20	5.20	0.266	0.0000500	0.000600	0.00397
	WQ1	Surface		5/15/2012	<0.0050	<0.0050	-	19.3	22.1	0.612	0.0000900	0.000700	0.00823
	WQ1	Surface		5/23/2012	-	-	-	16.0	16.0	0.458	0.0000800	0.000500	0.00542
	WQ1	Surface		5/28/2012	<0.0050	<0.0050	-	13.6	14.0	0.328	< 0.00005	0.000400	0.00384
	WQ1	Surface		6/4/2012	<0.0050	<0.0050	-	10.9	11.1	0.340	0.0000600	0.000500	0.00391
	WQ1	Surface		6/11/2012	<0.0050	<0.0050	-	8.80	9.20	0.421	< 0.00005	0.000300	0.00383
	WQ1	Surface		6/18/2012	<0.0050	<0.0050	-	8.50	9.00	0.310	< 0.00005	0.000400	0.00298
	WQ1	Surface		7/16/2012	<0.0050	<0.0050	-	6.60	7.00	0.286	0.0000500	0.000500	0.00319
	WQ1	Surface		8/13/2012	<0.0050	<0.0050	-	12.9	12.9	0.708	0.000130	0.00160	0.00876
	WQ1	Surface		9/17/2012	<0.0050	<0.0050	-	9.50	10.9	0.131	0.0000900	0.000800	0.00305
	WQ1	Surface		10/16/2012	<0.0050	<0.0050	<0.5	10.6	10.6	0.166	< 0.00005	0.000800	0.00373
	WQ1	Surface		11/12/2012	<0.0050	<0.0050	-	6.10	6.10	0.120	0.000130	0.000500	0.00323
	WQ1	Surface		12/10/2012	<0.0050	<0.0050	-	4.90	4.90	0.121	< 0.00005	0.000600	0.00304
	WQ1	Surface		5/14/2013	<0.0050	<0.0050	-	6.00	12.3	0.390	< 0.00005	0.000400	0.00374
	WQ1	Surface	Dup	5/21/2013	<0.0050	<0.0050	-	10.4	10.4	0.311	< 0.00005	0.000400	0.00293
	WQ1	Surface		5/21/2013	<0.0050	<0.0050	-	10.4	10.4	0.313	< 0.00005	0.000400	0.00317
	WQ1	Surface		5/28/2013	<0.0050	<0.0050	-	11.2	11.5	0.364	< 0.00005	0.000300	0.00298
	WQ1	Surface		6/4/2013	<0.0050	<0.0050	-	9.60	9.60	0.263	0.000380	0.000300	0.00268
	WQ1	Surface		6/11/2013	<0.0050	<0.0050	-	8.00	8.10	0.213	< 0.00005	< 0.0001	0.00225
	WQ1	Surface		6/18/2013	<0.0050	<0.0050	-	9.20	9.20	0.206	0.0000500	0.000200	0.00266
VA20A2211-005	WQ1	Surface	Dup	2/20/2020	<0.0050	<0.0050	<0.50	5.00	5.05	0.118	<0.00010	0.000590	0.00320
VA20A2211-001	WQ1	Surface		2/20/2020	<0.0050	<0.0050	<0.50	5.02	5.27	0.118	<0.00010	0.000610	0.00325
VA20A6810-001	WQ1	Surface		5/19/2020	<0.0050	<0.0050	0.500	12.9	13.7	0.290	<0.00010	0.000460	0.00320
VA20B2212-002	WQ1	Surface		8/6/2020	<0.0050	<0.0050	<0.50	8.85	9.65	0.207	<0.00010	0.000810	0.00375
VA20C1415-001	WQ1	Surface		11/19/2020	<0.0050	<0.0050	0.800	7.91	7.84	0.164	<0.00010	0.000470	0.00242
	WQ10	Surface		3/30/2011	-	-	-	1.50	2.00	0.0149	< 0.00005	0.000300	0.00725
	WQ10	Surface		4/19/2011	<0.0050	<0.0050	-	1.50	2.10	0.0140	< 0.00005	< 0.0002	0.00755
	WQ10	Surface		5/17/2011	0.0154	<0.0050	-	19.8	18.1	0.738	< 0.00005	0.000900	0.0108
	WQ10	Surface		5/25/2011	0.0201	<0.0050	-	17.4	15.0	0.463	< 0.00005	0.000500	0.00737

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Cyanides			Organic / Inorganic Carbon		Total Metals			
					Cyanide, Total	Cyanide, Weak Acid Diss	Thiocyanate	Dissolved Organic	Total Organic	Aluminum (Al)-Total	Antimony (Sb)-Total	Arsenic (As)-Total	Barium (Ba)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ10	Surface		5/31/2011	-	-	-	13.0	21.8	0.424	< 0.00005	0.000400	0.00673
	WQ10	Surface		6/7/2011	0.00800	<0.0050	-	10.7	11.3	0.334	< 0.00005	0.000400	0.00518
	WQ10	Surface		6/14/2011	<0.0050	<0.0050	-	9.10	9.20	0.216	< 0.00005	0.000400	0.00408
	WQ10	Surface		7/19/2011	<0.0096	<0.0050	-	9.70	10.0	0.214	< 0.00005	0.000500	0.00572
	WQ10	Surface		8/16/2011	<0.0050	<0.0050	-	5.80	5.80	0.165	< 0.00005	0.000400	0.00594
	WQ10	Surface		9/20/2011	<0.0050	<0.0050	-	3.10	3.10	0.176	< 0.00005	0.000500	0.00766
	WQ10	Surface		10/18/2011	<0.0050	<0.0050	-	4.20	4.30	0.0580	< 0.00005	0.000400	0.00569
	WQ10	Surface		11/15/2011	<0.0050	<0.0050	-	3.70	3.70	0.0400	< 0.00005	0.000500	0.00646
	WQ10	Surface		12/12/2011	<0.0050	<0.0050	-	3.30	3.30	0.0290	< 0.00005	0.000400	0.00724
	WQ10	Surface		1/12/2012	-	-	<0.50	2.70	2.70	0.0390	< 0.00005	0.000400	0.00787
	WQ10	Surface		2/13/2012	<0.0050	<0.0050	-	2.10	2.10	0.0100	< 0.00005	0.000500	0.00762
	WQ10	Surface		3/12/2012	<0.0050	<0.0050	-	1.90	1.90	0.00900	< 0.00005	0.000400	0.00771
	WQ10	Surface		4/16/2012	<0.0050	<0.0050	-	3.40	3.40	0.117	< 0.00005	0.000600	0.00823
	WQ10	Surface		5/14/2012	<0.0050	<0.0050	-	13.4	13.4	0.315	< 0.00005	0.000500	0.00732
	WQ10	Surface		5/22/2012	<0.0050	<0.0050	-	12.9	12.9	0.335	< 0.00005	0.000400	0.00640
	WQ10	Surface		5/29/2012	<0.0050	<0.0050	-	12.1	12.1	0.247	0.0000500	0.000400	0.00517
	WQ10	Surface		6/5/2012	<0.0050	<0.0050	-	10.3	10.3	0.208	< 0.00005	0.000400	0.00503
	WQ10	Surface		6/12/2012	<0.0050	<0.0050	-	8.40	8.50	0.291	< 0.00005	0.000300	0.00592
	WQ10	Surface		6/19/2012	<0.0050	<0.0050	-	7.70	7.90	0.205	< 0.00005	0.000400	0.00537
	WQ10	Surface		7/17/2012	<0.0050	<0.0050	-	5.60	5.60	0.0740	< 0.00005	0.000400	0.00592
	WQ10	Surface		8/14/2012	<0.0050	<0.0050	-	6.20	6.20	0.0780	< 0.00005	0.000600	0.00731
	WQ10	Surface		9/18/2012	<0.0050	<0.0050	-	11.1	11.4	0.0290	< 0.00005	0.000500	0.00786
	WQ10	Surface		10/15/2012	<0.0050	<0.0050	-	11.1	11.1	0.0220	< 0.00005	0.000500	0.00767
	WQ10	Surface		11/13/2012	<0.0050	<0.0050	-	3.40	3.40	0.0310	< 0.00005	0.000400	0.00727
	WQ10	Surface		1/13/2013	-	-	-	2.30	2.30	0.0120	< 0.00005	0.000500	0.00779
	WQ10	Surface		2/12/2013	<0.0050	<0.0050	-	2.30	2.30	0.0110	< 0.00005	0.000400	0.00704
	WQ10	Surface		3/11/2013	<0.0050	<0.0050	-	1.80	1.90	0.0150	< 0.00005	0.000500	0.00764
	WQ10	Surface		4/15/2013	<0.0050	<0.0050	<0.5	4.10	4.10	0.0550	< 0.00005	0.00160	0.0124
	WQ10	Surface		5/13/2013	<0.0050	<0.0050	-	12.6	12.8	0.332	< 0.00005	0.000400	0.00556
	WQ10	Surface		5/22/2013	<0.0050	<0.0050	-	11.1	11.1	0.246	< 0.00005	0.000400	0.00489
	WQ10	Surface		5/27/2013	<0.0050	<0.0050	-	12.0	12.0	0.297	< 0.00005	0.000400	0.00460
	WQ10	Surface		6/6/2013	<0.0050	<0.0050	-	10.6	10.6	0.219	< 0.00005	0.000400	0.00484
	WQ10	Surface		6/10/2013	-	-	-	8.10	8.10	0.151	< 0.00005	0.000100	0.00463
	WQ10	Surface		6/17/2013	<0.0050	<0.0050	-	8.90	8.90	0.153	0.0000700	0.000300	0.00482
	WQ10	Surface		4/13/2014	<0.0050	<0.0050	-	2.60	2.60	0.0170	< 0.00005	0.000300	0.00670
	WQ10	Surface		7/2/2014	<0.0050	<0.0050	-	5.90	5.90	0.0740	< 0.00005	0.000500	0.00633
	WQ10	Surface	Dup	9/24/2014	<0.0050	<0.0050	-	2.30	2.30	0.0120	< 0.00005	0.000600	0.00951
	WQ10	Surface		9/24/2014	<0.0050	<0.0050	-	2.20	2.30	0.0150	< 0.00005	0.000600	0.00971
	WQ10	Surface		12/8/2014	<0.0050	<0.0050	-	1.70	1.70	0.0110	< 0.00005	0.000600	0.00740
L1913006-3	WQ10	Surface		4/11/2017	<0.0050	<0.0050	<0.5	2.65	2.57	0.0216	< 0.00010	0.000580	0.00745
L1925486-1	WQ10	Surface		5/10/2017	<0.0050	<0.0050	<0.50	15.4	15.5	0.286	< 0.00010	0.000520	0.00696
L1939712-10	WQ10	Surface		6/7/2017	<0.0050	<0.0050	<0.50	10.5	10.6	0.181	< 0.00010	0.000520	0.00470
L1961670-2	WQ10	Surface		7/18/2017	<0.0050	<0.0050	<0.50	4.29	4.24	0.0385	< 0.00010	0.000650	0.00615
L1984944-10	WQ10	Surface	Dup	8/30/2017	<0.0050	<0.0050	<0.50	2.31	2.54	0.0190	< 0.00010	0.000720	0.00970

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Cyanides			Organic / Inorganic Carbon		Total Metals			
					Cyanide, Total	Cyanide, Weak Acid Diss	Thiocyanate	Dissolved Organic	Total Organic	Aluminum (Al)-Total	Antimony (Sb)-Total	Arsenic (As)-Total	Barium (Ba)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1984944-1	WQ10	Surface		8/30/2017	<0.0050	<0.0050	<0.50	2.52	2.36	0.0180	<0.00010	0.000760	0.0100
L1988832-1	WQ10	Surface		9/8/2017	<0.0050	<0.0050	<0.50	2.99	3.01	0.0223	<0.00010	0.000800	0.00931
L2011329-2	WQ10	Surface		10/19/2017	<0.0050	<0.0050	<0.50	10.0	10.0	0.141	<0.00010	0.000730	0.00594
L2020946-1	WQ10	Surface		11/8/2017	<0.0050	<0.0050	<0.50	6.13	6.36	0.120	<0.00010	0.000570	0.00506
L2035356-4	WQ10	Surface		12/12/2017	<0.0050	<0.0050	<0.50	4.77	4.86	0.0998	<0.00010	0.000540	0.00564
L2049678-2	WQ10	Surface		1/24/2018	<0.0050	<0.0050	<0.50	3.07	3.27	0.0322	<0.00010	0.000620	0.00635
L2057025-2	WQ10	Surface		2/13/2018	<0.0050	<0.0050	<0.50	2.96	2.97	0.0281	<0.00010	0.000610	0.00676
L2074294-8	WQ10	Surface	Dup	3/28/2018	<0.0050	<0.0050	<0.50	2.36	2.42	0.0159	<0.00010	<0.00070	0.00660
L2074294-3	WQ10	Surface		3/28/2018	<0.0050	<0.0050	<0.50	2.31	2.53	0.0197	<0.00010	<0.00080	0.00649
L2081503-4	WQ10	Surface		4/17/2018	<0.0050	<0.0050	<0.50	2.65	2.66	0.0188	<0.00010	0.000570	0.00691
L2097084-3	WQ10	Surface		5/16/2018	<0.0050	<0.0050	<0.50	12.2	11.4	0.433	<0.00010	0.000530	0.00675
L2103632-3	WQ10	Surface		5/29/2018	<0.0050	<0.0050	0.730	8.97	8.86	0.147	<0.00010	0.000490	0.00414
L2132986-2	WQ10	Surface		7/18/2018	<0.0050	<0.0050	<0.50	4.52	4.36	0.0427	<0.00010	0.000720	0.00713
L2143640-6	WQ10	Surface		8/7/2018	<0.0050	<0.0050	<0.50	4.78	4.93	0.0439	<0.00010	0.000830	0.00737
L2163669-2	WQ10	Surface		9/11/2018	<0.0050	<0.0050	<0.50	2.91	3.01	0.0230	<0.00010	0.000740	0.00774
L2188218-1	WQ10	Surface		10/26/2018	<0.0050	<0.0050	<0.50	4.31	4.44	0.0436	<0.00010	0.000570	0.00606
L2204508-3	WQ10	Surface		11/29/2018	<0.0050	<0.0050	<0.50	6.40	6.77	0.0814	<0.00010	0.000560	0.00575
L2213246-1	WQ10	Surface		12/18/2018	<0.0050	<0.0050	<0.50	3.91	4.00	0.0597	<0.00010	0.000590	0.00593
L2227701-1	WQ10	Surface		1/30/2019	<0.0050	<0.0050	<0.50	2.94	3.11	0.0290	<0.00010	0.000540	0.00676
L2232050-6	WQ10	Surface		2/11/2019	<0.0050	<0.0050	<0.50	2.44	2.56	0.0262	<0.00010	0.000540	0.00708
L2244756-1	WQ10	Surface		3/13/2019	<0.0050	<0.0050	<0.50	1.65	1.79	0.0142	<0.00010	0.000570	0.00765
L2256053-5	WQ10	Surface	Dup	4/8/2019	<0.0050	<0.0050	<0.50	5.14	4.91	0.0641	<0.00010	0.000580	0.00691
L2256053-1	WQ10	Surface		4/8/2019	<0.0050	<0.0050	<0.50	5.05	4.98	0.0617	<0.00010	0.000630	0.00673
L2273497-1	WQ10	Surface		5/13/2019	<0.0050	<0.0050	0.380	14.5	14.9	0.253	<0.00010	0.000510	0.00538
L2285579-6	WQ10	Surface		6/3/2019	<0.0050	<0.0050	0.280	9.14	8.83	0.152	<0.00010	0.000520	0.00468
L2312637-1	WQ10	Surface		7/16/2019	<0.0050	<0.0050	0.410	9.71	8.83	0.143	<0.00010	0.000580	0.00578
L2326388-1	WQ10	Surface		8/8/2019	<0.0050	<0.0050	<0.50	8.87	8.94	0.133	<0.00010	0.000630	0.00620
L2350223-1	WQ10	Surface		9/17/2019	<0.0050	<0.0050	<0.50	5.99	5.84	0.0582	<0.00010	0.000620	0.00613
L2372667-1	WQ10	Surface		10/23/2019	<0.0050	<0.0050	<0.50	6.97	7.78	0.117	<0.00010	0.000560	0.00534
L2383392-1	WQ10	Surface		11/14/2019	<0.0050	<0.0050	<0.50	7.60	7.28	0.149	<0.00010	0.000500	0.00518
VA19A0726-004	WQ10	Surface		12/16/2019	<0.0050	<0.0050	<0.50	5.85	5.54	0.0888	<0.00010	0.000480	0.00538
VA20A0812-001	WQ10	Surface		1/23/2020	<0.0050	<0.0050	<0.50	4.22	3.94	0.0445	<0.00010	0.000460	0.00625
VA20A1887-001	WQ10	Surface		2/13/2020	<0.0050	<0.0050	<0.50	3.10	3.26	0.0329	<0.00010	0.000490	0.00610
VA20A3516-001	WQ10	Surface		3/16/2020	<0.0050	<0.0050	<0.50	2.64	2.74	0.0284	<0.00010	0.000600	0.00655
VA20A4369-001	WQ10	Surface		4/1/2020	<0.0050	<0.0050	<0.50	2.46	2.57	0.0287	<0.00010	0.000550	0.00738
VA20A6218-001	WQ10	Surface		5/7/2020	<0.0050	<0.0050	<0.50	12.2	12.2	0.234	<0.00010	0.000400	0.00580
VA20A6356-002	WQ10	Surface		5/11/2020	<0.0050	<0.0050	<0.50	13.8	14.2	0.293	<0.00010	0.000420	0.00592
VA20A6810-003	WQ10	Surface		5/19/2020	<0.0050	<0.0050	<0.50	12.5	13.4	0.247	<0.00010	0.000420	0.00488
VA20A7202-003	WQ10	Surface		5/26/2020	<0.0050	<0.0050	<0.50	10.1	10.3	0.148	<0.00010	0.000420	0.00328
VA20A7672-002	WQ10	Surface		6/2/2020	<0.0050	<0.0050	<0.50	8.43	8.88	0.149	<0.00010	0.000440	0.00414
VA20A9918-003	WQ10	Surface		7/6/2020	<0.0050	<0.0050	<0.50	9.14	9.07	0.126	<0.00010	0.000510	0.00478
VA20B2156-008	WQ10	Surface	Dup	8/5/2020	<0.0050	<0.0050	<0.50	4.90	4.68	0.0482	<0.00010	0.000720	0.00629
VA20B2156-001	WQ10	Surface		8/5/2020	<0.0050	<0.0050	<0.50	4.81	4.73	0.0615	<0.00010	0.000720	0.00644
VA20B2426-004	WQ10	Surface		8/10/2020	<0.0050	<0.0050	<0.50	5.92	5.67	0.0711	<0.00010	0.000660	0.00605

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LabID	Site	Depth	QAQC	Date	Cyanides			Organic / Inorganic Carbon		Total Metals			
					Cyanide, Total	Cyanide, Weak Acid Diss	Thiocyanate	Dissolved Organic	Total Organic	Aluminum (Al)-Total	Antimony (Sb)-Total	Arsenic (As)-Total	Barium (Ba)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
VA20B3264-002	WQ10	Surface		8/19/2020	<0.0050	<0.0050	<0.50	5.50	5.56	0.0595	<0.00010	0.000760	0.00669
VA20B3609-001	WQ10	Surface		8/24/2020	<0.0050	<0.0050	<0.50	6.12	6.66	0.0687	<0.00010	0.000670	0.00628
VA20B4313-001	WQ10	Surface		9/1/2020	<0.0050	<0.0050	<0.50	5.55	5.77	0.0536	<0.00010	0.000680	0.00607
VA20B7624-004	WQ10	Surface		10/6/2020	<0.0050	<0.0050	<0.50	4.61	4.70	0.0407	<0.00010	0.000720	0.00659
VA20C0197-003	WQ10	Surface		11/4/2020	<0.0050	<0.0050	<0.50	15.2	14.6	0.319	<0.00010	0.000540	0.00622
	WQ11	Surface		3/30/2011	-	-	-	3.80	4.20	0.0942	< 0.00005	< 0.0002	0.0114
	WQ11	Surface		4/19/2011	0.00500	<0.0050	-	4.30	4.90	0.0980	< 0.00005	< 0.0002	0.00917
	WQ11	Surface		5/17/2011	0.0190	<0.0050	-	29.6	27.8	0.840	< 0.00005	0.000200	0.0100
	WQ11	Surface		5/25/2011	0.0260	<0.0050	-	25.2	23.6	0.713	< 0.00005	0.000100	0.00812
	WQ11	Surface		5/31/2011	-	-	-	20.6	30.8	0.611	< 0.00005	0.000100	0.00716
	WQ11	Surface		6/6/2011	0.0138	<0.0050	-	18.0	19.4	0.833	< 0.00005	0.000200	0.00858
	WQ11	Surface		6/13/2011	<0.0050	<0.0050	-	16.3	16.7	0.426	< 0.00005	0.000200	0.00570
	WQ11	Surface		7/18/2011	<0.0066	<0.0050	1.22	19.2	19.2	0.533	< 0.00005	0.000200	0.00762
	WQ11	Surface		8/15/2011	<0.0050	<0.0050	-	12.5	12.5	0.548	< 0.00005	0.000200	0.00765
	WQ11	Surface		9/19/2011	<0.0050	<0.0050	-	6.50	6.60	0.0690	< 0.00005	< 0.0001	0.0105
	WQ11	Surface		10/17/2011	<0.0050	<0.0050	-	9.50	9.50	0.208	< 0.00005	< 0.0001	0.00752
	WQ11	Surface		11/14/2011	<0.0050	<0.0050	-	8.20	8.20	0.140	< 0.00005	0.000100	0.00820
	WQ11	Surface		12/12/2011	<0.0050	<0.0050	-	6.50	6.80	0.130	< 0.00005	< 0.0001	0.0103
	WQ11	Surface		5/15/2012	-	-	-	20.7	20.7	0.418	< 0.00005	0.000100	0.00713
	WQ11	Surface		5/22/2012	<0.0050	<0.0050	-	19.5	19.6	0.544	< 0.00005	0.000100	0.00681
	WQ11	Surface		5/28/2012	<0.0050	<0.0050	-	18.4	18.4	0.434	< 0.00005	0.000100	0.00573
	WQ11	Surface		6/4/2012	<0.0050	<0.0050	-	16.9	16.9	0.334	< 0.00005	0.000100	0.00547
	WQ11	Surface		6/11/2012	<0.0050	<0.0050	-	14.9	14.9	0.346	< 0.00005	< 0.0001	0.00578
	WQ11	Surface		6/18/2012	<0.0050	<0.0050	-	14.1	14.6	0.355	< 0.00005	0.000100	0.00612
	WQ11	Surface		7/16/2012	<0.0050	<0.0050	-	10.9	11.9	0.185	0.0000800	< 0.0001	0.00788
	WQ11	Surface		8/13/2012	<0.0050	<0.0050	-	13.6	13.6	0.207	< 0.00005	0.000100	0.00824
	WQ11	Surface		9/17/2012	<0.0050	<0.0050	-	15.4	15.4	0.0740	< 0.00005	< 0.0001	0.00987
	WQ11	Surface		10/15/2012	<0.0050	<0.0050	-	16.8	16.8	0.0420	< 0.00005	< 0.0001	0.0118
	WQ11	Surface		11/13/2012	<0.0050	<0.0050	-	6.60	6.60	0.0900	< 0.00005	< 0.0001	0.00993
	WQ11	Surface		1/13/2013	-	-	-	4.30	4.30	0.0300	< 0.00005	< 0.0001	0.0129
	WQ11	Surface		2/12/2013	<0.0050	<0.0050	-	3.90	3.90	0.0510	< 0.00005	< 0.0001	0.0124
	WQ11	Surface		4/15/2013	<0.0050	<0.0050	<0.5	13.4	13.5	0.503	< 0.00005	0.00220	0.0172
	WQ11	Surface		5/13/2013	<0.0050	<0.0050	-	19.3	19.3	0.480	< 0.00005	0.000100	0.00579
	WQ11	Surface		5/22/2013	<0.0050	<0.0050	-	19.6	19.6	0.446	< 0.00005	0.000200	0.00615
	WQ11	Surface		5/27/2013	<0.0050	<0.0050	-	20.1	20.1	0.505	< 0.00005	0.000200	0.00603
	WQ11	Surface		6/6/2013	<0.0050	<0.0050	-	18.8	18.8	0.467	< 0.00005	0.000100	0.00618
	WQ11	Surface		6/10/2013	-	-	-	15.8	16.1	0.388	< 0.00005	< 0.0001	0.00669
	WQ11	Surface		6/17/2013	<0.0050	<0.0050	-	16.6	16.8	0.396	< 0.00005	< 0.0001	0.00640
L1762266-2	WQ11	Surface		4/27/2016	<0.0050	<0.0050	-	24.2	24.3	0.486	<0.00010	0.000230	0.00683
L1764648-1	WQ11	Surface		5/3/2016	<0.0050	<0.0050	-	20.3	20.6	0.391	<0.00010	0.000200	0.00610
L1767107-6	WQ11	Surface	Dup	5/9/2016	<0.0050	<0.0050	-	16.4	16.1	0.359	<0.00010	0.000200	0.00621
L1767107-2	WQ11	Surface		5/9/2016	<0.0050	<0.0050	-	16.7	15.3	0.360	<0.00010	0.000220	0.00616
L1770672-5	WQ11	Surface	Dup	5/16/2016	<0.0050	<0.0050	-	16.0	16.3	0.251	<0.00010	0.000190	0.00630
L1770672-1	WQ11	Surface		5/16/2016	<0.0050	<0.0050	-	16.4	15.8	0.263	<0.00010	0.000200	0.00686

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Cyanides			Organic / Inorganic Carbon		Total Metals			
					Cyanide, Total	Cyanide, Weak Acid Diss	Thiocyanate	Dissolved Organic	Total Organic	Aluminum (Al)-Total	Antimony (Sb)-Total	Arsenic (As)-Total	Barium (Ba)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1774541-1	WQ11	Surface		5/25/2016	<0.0050	<0.0050	-	12.8	12.4	0.202	<0.00010	0.000210	0.00731
L1788643-1	WQ11	Surface		6/22/2016	<0.0050	<0.0050	-	18.4	17.8	0.415	<0.00010	0.000230	0.00624
L1808945-1	WQ11	Surface		8/3/2016	<0.0050	<0.0050	-	14.8	14.9	0.257	<0.00010	0.000200	0.00844
L1812856-1	WQ11	Surface		8/10/2016	<0.0050	<0.0050	-	16.2	16.0	0.215	<0.00010	0.000220	0.00798
L1815654-1	WQ11	Surface		8/16/2016	<0.0050	<0.0050	-	11.5	11.2	0.143	<0.00010	0.000170	0.00847
L1819041-6	WQ11	Surface		8/23/2016	<0.0050	<0.0050	-	13.1	12.8	0.191	<0.00010	0.000220	0.00860
L1823224-4	WQ11	Surface		8/31/2016	<0.0050	<0.0050	-	12.7	12.5	0.152	<0.00010	0.000200	0.00851
L1826303-3	WQ11	Surface		9/7/2016	<0.0050	<0.0050	-	14.0	13.8	0.180	<0.00010	0.000200	0.00715
	WQ12	Surface		4/19/2011	<0.0050	<0.0050	-	4.40	5.30	0.0400	< 0.00005	< 0.0002	0.00612
	WQ12	Surface		5/17/2011	0.0115	<0.0050	-	18.7	11.3	0.576	< 0.00005	0.000300	0.0104
	WQ12	Surface		5/24/2011	0.0158	<0.0050	-	16.3	13.4	0.273	< 0.00005	0.000100	0.00636
	WQ12	Surface		5/30/2011	-	-	-	12.2	19.7	0.229	< 0.00005	0.000200	0.00578
	WQ12	Surface		6/6/2011	0.00890	<0.0050	-	9.00	9.70	0.155	< 0.00005	0.000200	0.00479
	WQ12	Surface		6/13/2011	<0.0050	<0.0050	-	8.80	9.00	0.128	< 0.00005	0.000300	0.00509
	WQ12	Surface		7/18/2011	<0.0076	<0.0050	0.650	10.0	10.4	0.166	< 0.00005	0.000200	0.00674
	WQ12	Surface		8/15/2011	<0.0050	<0.0050	-	7.30	7.30	0.146	< 0.00005	0.000200	0.00586
	WQ12	Surface		9/19/2011	<0.0050	<0.0050	-	6.60	6.60	0.0640	< 0.00005	0.000200	0.00697
	WQ12	Surface		10/17/2011	<0.0050	<0.0050	-	6.50	6.50	0.0850	< 0.00005	0.000100	0.00563
	WQ12	Surface		11/14/2011	<0.0050	<0.0050	-	6.50	6.50	0.0730	< 0.00005	0.000200	0.00553
	WQ12	Surface		12/12/2011	<0.0050	<0.0050	-	6.30	6.50	0.112	< 0.00005	0.000200	0.00717
	WQ12	Surface		1/12/2012	-	-	<0.50	6.10	6.10	0.0720	< 0.00005	0.000200	0.00604
	WQ12	Surface		2/13/2012	<0.0050	<0.0050	-	5.40	5.40	0.0690	< 0.00005	0.000200	0.00661
	WQ12	Surface	Dup	3/12/2012	<0.0050	<0.0050	-	5.50	5.50	0.0570	< 0.00005	0.000200	0.00649
	WQ12	Surface		3/12/2012	<0.0050	<0.0050	-	5.40	5.70	0.141	< 0.00005	0.000300	0.00864
	WQ12	Surface		4/16/2012	<0.0050	<0.0050	-	9.30	9.30	0.413	< 0.00005	0.000500	0.0107
	WQ12	Surface		5/15/2012	<0.0050	<0.0050	-	11.8	11.9	0.252	< 0.00005	0.000200	0.00738
	WQ12	Surface		5/22/2012	<0.0050	<0.0050	-	10.4	10.4	0.202	< 0.00005	0.000100	0.00580
	WQ12	Surface		5/28/2012	<0.0050	<0.0050	-	10.2	10.2	0.146	< 0.00005	0.000100	0.00551
	WQ12	Surface		6/4/2012	<0.0050	<0.0050	-	8.90	8.90	0.101	0.0000500	0.000200	0.00551
	WQ12	Surface		6/11/2012	<0.0050	<0.0050	-	8.60	8.60	0.107	< 0.00005	0.000100	0.00528
	WQ12	Surface		6/18/2012	<0.0050	<0.0050	-	8.10	8.20	0.110	< 0.00005	0.000200	0.00572
	WQ12	Surface		7/16/2012	<0.0050	<0.0050	-	6.60	6.90	0.0650	< 0.00005	0.000300	0.00621
	WQ12	Surface		8/13/2012	<0.0050	<0.0050	-	7.00	7.00	0.0690	< 0.00005	0.000300	0.00772
	WQ12	Surface		9/17/2012	<0.0050	<0.0050	-	11.6	14.0	0.0610	< 0.00005	0.000200	0.00827
	WQ12	Surface		10/15/2012	<0.0050	<0.0050	-	9.10	9.50	0.0480	< 0.00005	0.000200	0.00894
	WQ12	Surface		11/13/2012	<0.0050	<0.0050	-	6.10	6.10	0.0430	< 0.00005	0.000100	0.00630
	WQ12	Surface		1/13/2013	-	-	-	5.80	5.80	0.0480	< 0.00005	0.000200	0.00640
	WQ12	Surface		2/12/2013	<0.0050	<0.0050	<0.5	4.80	4.80	0.0280	< 0.00005	0.000100	0.00556
	WQ12	Surface		3/11/2013	<0.0050	<0.0050	-	4.50	4.50	0.0760	< 0.00005	0.000200	0.00556
	WQ12	Surface		4/15/2013	<0.0050	<0.0050	<0.5	8.30	8.40	0.136	< 0.00005	0.00120	0.0114
	WQ12	Surface		5/13/2013	<0.0050	<0.0050	-	10.5	10.5	0.143	< 0.00005	0.000200	0.00527
	WQ12	Surface		5/22/2013	<0.0050	<0.0050	-	10.1	10.2	0.134	< 0.00005	0.000200	0.00522
	WQ12	Surface		5/27/2013	<0.0050	<0.0050	-	10.8	10.8	0.152	< 0.00005	0.000200	0.00509
	WQ12	Surface		6/6/2013	<0.0050	<0.0050	-	10.3	10.3	0.124	< 0.00005	0.000100	0.00525

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LabID	Site	Depth	QAQC	Date	Cyanides			Organic / Inorganic Carbon		Total Metals			
					Cyanide, Total	Cyanide, Weak Acid Diss	Thiocyanate	Dissolved Organic	Total Organic	Aluminum (Al)-Total	Antimony (Sb)-Total	Arsenic (As)-Total	Barium (Ba)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ12	Surface		6/10/2013	-	-	-	8.70	8.70	0.0990	< 0.00005	< 0.0001	0.00563
	WQ12	Surface		6/17/2013	<0.0050	<0.0050	-	9.70	9.70	0.118	< 0.00005	< 0.0001	0.00587
	WQ13	Surface		4/19/2011	<0.0050	<0.0050	-	5.00	5.70	0.0560	< 0.00005	< 0.0002	0.00926
	WQ13	Surface		5/17/2011	0.0102	<0.0050	-	12.4	14.7	0.165	< 0.00005	0.000500	0.00791
	WQ13	Surface		5/24/2011	0.0141	<0.0050	-	13.9	11.8	0.155	< 0.00005	0.000500	0.00772
	WQ13	Surface		5/30/2011	-	-	-	11.7	42.3	0.136	0.0000500	0.000500	0.00808
	WQ13	Surface		6/6/2011	0.00640	<0.0050	-	10.4	11.1	0.117	< 0.00005	0.000500	0.00691
	WQ13	Surface		6/13/2011	<0.0050	<0.0050	-	10.0	10.0	0.0840	< 0.00005	0.000600	0.00686
	WQ13	Surface		7/18/2011	<0.0050	<0.0050	0.610	10.7	10.9	0.0810	< 0.00005	0.000600	0.00862
	WQ13	Surface		8/15/2011	<0.0050	<0.0050	-	8.90	9.80	0.0440	< 0.00005	0.000600	0.00719
	WQ13	Surface		9/19/2011	<0.0050	<0.0050	-	6.90	7.00	0.0270	< 0.00005	0.000600	0.00876
	WQ13	Surface		10/17/2011	<0.0050	<0.0050	-	6.80	6.80	0.0210	< 0.00005	0.000600	0.00802
	WQ13	Surface		11/14/2011	<0.0050	<0.0050	-	8.50	8.50	0.0490	< 0.00005	0.000600	0.00771
	WQ13	Surface		12/13/2011	<0.0050	<0.0050	-	7.40	7.40	0.0210	< 0.00005	0.000600	0.00795
	WQ13	Surface		1/12/2012	-	-	<0.50	7.60	7.60	0.0610	< 0.00005	0.000600	0.00898
	WQ13	Surface		2/13/2012	<0.0050	<0.0050	-	6.90	6.90	0.0190	< 0.00005	0.000600	0.00750
	WQ13	Surface		3/12/2012	<0.0050	<0.0050	-	6.80	6.80	0.0380	< 0.00005	0.000600	0.00800
	WQ13	Surface		4/16/2012	<0.0050	<0.0050	-	9.50	9.60	0.114	< 0.00005	0.000600	0.0101
	WQ13	Surface		5/15/2012	<0.0050	<0.0050	-	9.50	9.50	0.142	< 0.00005	0.000600	0.00874
	WQ13	Surface		5/22/2012	<0.0050	<0.0050	-	9.50	9.50	0.187	< 0.00005	0.000500	0.00814
	WQ13	Surface		5/28/2012	<0.0050	<0.0050	-	9.40	9.40	0.0850	< 0.00005	0.000500	0.00721
	WQ13	Surface		6/4/2012	<0.0050	<0.0050	-	9.00	9.00	0.0600	0.0000500	0.000500	0.00913
	WQ13	Surface	Dup	6/11/2012	<0.0050	<0.0050	-	8.20	8.40	0.0610	< 0.00005	0.000600	0.00697
	WQ13	Surface		6/11/2012	<0.0050	<0.0050	-	7.70	8.00	0.0320	0.0000600	0.000400	0.0920
	WQ13	Surface		6/18/2012	<0.0050	<0.0050	-	8.40	8.40	0.0630	< 0.00005	0.000500	0.00730
	WQ13	Surface		7/16/2012	<0.0050	<0.0050	-	7.90	8.20	0.0210	< 0.00005	0.000600	0.00714
	WQ13	Surface		8/13/2012	<0.0050	<0.0050	-	8.20	8.50	0.0100	< 0.00005	0.000600	0.00752
	WQ13	Surface		9/17/2012	<0.0050	<0.0050	-	23.9	23.9	0.0310	< 0.00005	0.000500	0.00747
	WQ13	Surface		10/15/2012	<0.0050	<0.0050	-	14.7	15.1	0.0130	< 0.00005	0.000500	0.00842
	WQ13	Surface		11/12/2012	<0.0050	<0.0050	-	6.20	6.60	0.0220	< 0.00005	0.000400	0.00853
	WQ13	Surface		1/15/2013	-	-	-	7.50	7.50	0.106	0.0000600	0.000700	0.0114
	WQ13	Surface		5/14/2013	<0.0050	<0.0050	-	9.30	9.30	0.122	< 0.00005	0.000500	0.00693
	WQ13	Surface		5/22/2013	<0.0050	<0.0050	-	10.5	10.5	0.224	< 0.00005	0.000500	0.00535
	WQ13	Surface		5/28/2013	<0.0050	<0.0050	-	9.50	9.60	0.120	< 0.00005	0.000500	0.00655
	WQ13	Surface		6/4/2013	<0.0050	<0.0050	-	9.10	9.10	0.0500	< 0.00005	0.000500	0.00649
	WQ13	Surface		6/10/2013	-	-	-	8.40	8.50	0.0470	0.0000500	0.000200	0.00676
	WQ13	Surface		6/18/2013	<0.0050	<0.0050	-	9.30	9.30	0.0490	0.0000600	0.000400	0.00695
L1913531-4	WQ13	Surface	Dup	4/12/2017	<0.0050	<0.0050	<0.50	7.45	7.68	0.0607	<0.00010	0.000650	0.00667
L1913531-2	WQ13	Surface		4/12/2017	<0.0050	<0.0050	<0.50	8.01	8.09	0.0594	<0.00010	0.000610	0.00636
L1926080-1	WQ13	Surface		5/11/2017	<0.0050	<0.0050	<0.50	9.83	10.0	0.181	<0.00010	0.000740	0.00836
L1939712-11	WQ13	Surface		6/7/2017	<0.0050	<0.0050	<0.50	9.39	10.0	0.106	<0.00010	0.000650	0.00634
L1964508-2	WQ13	Surface		7/24/2017	<0.0050	<0.0050	<0.50	4.01	7.40	0.00490	0.000120	0.000670	0.00685
L1984944-8	WQ13	Surface		8/30/2017	<0.0050	<0.0050	<0.50	6.99	7.23	0.0198	<0.00010	0.000740	0.00677
L1988832-7	WQ13	Surface		9/9/2017	<0.0050	<0.0050	<0.50	8.55	7.04	0.0144	<0.00010	0.000740	0.00720

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LabID	Site	Depth	QAQC	Date	Cyanides			Organic / Inorganic Carbon		Total Metals			
					Cyanide, Total	Cyanide, Weak Acid Diss	Thiocyanate	Dissolved Organic	Total Organic	Aluminum (Al)-Total	Antimony (Sb)-Total	Arsenic (As)-Total	Barium (Ba)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2009845-1	WQ13	Surface		10/17/2017	<0.0050	<0.0050	<0.50	6.39	6.66	0.0469	<0.00010	0.000660	0.00866
L2020333-1	WQ13	Surface		11/7/2017	<0.0050	<0.0050	<0.50	7.26	7.56	0.0719	<0.00010	0.000650	0.00806
L2034610-4	WQ13	Surface		12/11/2017	<0.0050	<0.0050	<0.50	7.19	7.05	0.0269	<0.00010	0.000620	0.00712
L2049224-3	WQ13	Surface		1/23/2018	<0.0050	<0.0050	<0.50	6.46	6.71	0.0535	<0.00010	0.000660	0.00779
L2060442-3	WQ13	Surface		2/23/2018	<0.0050	<0.0050	0.510	6.52	6.64	0.0297	<0.00010	0.000610	0.00653
L2074294-7	WQ13	Surface		3/28/2018	<0.0050	<0.0050	<0.50	7.37	7.94	0.0791	<0.00010	<0.00080	0.00777
L2081505-5	WQ13	Surface		4/16/2018	<0.0050	<0.0050	<0.50	8.09	8.23	0.0324	<0.00010	0.000610	0.00762
L2097084-4	WQ13	Surface		5/16/2018	<0.0050	<0.0050	<0.50	11.1	10.9	0.133	<0.00010	0.000570	0.00712
L2104479-4	WQ13	Surface		5/30/2018	<0.0050	<0.0050	<0.50	10.2	10.2	0.0577	<0.00010	0.000600	0.00620
L2132986-1	WQ13	Surface		7/18/2018	<0.0050	<0.0050	1.01	8.10	8.59	0.0378	<0.00010	0.000670	0.00746
L2144782-5	WQ13	Surface		8/9/2018	<0.0050	<0.0050	<0.50	7.40	7.96	0.0462	<0.00010	0.000670	0.00739
L2164448-1	WQ13	Surface		9/12/2018	<0.0050	<0.0050	<0.50	6.93	7.35	<0.021	<0.00010	0.000630	0.00874
L2188218-5	WQ13	Surface		10/26/2018	<0.0050	<0.0050	<0.50	9.27	20.1	0.0301	<0.00010	0.000770	0.00811
L2203408-5	WQ13	Surface		11/27/2018	<0.0050	<0.0050	<0.50	7.41	7.46	0.0264	<0.00010	0.000670	0.00684
L2213684-4	WQ13	Surface		12/19/2018	<0.0050	<0.0050	<0.50	6.69	6.80	0.0140	<0.00010	0.000580	0.00618
L2227101-4	WQ13	Surface		1/29/2019	<0.0050	<0.0050	<0.50	7.51	7.19	0.0126	<0.00010	0.000600	0.00647
L2232050-7	WQ13	Surface		2/11/2019	<0.0050	<0.0050	<0.50	7.07	7.56	0.0156	<0.00010	0.000590	0.00664
L2245144-2	WQ13	Surface		3/14/2019	<0.0050	<0.0050	<0.50	7.07	7.26	0.0138	<0.00010	0.000660	0.00672
L2256054-4	WQ13	Surface		4/9/2019	<0.0050	<0.0050	<0.50	8.57	8.95	0.0746	<0.00010	0.000640	0.00923
L2274397-3	WQ13	Surface		5/14/2019	<0.0050	<0.0050	0.240	9.44	9.28	0.112	<0.00010	0.000630	0.00685
L2286702-4	WQ13	Surface		6/4/2019	<0.0050	<0.0050	0.210	8.90	9.49	0.0661	<0.00010	0.000610	0.00632
L2312637-2	WQ13	Surface		7/16/2019	<0.0050	<0.0050	0.360	9.46	9.72	0.0382	<0.00010	0.000680	0.00674
L2326388-5	WQ13	Surface		8/8/2019	<0.0050	<0.0050	<0.50	9.96	9.62	0.0465	<0.00010	0.000660	0.00622
L2349445-4	WQ13	Surface		9/16/2019	<0.0050	<0.0050	<0.50	7.77	7.84	0.0309	<0.00010	0.000730	0.00770
L2372667-4	WQ13	Surface		10/23/2019	<0.0050	<0.0050	<0.50	7.65	8.42	0.0337	<0.00010	0.000690	0.00691
L2388381-4	WQ13	Surface		11/25/2019	<0.0050	<0.0050	<0.50	8.33	8.68	0.0403	<0.00010	0.000590	0.00715
VA19A0791-005	WQ13	Surface	Dup	12/17/2019	<0.0050	<0.0050	<0.50	7.48	8.04	0.0258	<0.00010	0.000610	0.00798
VA19A0791-004	WQ13	Surface		12/17/2019	<0.0050	<0.0050	<0.50	7.36	8.01	0.0302	<0.00010	0.000640	0.00735
VA20A0960-004	WQ13	Surface		1/27/2020	<0.0050	<0.0050	<0.50	7.10	8.07	0.0155	<0.00010	0.000630	0.00710
VA20A2126-003	WQ13	Surface		2/19/2020	<0.0050	<0.0050	<0.50	7.43	7.16	0.0104	<0.00010	0.000630	0.00711
VA20A3691-001	WQ13	Surface		3/18/2020	<0.0050	<0.0050	<0.50	7.13	6.88	0.0193	<0.00010	0.000580	0.00735
VA20A4555-005	WQ13	Surface		4/7/2020	<0.0050	<0.0050	<0.50	7.05	7.00	0.110	<0.00010	0.000650	0.00915
VA20A6218-004	WQ13	Surface		5/7/2020	<0.0050	<0.0050	<0.50	9.36	9.80	0.0703	<0.00010	0.000550	0.00719
VA20A6356-003	WQ13	Surface		5/11/2020	<0.0050	<0.0050	<0.50	10.3	11.3	0.126	<0.00010	0.000570	0.00698
VA20A6869-003	WQ13	Surface		5/20/2020	<0.0050	<0.0050	<0.50	10.3	10.5	0.102	<0.00010	0.000580	0.00684
VA20A7367-003	WQ13	Surface		5/28/2020	<0.0050	<0.0050	<0.50	9.30	9.65	0.114	<0.00010	0.000570	0.00729
VA20A7797-003	WQ13	Surface		6/3/2020	<0.0050	<0.0050	<0.50	8.56	8.86	0.0742	<0.00010	0.000600	0.00661
VA20B0021-003	WQ13	Surface		7/7/2020	<0.0050	<0.0050	<0.50	9.46	10.8	0.0524	<0.00010	0.000680	0.00770
VA20B2156-003	WQ13	Surface		8/5/2020	<0.0050	<0.0050	<0.50	8.25	8.48	0.0172	<0.00010	0.000660	0.00658
VA20B2542-004	WQ13	Surface		8/11/2020	<0.0050	<0.0050	<0.50	8.09	8.40	0.0182	<0.00010	0.000660	0.00700
VA20B3218-002	WQ13	Surface		8/18/2020	<0.0050	<0.0050	<0.50	8.75	8.86	0.0327	<0.00010	0.000750	0.00801
VA20B3860-003	WQ13	Surface		8/26/2020	<0.0050	<0.0050	<0.50	8.82	9.32	0.0268	<0.00010	0.000740	0.00859
VA20B4313-003	WQ13	Surface		9/1/2020	<0.0050	<0.0050	<0.50	8.90	9.16	0.0281	<0.00010	0.000750	0.00786
VA20B7828-003	WQ13	Surface		10/8/2020	<0.0050	<0.0050	<0.50	7.86	7.49	0.0211	<0.00010	0.000680	0.00793

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Cyanides			Organic / Inorganic Carbon		Total Metals			
					Cyanide, Total	Cyanide, Weak Acid Diss	Thiocyanate	Dissolved Organic	Total Organic	Aluminum (Al)-Total	Antimony (Sb)-Total	Arsenic (As)-Total	Barium (Ba)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
VA20C1281-002	WQ13	Surface	Dup	11/18/2020	<0.0050	<0.0050	<0.50	9.62	9.34	0.0538	<0.00010	0.000640	0.00628
VA20C1281-001	WQ13	Surface		11/18/2020	<0.0050	<0.0050	<0.50	9.42	8.96	0.112	<0.00010	0.000670	0.00699
	WQ14	Surface		5/24/2011	0.0129	<0.0050	-	20.6	18.3	0.119	<0.00005	0.000400	0.00920
	WQ14	Surface		5/30/2011	-	-	-	16.4	16.8	0.0660	<0.00005	0.000300	0.00880
	WQ14	Surface		6/6/2011	0.00980	<0.0050	-	13.6	14.5	0.0450	<0.00005	0.000300	0.00907
	WQ14	Surface		6/13/2011	<0.0050	<0.0050	-	10.5	10.5	0.0250	<0.00005	0.000300	0.00936
	WQ14	Surface	Dup	7/18/2011	<0.0060	<0.0050	<0.50	13.6	13.6	0.0640	<0.00005	0.000500	0.0113
	WQ14	Surface		7/18/2011	<0.0050	<0.0050	0.700	12.3	12.6	0.742	<0.00005	0.00110	0.0235
	WQ14	Surface		8/15/2011	<0.0050	<0.0050	-	8.30	8.30	0.0490	<0.00005	0.000500	0.0130
	WQ14	Surface		9/19/2011	<0.0050	<0.0050	-	5.20	5.20	0.0140	<0.00005	0.000300	0.0126
	WQ14	Surface		10/17/2011	<0.0050	<0.0050	-	4.60	4.70	0.0220	<0.00005	0.000100	0.0103
	WQ14	Surface	Dup	11/14/2011	-	-	-	4.20	4.20	0.00800	<0.00005	0.000200	0.0110
	WQ14	Surface		11/14/2011	<0.0050	<0.0050	-	4.30	4.30	0.0120	<0.00005	0.000200	0.0112
	WQ14	Surface		12/13/2011	<0.0050	<0.0050	-	4.20	4.20	0.0230	<0.00005	0.000200	0.0151
	WQ14	Surface	Dup	1/12/2012	-	-	<0.50	7.80	9.80	0.0510	<0.00005	0.000500	0.00821
	WQ14	Surface		1/12/2012	-	-	<0.50	3.80	5.50	0.0440	<0.00005	0.000200	0.0153
	WQ14	Surface		4/17/2012	<0.0050	<0.0050	-	8.50	8.70	0.0560	<0.00005	0.000300	0.0132
	WQ14	Surface		5/23/2012	-	-	-	11.1	11.1	0.0350	<0.00005	0.000200	0.00771
	WQ14	Surface		5/28/2012	<0.0050	<0.0050	-	11.4	11.4	0.0280	<0.00005	0.000200	0.00775
	WQ14	Surface	Dup	6/4/2012	<0.0050	<0.0050	-	10.4	10.5	0.0190	<0.00005	0.000300	0.00836
	WQ14	Surface		6/4/2012	<0.0050	<0.0050	-	10.3	10.5	0.0200	<0.00005	0.000200	0.00834
	WQ14	Surface		6/11/2012	<0.0050	<0.0050	-	9.50	9.50	0.0160	<0.00005	0.000200	0.00980
	WQ14	Surface		6/18/2012	<0.0050	<0.0050	-	8.40	8.50	0.0420	<0.00005	0.000300	0.0194
	WQ14	Surface		7/16/2012	<0.0050	<0.0050	-	8.20	8.60	0.0200	<0.00005	0.000400	0.0138
	WQ14	Surface		8/13/2012	<0.0050	<0.0050	-	8.90	8.90	0.0130	<0.00005	0.000500	0.0139
	WQ14	Surface		9/17/2012	<0.0050	<0.0050	-	24.3	24.3	0.0120	<0.00005	0.000200	0.0121
	WQ14	Surface		10/16/2012	<0.0050	<0.0050	<0.5	15.7	16.3	0.0160	<0.00005	0.000200	0.0118
	WQ14	Surface		11/12/2012	<0.0050	<0.0050	-	4.10	4.40	0.00600	<0.00005	<0.0001	0.0131
	WQ14	Surface		12/10/2012	<0.0050	<0.0050	-	4.90	4.90	0.0300	<0.00005	0.000300	0.0210
	WQ14	Surface		4/16/2013	<0.0050	<0.0050	<0.5	8.00	8.00	0.0390	<0.00005	0.000200	0.0106
	WQ14	Surface	Dup	5/14/2013	<0.0050	<0.0050	-	13.0	13.0	0.0450	<0.00005	0.000200	0.00720
	WQ14	Surface		5/14/2013	<0.0050	<0.0050	-	12.4	12.6	0.0730	<0.00005	0.000200	0.00773
	WQ14	Surface		5/21/2013	<0.0050	<0.0050	-	10.2	10.2	0.0200	<0.00005	0.000300	0.00879
	WQ14	Surface		5/28/2013	<0.0050	<0.0050	-	10.6	11.0	0.0310	<0.00005	0.000300	0.00760
	WQ14	Surface		6/4/2013	<0.0050	<0.0050	-	13.0	13.0	0.0340	<0.00005	0.000200	0.00807
	WQ14	Surface	Dup	6/11/2013	<0.0050	<0.0050	-	10.1	10.2	0.0150	<0.00005	<0.0001	0.00949
	WQ14	Surface		6/11/2013	<0.0050	<0.0050	-	10.0	10.0	0.0110	<0.00005	<0.0001	0.00938
	WQ14	Surface		6/18/2013	<0.0050	<0.0050	-	11.2	11.3	0.154	0.00737	0.00160	0.0951
	WQ15	Surface		9/24/2012	<0.0050	<0.0050	-	12.5	16.0	0.0720	<0.00005	0.000200	0.0106
	WQ15	Surface		10/15/2012	<0.0050	<0.0050	-	10.9	12.3	0.0620	<0.00005	0.000200	0.0100
	WQ15	Surface		11/13/2012	<0.0050	<0.0050	-	7.90	7.90	0.0220	<0.00005	0.000100	0.00837
	WQ15	Surface		1/13/2013	-	-	-	7.90	7.90	0.0260	<0.00005	0.000200	0.00905
	WQ15	Surface		2/12/2013	<0.0050	<0.0050	-	7.70	7.70	0.0330	<0.00005	0.000100	0.00869
	WQ15	Surface		3/11/2013	<0.0050	<0.0050	-	7.10	7.30	0.0190	<0.00005	0.000200	0.00818

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Cyanides			Organic / Inorganic Carbon		Total Metals			
					Cyanide, Total	Cyanide, Weak Acid Diss	Thiocyanate	Dissolved Organic	Total Organic	Aluminum (Al)-Total	Antimony (Sb)-Total	Arsenic (As)-Total	Barium (Ba)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ15	Surface		4/15/2013	<0.0050	<0.0050	<0.5	7.50	7.50	0.0340	< 0.00005	0.00130	0.0131
	WQ15	Surface		5/13/2013	<0.0050	<0.0050	-	9.20	9.30	0.116	< 0.00005	0.000200	0.00802
	WQ15	Surface		5/22/2013	<0.0050	<0.0050	-	8.40	8.40	0.0750	< 0.00005	0.000600	0.00766
	WQ15	Surface		5/27/2013	<0.0050	<0.0050	-	9.70	9.70	0.0880	< 0.00005	0.000200	0.00770
	WQ15	Surface		6/6/2013	<0.0050	<0.0050	-	9.70	9.70	0.0910	< 0.00005	0.000200	0.00773
	WQ15	Surface		6/10/2013	-	-	-	9.30	9.40	0.0880	0.0000600	< 0.0001	0.00824
	WQ15	Surface		6/17/2013	<0.0050	<0.0050	-	9.70	9.80	0.0840	< 0.00005	0.000100	0.00823
	WQ15	Surface		4/13/2014	<0.0050	<0.0050	-	8.20	8.40	0.0260	<0.00005	<0.0001	0.00907
	WQ15	Surface		7/2/2014	<0.0050	<0.0050	-	8.80	8.90	0.0560	<0.00005	0.000200	0.00863
	WQ15	Surface		9/24/2014	<0.0050	<0.0050	-	7.20	7.20	0.0500	<0.00005	0.000300	0.0108
	WQ15	Surface		12/8/2014	<0.0050	<0.0050	-	7.10	7.10	0.0160	<0.00005	0.000200	0.00845
	WQ16	Surface		9/24/2012	<0.0050	<0.0050	-	10.4	11.0	0.0480	< 0.00005	0.000400	0.00492
	WQ16	Surface		10/15/2012	<0.0050	<0.0050	-	9.10	9.10	0.0250	< 0.00005	0.000300	0.00365
	WQ16	Surface		11/13/2012	<0.0050	<0.0050	-	4.80	4.80	0.00600	0.0000500	0.000300	0.00366
	WQ16	Surface		1/13/2013	-	-	-	4.80	4.80	0.0280	0.0000500	0.000400	0.00419
	WQ16	Surface		2/12/2013	<0.0050	<0.0050	-	4.60	4.60	0.0110	< 0.00005	0.000300	0.00374
	WQ16	Surface		3/11/2013	<0.0050	<0.0050	-	4.50	4.60	0.408	0.0000900	0.00100	0.00782
	WQ16	Surface		4/15/2013	<0.0050	<0.0050	<0.5	4.90	4.90	0.0310	0.0000500	0.00120	0.00891
	WQ16	Surface		5/13/2013	<0.0050	<0.0050	-	5.40	5.70	0.0700	< 0.00005	0.000500	0.00354
	WQ16	Surface		5/22/2013	<0.0050	<0.0050	-	9.50	9.60	0.105	< 0.00005	0.000200	0.00867
	WQ16	Surface		5/27/2013	<0.0050	<0.0050	-	5.30	5.30	0.0520	0.0000600	0.000500	0.00311
	WQ16	Surface		6/6/2013	<0.0050	<0.0050	-	5.30	5.50	0.0390	< 0.00005	0.000400	0.00299
	WQ16	Surface		6/10/2013	-	-	-	5.20	5.50	0.183	0.0000700	0.000700	0.00619
	WQ16	Surface		6/17/2013	<0.0050	<0.0050	-	5.60	5.60	0.0320	0.0000600	0.000200	0.00295
	WQ16	Surface		4/13/2014	<0.0050	<0.0050	-	5.20	5.30	0.0140	<0.00005	0.000300	0.00351
	WQ16	Surface		7/2/2014	<0.0050	<0.0050	-	5.30	5.30	0.0670	<0.00005	0.000500	0.00300
	WQ16	Surface		9/24/2014	<0.0050	<0.0050	-	4.20	4.20	0.0760	<0.00005	0.000400	0.00427
	WQ16	Surface		12/8/2014	<0.0050	<0.0050	-	3.70	3.90	0.00900	<0.00005	0.000400	0.00354
	WQ17	Surface		12/12/2011	<0.0050	<0.0050	-	4.50	4.50	0.0320	< 0.00005	0.000300	0.00676
	WQ17	Surface		3/12/2012	<0.0050	<0.0050	-	3.30	3.30	0.0150	< 0.00005	0.000400	0.00750
	WQ17	Surface	Dup	6/18/2012	<0.0050	<0.0050	-	9.60	9.60	0.217	< 0.00005	0.000600	0.00337
	WQ17	Surface		6/18/2012	<0.0050	<0.0050	-	10.1	10.1	0.194	< 0.00005	0.000500	0.00342
	WQ17	Surface	Dup	9/17/2012	<0.0050	<0.0050	-	11.7	12.0	0.0310	< 0.00005	0.000400	0.00631
	WQ17	Surface		9/17/2012	<0.0050	<0.0050	-	10.9	10.9	0.0290	< 0.00005	0.000400	0.00692
	WQ17	Surface		1/13/2013	-	-	-	3.50	3.50	0.0210	< 0.00005	0.000300	0.00771
	WQ18	Surface		12/12/2011	<0.0050	<0.0050	-	7.10	7.20	0.0100	< 0.00005	0.000400	0.00581
	WQ18	Surface		3/12/2012	<0.0050	<0.0050	-	6.00	6.00	0.00900	< 0.00005	0.000400	0.00641
	WQ18	Surface		6/19/2012	<0.0050	<0.0050	-	8.40	8.40	0.0790	< 0.00005	0.000400	0.00489
	WQ18	Surface		9/18/2012	<0.0050	<0.0050	-	18.1	18.1	0.0150	< 0.00005	0.000500	0.00467
	WQ18	Surface		1/16/2013	-	-	-	7.40	8.20	1.00	0.000150	0.00140	0.0419
	WQ19	Surface		6/18/2012	<0.0050	<0.0050	-	2.60	2.90	0.00800	< 0.00005	0.000400	0.00924
	WQ19	Surface		9/17/2012	<0.0050	<0.0050	-	17.3	19.3	0.00900	< 0.00005	0.000500	0.00911
	WQ19	Surface		12/10/2012	<0.0050	<0.0050	-	1.50	1.50	< 0.002	0.0000500	0.000400	0.00875
	WQ26	Surface		1/13/2013	-	-	-	2.40	2.40	0.00900	< 0.00005	0.000400	0.00868

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LabID	Site	Depth	QAQC	Date	Cyanides			Organic / Inorganic Carbon		Total Metals			
					Cyanide, Total	Cyanide, Weak Acid Diss	Thiocyanate	Dissolved Organic	Total Organic	Aluminum (Al)-Total	Antimony (Sb)-Total	Arsenic (As)-Total	Barium (Ba)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ26	Surface		2/12/2013	<0.0050	<0.0050	-	2.20	2.20	0.00700	< 0.00005	0.000300	0.00811
	WQ26	Surface		3/11/2013	<0.0050	<0.0050	-	2.00	2.00	0.0110	< 0.00005	0.000500	0.00817
	WQ26	Surface		4/15/2013	<0.0050	<0.0050	<0.5	4.90	4.90	0.0400	< 0.00005	0.00370	0.0216
	WQ26	Surface		5/13/2013	<0.0050	<0.0050	-	12.8	12.8	0.328	< 0.00005	0.000400	0.00543
	WQ26	Surface		5/22/2013	<0.0050	<0.0050	-	5.00	5.00	0.0300	0.0000500	0.000400	0.00322
	WQ26	Surface		5/27/2013	<0.0050	<0.0050	-	11.5	11.8	0.298	< 0.00005	0.000400	0.00498
	WQ26	Surface		6/6/2013	<0.0050	<0.0050	-	11.0	11.0	0.211	0.0000600	0.000400	0.00510
	WQ26	Surface		6/10/2013	-	-	-	7.90	7.90	0.128	0.0000500	0.000100	0.00514
	WQ26	Surface		6/17/2013	<0.0050	<0.0050	-	9.10	9.10	0.125	< 0.00005	0.000300	0.00531
L1762266-6	WQ26	Surface	Dup	4/27/2016	<0.0050	<0.0050	-	14.0	14.5	0.327	<0.00010	0.000580	0.00700
L1762266-3	WQ26	Surface		4/27/2016	<0.0050	<0.0050	-	7.69	7.90	0.305	<0.00010	0.000570	0.00616
L1764648-3	WQ26	Surface	Dup	5/3/2016	<0.0050	<0.0050	-	11.5	11.8	0.207	<0.00010	0.000490	0.00478
L1764648-2	WQ26	Surface		5/3/2016	<0.0050	<0.0050	-	11.4	11.6	0.196	<0.00010	0.000430	0.00491
L1767107-3	WQ26	Surface		5/9/2016	<0.0050	<0.0050	-	8.69	8.63	0.155	<0.00010	0.000460	0.00483
L1770672-3	WQ26	Surface		5/16/2016	<0.0050	<0.0050	-	7.32	7.62	0.114	<0.00010	0.000520	0.00546
L1774541-2	WQ26	Surface		5/25/2016	<0.0050	<0.0050	-	6.50	6.20	0.0880	<0.00010	0.000560	0.00558
L1788643-2	WQ26	Surface		6/22/2016	<0.0050	<0.0050	-	9.72	9.28	0.124	<0.00010	0.000550	0.00516
L1808945-2	WQ26	Surface	Dup	8/3/2016	<0.0050	<0.0050	-	6.72	7.15	0.0692	<0.00010	0.000610	0.00732
L1808945-6	WQ26	Surface		8/3/2016	<0.0050	<0.0050	-	6.42	6.42	0.0652	<0.00010	0.000680	0.00737
L1812856-2	WQ26	Surface		8/10/2016	<0.0050	<0.0050	-	6.53	6.36	0.0483	<0.00010	0.000680	0.00777
L1815654-2	WQ26	Surface		8/16/2016	<0.0050	<0.0050	-	5.10	4.87	0.0350	<0.00010	0.000630	0.00787
L1819041-4	WQ26	Surface	Dup	8/23/2016	<0.0050	<0.0050	-	5.12	5.18	0.0407	<0.00010	0.000710	0.00791
L1819041-8	WQ26	Surface		8/23/2016	<0.0050	<0.0050	-	5.20	5.57	0.0397	<0.00010	0.000710	0.00793
L1823224-5	WQ26	Surface		8/31/2016	<0.0050	<0.0050	-	5.83	5.77	0.0352	<0.00010	0.000680	0.00756
L1826303-5	WQ26	Surface		9/7/2016	<0.0050	<0.0050	-	7.07	7.04	0.0440	<0.00010	0.000620	0.00654
L1913531-5	WQ26	Surface		4/12/2017	<0.0050	<0.0050	<0.50	3.32	3.61	0.0173	<0.00010	0.000560	0.00806
L1926080-2	WQ26	Surface		5/11/2017	<0.0050	<0.0050	<0.50	15.0	15.4	0.314	<0.00010	0.000680	0.00741
L1928943-5	WQ26	Surface	Dup	5/17/2017	<0.0050	<0.0050	<0.50	14.0	13.9	0.260	<0.00010	0.000490	0.00623
L1928943-1	WQ26	Surface		5/17/2017	<0.0050	<0.0050	<0.50	13.5	13.6	0.261	<0.00010	0.000480	0.00650
L1932034-3	WQ26	Surface		5/24/2017	<0.0050	<0.0050	<0.50	15.3	16.5	0.412	<0.00010	0.000630	0.00719
L1935151-5	WQ26	Surface	Dup	5/30/2017	<0.0050	<0.0050	<0.50	12.1	12.2	0.323	<0.00010	0.000530	0.00545
L1935151-1	WQ26	Surface		5/30/2017	<0.0050	<0.0050	<0.50	12.2	12.6	0.311	<0.00010	0.000550	0.00542
L1939712-4	WQ26	Surface	Dup	6/7/2017	<0.0050	<0.0050	<0.50	10.1	11.0	0.194	<0.00010	0.000520	0.00519
L1939712-3	WQ26	Surface		6/7/2017	<0.0050	<0.0050	<0.50	9.94	11.1	0.182	<0.00010	0.000540	0.00530
L1964508-1	WQ26	Surface		7/24/2017	<0.0050	<0.0050	<0.50	4.16	4.04	0.0184	0.000120	0.000630	0.00770
L1984944-4	WQ26	Surface		8/30/2017	<0.0050	<0.0050	<0.50	2.39	2.69	0.0146	<0.00010	0.000650	0.0102
L1988190-3	WQ26	Surface		9/6/2017	<0.0050	<0.0050	<0.50	3.12	3.00	0.0159	<0.00010	0.000680	0.00973
L1991279-3	WQ26	Surface		9/13/2017	<0.0050	<0.0050	<0.50	2.60	2.56	0.0135	<0.00010	0.000640	0.00924
L1995655-1	WQ26	Surface		9/21/2017	<0.0050	<0.0050	<0.50	2.94	2.84	0.0209	<0.00010	0.000550	0.00813
L1999769-1	WQ26	Surface		9/28/2017	<0.0050	<0.0050	<0.50	3.02	3.06	0.0143	<0.00010	0.000610	0.00859
L2009845-5	WQ26	Surface		10/17/2017	<0.0050	<0.0050	<0.50	6.83	7.34	0.247	<0.00010	0.000850	0.00851
L2020333-5	WQ26	Surface		11/7/2017	<0.0050	<0.0050	<0.50	6.40	6.63	0.0803	<0.00010	0.000500	0.00623
L2035356-3	WQ26	Surface		12/12/2017	<0.0050	<0.0050	<0.50	4.70	4.71	0.0402	<0.00010	0.000500	0.00722
L2049678-3	WQ26	Surface		1/24/2018	<0.0050	<0.0050	<0.50	2.76	2.77	0.0208	<0.00010	0.000590	0.00812

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Cyanides			Organic / Inorganic Carbon		Total Metals			
					Cyanide, Total	Cyanide, Weak Acid Diss	Thiocyanate	Dissolved Organic	Total Organic	Aluminum (Al)-Total	Antimony (Sb)-Total	Arsenic (As)-Total	Barium (Ba)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2057605-1	WQ26	Surface		2/14/2018	<0.0050	<0.0050	<0.50	2.83	2.91	0.0173	<0.00010	0.000540	0.00800
L2074294-4	WQ26	Surface		3/28/2018	<0.0050	<0.0050	<0.50	2.21	2.27	0.0124	<0.00010	<0.00070	0.00800
L2081503-5	WQ26	Surface		4/17/2018	<0.0050	<0.0050	<0.50	2.38	2.47	0.0130	<0.00010	0.000540	0.00796
L2097084-5	WQ26	Surface		5/16/2018	<0.0050	<0.0050	0.610	12.8	13.5	0.650	<0.00010	0.000740	0.00916
L2103632-4	WQ26	Surface		5/29/2018	<0.0050	<0.0050	<0.50	8.83	8.83	0.167	<0.00010	0.000510	0.00534
L2132986-5	WQ26	Surface		7/18/2018	<0.0050	<0.0050	1.13	4.25	4.35	0.0288	<0.00010	0.000650	0.00774
L2143640-4	WQ26	Surface	Dup	8/7/2018	<0.0050	<0.0050	<0.50	4.29	4.39	0.0254	<0.00010	0.000700	0.00803
L2143640-3	WQ26	Surface		8/7/2018	<0.0050	<0.0050	<0.50	4.35	4.51	0.0263	<0.00010	0.000710	0.00783
L2156026-1	WQ26	Surface		8/28/2018	<0.0050	<0.0050	<0.50	2.42	2.49	0.0164	<0.00010	0.000660	0.00916
L2159605-1	WQ26	Surface		9/4/2018	<0.0050	<0.0050	<0.50	2.93	2.69	0.0244	<0.00010	0.000640	0.00869
L2160840-4	WQ26	Surface	Dup	9/7/2018	<0.0050	<0.0050	<0.50	2.35	2.46	0.0128	<0.00010	0.000650	0.0101
L2160840-1	WQ26	Surface		9/7/2018	<0.0050	<0.0050	<0.50	2.42	2.44	0.0134	<0.00010	0.000710	0.00966
L2163669-3	WQ26	Surface		9/11/2018	<0.0050	<0.0050	<0.50	2.59	2.58	0.0186	<0.00010	0.000660	0.00870
L2188218-4	WQ26	Surface		10/26/2018	<0.0050	<0.0050	<0.50	4.25	4.38	0.0235	<0.00010	0.000580	0.00712
L2203408-1	WQ26	Surface		11/27/2018	<0.0050	<0.0050	<0.50	4.82	5.25	0.0522	<0.00010	0.000570	0.00601
L2213246-2	WQ26	Surface		12/18/2018	<0.0050	<0.0050	<0.50	3.65	3.76	0.0343	<0.00010	0.000530	0.00656
L2227701-2	WQ26	Surface		1/30/2019	<0.0050	<0.0050	<0.50	2.70	2.68	0.0195	<0.00010	0.000520	0.00759
L2232050-1	WQ26	Surface		2/11/2019	<0.0050	<0.0050	<0.50	2.70	2.56	0.0140	<0.00010	0.000490	0.00823
L2244756-5	WQ26	Surface	Dup	3/13/2019	<0.0050	<0.0050	<0.50	1.79	1.75	0.0116	<0.00010	0.000550	0.00806
L2244756-2	WQ26	Surface		3/13/2019	<0.0050	<0.0050	<0.50	1.99	1.76	0.0110	<0.00010	0.000500	0.00780
L2256053-2	WQ26	Surface		4/8/2019	<0.0050	<0.0050	<0.50	5.82	5.95	0.0666	<0.00010	0.000610	0.00660
L2269368-2	WQ26	Surface		5/4/2019	<0.0050	<0.0050	0.310	11.5	11.9	0.240	<0.00010	0.000560	0.00620
L2273497-4	WQ26	Surface		5/13/2019	<0.0050	<0.0050	0.370	13.6	14.0	0.259	<0.00010	0.000520	0.00562
L2277964-7	WQ26	Surface		5/21/2019	<0.0050	<0.0050	0.570	18.3	17.0	0.536	<0.00010	0.000770	0.00938
L2282975-2	WQ26	Surface		5/29/2019	<0.0050	<0.0050	0.330	11.3	12.9	0.198	<0.00010	0.000530	0.00588
L2285579-2	WQ26	Surface		6/3/2019	<0.0050	<0.0050	0.280	9.15	9.28	0.128	<0.00010	0.000530	0.00534
L2312637-3	WQ26	Surface		7/16/2019	<0.0050	<0.0050	0.410	9.50	9.36	0.125	<0.00010	0.000580	0.00619
L2326388-3	WQ26	Surface		8/8/2019	<0.0050	<0.0050	<0.50	8.98	8.71	0.0975	<0.00010	0.000620	0.00609
L2349445-7	WQ26	Surface	Dup	9/16/2019	<0.0050	<0.0050	<0.50	5.06	5.10	0.0413	<0.00010	0.000630	0.00715
L2349445-5	WQ26	Surface		9/16/2019	<0.0050	<0.0050	<0.50	5.22	5.09	0.0406	<0.00010	0.000630	0.00709
L2371052-6	WQ26	Surface	Dup	10/22/2019	<0.0050	<0.0050	<0.50	8.15	7.89	0.101	<0.00010	0.000570	0.00570
L2371052-4	WQ26	Surface		10/22/2019	<0.0050	<0.0050	<0.50	7.66	8.09	0.123	<0.00010	0.000530	0.00566
L2383392-2	WQ26	Surface		11/14/2019	<0.0050	<0.0050	<0.50	7.67	6.99	0.0964	<0.00010	0.000480	0.00522
VA19A0726-001	WQ26	Surface		12/16/2019	<0.0050	<0.0050	<0.50	5.33	5.46	0.0750	<0.00010	0.000450	0.00588
VA20A0688-002	WQ26	Surface		1/21/2020	<0.0050	<0.0050	<0.50	4.73	4.55	0.0310	<0.00010	0.000480	0.00683
VA20A1887-002	WQ26	Surface		2/13/2020	<0.0050	<0.0050	<0.50	3.34	3.24	0.0205	<0.00010	0.000480	0.00702
VA20A3516-002	WQ26	Surface		3/16/2020	<0.0050	<0.0050	<0.50	2.85	2.93	0.0170	<0.00010	0.000510	0.00750
VA20A4555-001	WQ26	Surface		4/7/2020	<0.0050	<0.0050	<0.50	2.23	2.44	0.0160	<0.00010	0.000480	0.00838
VA20A6574-003	WQ26	Surface		5/14/2020	<0.0050	<0.0050	<0.50	12.9	13.5	0.260	<0.00010	0.000430	0.00555
VA20B2156-002	WQ26	Surface		8/5/2020	<0.0050	<0.0050	<0.50	4.32	4.48	0.0349	<0.00010	0.000590	0.00758
VA20C1166-003	WQ26	Surface		11/17/2020	<0.0050	<0.0050	<0.50	8.57	8.44	0.214	<0.00010	0.000500	0.00638
	WQ27	Surface		4/13/2014	<0.0050	<0.0050	-	2.60	2.50	0.0130	<0.00005	0.000300	0.00709
	WQ27	Surface		7/2/2014	<0.0050	<0.0050	-	5.80	5.80	0.0540	<0.00005	0.000500	0.00572
	WQ27	Surface		9/24/2014	<0.0050	<0.0050	-	2.20	2.20	0.0110	<0.00005	0.000500	0.0101

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LabID	Site	Depth	QAQC	Date	Cyanides			Organic / Inorganic Carbon		Total Metals			
					Cyanide, Total	Cyanide, Weak Acid Diss	Thiocyanate	Dissolved Organic	Total Organic	Aluminum (Al)-Total	Antimony (Sb)-Total	Arsenic (As)-Total	Barium (Ba)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ27	Surface		12/9/2014	<0.0050	<0.0050	-	1.90	1.90	0.00500	<0.00005	0.000600	0.00760
L1762266-4	WQ27	Surface		4/27/2016	<0.0050	<0.0050	-	14.6	14.7	0.249	<0.00010	0.000420	0.00498
L1764648-6	WQ27	Surface		5/3/2016	<0.0050	<0.0050	-	11.3	11.7	0.209	<0.00010	0.000490	0.00490
L1767107-4	WQ27	Surface		5/9/2016	<0.0050	<0.0050	-	8.92	8.07	0.160	<0.00010	0.000440	0.00426
L1770672-4	WQ27	Surface		5/16/2016	<0.0050	<0.0050	-	7.58	7.34	0.124	<0.00010	0.000500	0.00444
L1774541-3	WQ27	Surface		5/25/2016	<0.0050	<0.0050	-	6.56	6.54	0.102	<0.00010	0.000580	0.00504
L1788643-6	WQ27	Surface	Dup	6/22/2016	<0.0050	<0.0050	-	9.68	9.55	0.138	<0.00010	0.000560	0.00501
L1788643-3	WQ27	Surface		6/22/2016	<0.0050	<0.0050	-	10.0	9.99	0.138	<0.00010	0.000590	0.00485
L1808945-3	WQ27	Surface		8/3/2016	<0.0050	<0.0050	-	6.78	7.03	0.0810	<0.00010	0.000640	0.00688
L1812856-3	WQ27	Surface		8/10/2016	<0.0050	<0.0050	-	6.74	6.75	0.0553	<0.00010	0.000690	0.00710
L1815654-3	WQ27	Surface		8/16/2016	<0.0050	<0.0050	-	4.98	4.99	0.0470	<0.00010	0.000690	0.00766
L1819041-10	WQ27	Surface		8/23/2016	<0.0050	<0.0050	-	5.67	5.61	0.0522	<0.00010	0.000740	0.00689
L1823224-6	WQ27	Surface		8/31/2016	<0.0050	<0.0050	-	6.41	6.36	0.0507	<0.00010	0.000710	0.00672
L1826303-2	WQ27	Surface		9/7/2016	<0.0050	<0.0050	-	7.33	7.32	0.0610	<0.00010	0.000610	0.00573
L1913006-2	WQ27	Surface		4/11/2017	<0.0050	<0.0050	<0.5	2.73	2.63	0.0193	<0.00010	0.000530	0.00779
L1925486-3	WQ27	Surface		5/10/2017	<0.0050	<0.0050	<0.50	15.4	15.8	0.275	<0.00010	0.000510	0.00678
L1928943-2	WQ27	Surface		5/17/2017	<0.0050	<0.0050	<0.50	14.0	14.3	0.267	<0.00010	0.000450	0.00649
L1932034-2	WQ27	Surface		5/24/2017	<0.0050	<0.0050	<0.50	15.7	15.9	0.348	<0.00010	0.000580	0.00610
L1935151-2	WQ27	Surface		5/30/2017	<0.0050	<0.0050	<0.50	12.5	13.3	0.313	<0.00010	0.000550	0.00513
L1939712-2	WQ27	Surface		6/7/2017	<0.0050	<0.0050	<0.50	10.6	10.2	0.171	<0.00010	0.000520	0.00470
L1961670-3	WQ27	Surface		7/18/2017	<0.0050	<0.0050	<0.50	4.10	4.13	0.0344	<0.00010	0.000580	0.00671
L1984944-3	WQ27	Surface		8/30/2017	<0.0050	<0.0050	<0.50	2.26	2.36	0.0172	<0.00010	0.000590	0.0106
L1988832-2	WQ27	Surface		9/8/2017	<0.0050	<0.0050	<0.50	2.87	2.92	0.0185	<0.00010	0.000670	0.00997
L1991279-2	WQ27	Surface	Dup	9/13/2017	<0.0050	<0.0050	<0.50	2.97	2.91	0.0168	<0.00010	0.000610	0.00887
L1991279-6	WQ27	Surface		9/13/2017	<0.0050	<0.0050	<0.50	2.85	2.92	0.0172	<0.00010	0.000590	0.00858
L1995655-2	WQ27	Surface		9/21/2017	<0.0050	<0.0050	<0.50	3.78	3.87	0.0345	<0.00010	0.000690	0.00694
L1999769-2	WQ27	Surface		9/28/2017	<0.0050	<0.0050	<0.50	3.38	3.57	0.0201	<0.00010	0.000630	0.00789
L2011329-3	WQ27	Surface		10/19/2017	<0.0050	<0.0050	<0.50	10.7	11.3	0.127	<0.00010	0.000710	0.00602
L2020946-2	WQ27	Surface		11/8/2017	<0.0050	<0.0050	<0.50	6.27	6.48	0.0904	<0.00010	0.000520	0.00516
L2035356-2	WQ27	Surface		12/12/2017	<0.0050	<0.0050	<0.50	4.51	4.75	0.0473	<0.00010	0.000510	0.00590
L2049678-4	WQ27	Surface		1/24/2018	<0.0050	<0.0050	<0.50	2.90	2.98	0.0307	<0.00010	0.000590	0.00684
L2057605-2	WQ27	Surface		2/14/2018	<0.0050	<0.0050	<0.50	2.88	3.20	0.0237	<0.00010	0.000580	0.00671
L2074294-5	WQ27	Surface		3/28/2018	<0.0050	<0.0050	<0.50	2.21	2.28	0.0148	<0.00010	<0.00070	0.00733
L2081503-6	WQ27	Surface		4/17/2018	<0.0050	<0.0050	<0.50	2.71	2.63	0.0171	<0.00010	0.000520	0.00696
L2093061-1	WQ27	Surface		5/9/2018	<0.0050	<0.0050	0.550	17.9	20.2	0.670	<0.00010	0.000830	0.0100
L2097084-6	WQ27	Surface		5/16/2018	<0.0050	<0.0050	<0.50	12.9	12.7	0.488	<0.00010	0.000610	0.00690
L2100419-3	WQ27	Surface	Dup	5/23/2018	<0.0050	<0.0050	0.850	10.5	10.4	0.251	<0.00010	0.000510	0.00543
L2100419-1	WQ27	Surface		5/23/2018	<0.0050	<0.0050	0.830	10.3	10.5	0.249	<0.00010	0.000540	0.00524
L2103632-5	WQ27	Surface		5/29/2018	<0.0050	<0.0050	0.740	8.66	8.76	0.176	<0.00010	0.000500	0.00450
L2106738-3	WQ27	Surface	Dup	6/4/2018	<0.0050	<0.0050	0.830	8.65	8.68	0.130	<0.00010	0.000460	0.00440
L2106738-1	WQ27	Surface		6/4/2018	<0.0050	<0.0050	0.800	8.97	9.03	0.137	<0.00010	0.000460	0.00444
L2132986-4	WQ27	Surface		7/18/2018	<0.0050	<0.0050	1.15	4.27	4.31	0.0452	<0.00010	0.000660	0.00759
L2143640-8	WQ27	Surface		8/7/2018	<0.0050	<0.0050	<0.50	4.55	4.66	0.0373	<0.00010	0.000740	0.00748
L2156026-4	WQ27	Surface	Dup	8/28/2018	<0.0050	<0.0050	0.790	2.49	2.51	0.0207	<0.00010	0.000660	0.00911

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					Cyanide, Total	Cyanide, Weak Acid Diss	Thiocyanate	Dissolved Organic	Total Organic	Aluminum (Al)-Total	Antimony (Sb)-Total	Arsenic (As)-Total	Barium (Ba)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2156026-2	WQ27	Surface		8/28/2018	<0.0050	<0.0050	<0.50	2.58	2.58	0.0213	<0.00010	0.000650	0.00912
L2159605-2	WQ27	Surface		9/4/2018	<0.0050	<0.0050	<0.50	2.65	2.66	0.0217	<0.00010	0.000620	0.00864
L2160840-2	WQ27	Surface		9/7/2018	<0.0050	<0.0050	<0.50	2.40	2.45	0.0168	<0.00010	0.000640	0.00973
L2163669-4	WQ27	Surface		9/11/2018	<0.0050	<0.0050	<0.50	2.78	2.92	0.0211	<0.00010	0.000640	0.00793
L2188218-3	WQ27	Surface		10/26/2018	<0.0050	<0.0050	<0.50	4.32	4.32	0.0362	<0.00010	0.000570	0.00633
L2204508-6	WQ27	Surface	Dup	11/29/2018	<0.0050	<0.0050	<0.50	6.31	6.39	0.0764	<0.00010	0.000540	0.00543
L2204508-4	WQ27	Surface		11/29/2018	<0.0050	<0.0050	<0.50	6.23	6.31	0.0755	<0.00010	0.000560	0.00564
L2213246-3	WQ27	Surface		12/18/2018	<0.0050	<0.0050	<0.50	3.86	3.94	0.0458	<0.00010	0.000540	0.00604
L2227701-3	WQ27	Surface		1/30/2019	<0.0050	<0.0050	<0.50	2.77	3.07	0.0277	<0.00010	0.000530	0.00699
L2232050-2	WQ27	Surface		2/11/2019	<0.0050	<0.0050	<0.50	2.32	2.68	0.0212	<0.00010	0.000510	0.00744
L2244756-3	WQ27	Surface		3/13/2019	<0.0050	<0.0050	<0.50	1.80	1.70	0.0164	<0.00010	0.000560	0.00797
L2256053-3	WQ27	Surface		4/8/2019	<0.0050	<0.0050	<0.50	5.63	5.40	0.0562	<0.00010	0.000570	0.00679
L2269368-3	WQ27	Surface		5/4/2019	<0.0050	<0.0050	0.330	12.4	12.3	0.254	<0.00010	0.000520	0.00612
L2274397-1	WQ27	Surface		5/14/2019	<0.0050	<0.0050	0.360	13.8	12.5	0.227	<0.00010	0.000560	0.00503
L2277964-6	WQ27	Surface		5/21/2019	<0.0050	<0.0050	0.450	17.8	17.8	0.464	<0.00010	0.000780	0.00808
L2282975-3	WQ27	Surface		5/29/2019	<0.0050	<0.0050	0.320	10.9	11.6	0.182	<0.00010	0.000570	0.00486
L2285579-3	WQ27	Surface		6/3/2019	<0.0050	<0.0050	0.310	9.09	9.17	0.140	<0.00010	0.000490	0.00471
L2312637-4	WQ27	Surface		7/16/2019	<0.0050	<0.0050	0.400	9.60	8.92	0.137	<0.00010	0.000590	0.00565
L2326388-2	WQ27	Surface		8/8/2019	<0.0050	<0.0050	<0.50	9.05	8.84	0.113	<0.00010	0.000630	0.00551
L2350223-2	WQ27	Surface		9/17/2019	<0.0050	<0.0050	<0.50	6.18	5.78	0.0658	<0.00010	0.000680	0.00579
L2372667-2	WQ27	Surface		10/23/2019	<0.0050	<0.0050	<0.50	7.13	7.36	0.107	<0.00010	0.000480	0.00509
L2383392-3	WQ27	Surface		11/14/2019	<0.0050	<0.0050	<0.50	7.83	7.58	0.121	<0.00010	0.000440	0.00480
VA19A0726-002	WQ27	Surface		12/16/2019	<0.0050	<0.0050	<0.50	5.35	5.66	0.0983	<0.00010	0.000450	0.00523
VA20A0812-002	WQ27	Surface		1/23/2020	<0.0050	<0.0050	<0.50	3.86	4.10	0.0432	<0.00010	0.000450	0.00632
VA20A1887-005	WQ27	Surface		2/13/2020	<0.0050	<0.0050	<0.50	3.09	3.29	0.0302	<0.00010	0.000490	0.00630
VA20A3516-003	WQ27	Surface		3/16/2020	<0.0050	<0.0050	<0.50	2.59	2.93	0.0287	<0.00010	0.000500	0.00671
VA20A4369-002	WQ27	Surface		4/1/2020	<0.0050	<0.0050	<0.50	2.44	2.46	0.0258	<0.00010	0.000500	0.00738
L1913006-4	WQ28	Surface		4/11/2017	<0.0050	<0.0050	<0.5	2.57	2.55	0.0203	<0.00010	0.000540	0.00759
L1925486-2	WQ28	Surface		5/10/2017	<0.0050	<0.0050	<0.50	15.6	15.7	0.279	<0.00010	0.000490	0.00684
L1928943-3	WQ28	Surface		5/17/2017	<0.0050	<0.0050	<0.50	14.3	14.4	0.281	<0.00010	0.000470	0.00634
L1932034-4	WQ28	Surface	Dup	5/24/2017	<0.0050	<0.0050	<0.50	15.7	16.0	0.332	<0.00010	0.000560	0.00582
L1932034-1	WQ28	Surface		5/24/2017	<0.0050	<0.0050	<0.50	15.6	15.7	0.343	<0.00010	0.000550	0.00586
L1935151-3	WQ28	Surface		5/30/2017	<0.0050	<0.0050	<0.50	12.6	12.8	0.314	<0.00010	0.000530	0.00507
L1939712-1	WQ28	Surface		6/7/2017	<0.0050	<0.0050	<0.50	10.1	10.1	0.177	0.000140	0.000530	0.00461
L1961670-5	WQ28	Surface	Dup	7/18/2017	<0.0050	<0.0050	<0.50	4.27	4.15	0.0363	<0.00010	0.000620	0.00642
L1961670-4	WQ28	Surface		7/18/2017	<0.0050	<0.0050	<0.50	4.33	4.27	0.0349	<0.00010	0.000600	0.00608
L1984944-2	WQ28	Surface		8/30/2017	<0.0050	<0.0050	<0.50	2.31	2.39	0.0202	<0.00010	0.000670	0.0103
L1988832-3	WQ28	Surface		9/8/2017	<0.0050	<0.0050	<0.50	3.01	3.36	0.0229	<0.00010	0.000760	0.00952
L1991279-1	WQ28	Surface		9/13/2017	<0.0050	<0.0050	<0.50	3.07	2.95	0.0202	<0.00010	0.000720	0.00867
L1995655-3	WQ28	Surface	Dup	9/21/2017	<0.0050	<0.0050	<0.50	4.01	4.05	0.0366	<0.00010	0.000700	0.00663
L1995655-5	WQ28	Surface		9/21/2017	<0.0050	<0.0050	<0.50	4.01	4.12	0.0372	<0.00010	0.000700	0.00669
L1999769-3	WQ28	Surface	Dup	9/28/2017	<0.0050	<0.0050	<0.50	3.54	3.49	0.0238	<0.00010	0.000680	0.00771
L1999769-4	WQ28	Surface		9/28/2017	<0.0050	<0.0050	<0.50	3.58	3.55	0.0234	<0.00010	0.000670	0.00742
L2011329-4	WQ28	Surface		10/19/2017	<0.0050	<0.0050	<0.50	11.4	12.3	0.131	<0.00010	0.000690	0.00574

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Cyanides			Organic / Inorganic Carbon		Total Metals			
					Cyanide, Total	Cyanide, Weak Acid Diss	Thiocyanate	Dissolved Organic	Total Organic	Aluminum (Al)-Total	Antimony (Sb)-Total	Arsenic (As)-Total	Barium (Ba)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2020946-3	WQ28	Surface		11/8/2017	<0.0050	<0.0050	<0.50	6.44	6.46	0.0835	<0.00010	0.000530	0.00488
L2035356-1	WQ28	Surface		12/12/2017	<0.0050	<0.0050	<0.50	4.62	4.73	0.0530	<0.00010	0.000560	0.00582
L2049678-5	WQ28	Surface		1/24/2018	<0.0050	<0.0050	<0.50	3.10	3.11	0.0284	<0.00010	0.000600	0.00630
L2057605-3	WQ28	Surface		2/14/2018	<0.0050	<0.0050	<0.50	2.64	2.89	0.0552	<0.00010	0.000600	0.00716
L2074294-6	WQ28	Surface		3/28/2018	<0.0050	<0.0050	<0.50	2.41	2.43	0.0165	<0.00010	<0.00070	0.00664
L2081503-7	WQ28	Surface		4/17/2018	<0.0050	<0.0050	<0.50	2.64	2.85	0.0204	<0.00010	0.000570	0.00670
L2093061-3	WQ28	Surface	Dup	5/9/2018	<0.0050	<0.0050	0.500	16.8	20.2	0.743	<0.00010	0.000850	0.0105
L2093061-2	WQ28	Surface		5/9/2018	<0.0050	<0.0050	0.510	17.3	20.5	0.758	<0.00010	0.000900	0.0116
L2097084-7	WQ28	Surface		5/16/2018	<0.0050	<0.0050	0.510	12.4	12.3	0.463	<0.00010	0.000560	0.00658
L2100419-2	WQ28	Surface		5/23/2018	<0.0050	<0.0050	0.850	10.2	10.5	0.242	<0.00010	0.000530	0.00500
L2103632-6	WQ28	Surface		5/29/2018	<0.0050	<0.0050	<0.50	8.65	8.93	0.208	<0.00010	0.000530	0.00463
L2106738-2	WQ28	Surface		6/4/2018	<0.0050	<0.0050	0.790	9.07	9.11	0.134	<0.00010	0.000460	0.00516
L2132986-3	WQ28	Surface		7/18/2018	<0.0050	<0.0050	0.680	4.32	4.47	0.0483	<0.00010	0.000700	0.00698
L2143640-7	WQ28	Surface		8/7/2018	<0.0050	<0.0050	<0.50	4.58	4.60	0.0418	<0.00010	0.000770	0.00720
L2156026-3	WQ28	Surface		8/28/2018	<0.0050	<0.0050	<0.50	2.57	2.64	0.0249	<0.00010	0.000720	0.00890
L2159605-4	WQ28	Surface	Dup	9/4/2018	<0.0050	<0.0050	<0.50	2.66	2.68	0.0202	<0.00010	0.000670	0.00858
L2159605-3	WQ28	Surface		9/4/2018	<0.0050	<0.0050	<0.50	2.65	2.67	0.0219	<0.00010	0.000660	0.00822
L2160840-3	WQ28	Surface		9/7/2018	<0.0050	<0.0050	<0.50	2.40	2.35	0.0170	<0.00010	0.000690	0.00947
L2163669-5	WQ28	Surface		9/11/2018	<0.0050	<0.0050	<0.50	2.83	2.88	0.0232	<0.00010	0.000720	0.00779
L2188218-2	WQ28	Surface		10/26/2018	<0.0050	<0.0050	<0.50	4.44	4.47	0.0413	<0.00010	0.000550	0.00643
L2204508-5	WQ28	Surface		11/29/2018	<0.0050	<0.0050	<0.50	6.25	6.50	0.0810	<0.00010	0.000560	0.00529
L2213246-4	WQ28	Surface		12/18/2018	<0.0050	<0.0050	<0.50	3.90	3.90	0.0487	<0.00010	0.000580	0.00617
L2227701-4	WQ28	Surface		1/30/2019	<0.0050	<0.0050	<0.50	2.79	2.98	0.0310	<0.00010	0.000590	0.00691
L2232050-3	WQ28	Surface		2/11/2019	<0.0050	<0.0050	<0.50	2.54	2.49	0.0239	<0.00010	0.000540	0.00722
L2244756-4	WQ28	Surface		3/13/2019	<0.0050	<0.0050	<0.50	1.77	2.03	0.0151	<0.00010	0.000560	0.00791
L2256053-4	WQ28	Surface		4/8/2019	<0.0050	<0.0050	<0.50	5.62	6.01	0.0346	<0.00010	0.000520	0.00741
L2269368-4	WQ28	Surface		5/4/2019	<0.0050	<0.0050	0.330	12.4	12.3	0.246	<0.00010	0.000520	0.00596
L2274397-2	WQ28	Surface		5/14/2019	<0.0050	<0.0050	0.380	13.2	12.3	0.236	<0.00010	0.000540	0.00536
L2277964-8	WQ28	Surface	Dup	5/21/2019	<0.0050	<0.0050	0.450	16.2	17.6	0.396	<0.00010	0.000640	0.00705
L2277964-5	WQ28	Surface		5/21/2019	<0.0050	<0.0050	0.510	16.5	17.6	0.377	<0.00010	0.000690	0.00673
L2282975-6	WQ28	Surface	Dup	5/29/2019	<0.0050	<0.0050	0.310	10.9	11.3	0.181	<0.00010	0.000480	0.00486
L2282975-4	WQ28	Surface		5/29/2019	<0.0050	<0.0050	0.310	11.0	11.6	0.182	<0.00010	0.000480	0.00486
L2285579-4	WQ28	Surface		6/3/2019	<0.0050	<0.0050	0.300	9.26	9.15	0.147	<0.00010	0.000540	0.00469
L2312637-5	WQ28	Surface		7/16/2019	<0.0050	<0.0050	0.430	9.37	9.02	0.137	<0.00010	0.000560	0.00541
L2326388-4	WQ28	Surface		8/8/2019	<0.0050	<0.0050	<0.50	8.98	8.74	0.125	<0.00010	0.000590	0.00583
L2350223-3	WQ28	Surface		9/17/2019	<0.0050	<0.0050	<0.50	6.21	5.97	0.0648	<0.00010	0.000650	0.00584
L2372667-3	WQ28	Surface		10/23/2019	<0.0050	<0.0050	<0.50	7.18	7.41	0.116	<0.00010	0.000510	0.00508
L2383392-4	WQ28	Surface		11/14/2019	<0.0050	<0.0050	<0.50	7.95	7.34	0.125	<0.00010	0.000510	0.00471
VA19A0726-003	WQ28	Surface		12/16/2019	<0.0050	<0.0050	<0.50	5.63	5.70	0.0854	<0.00010	0.000450	0.00546
VA20A0812-003	WQ28	Surface		1/23/2020	<0.0050	<0.0050	<0.50	4.44	4.01	0.0457	<0.00010	0.000520	0.00640
VA20A1887-004	WQ28	Surface		2/13/2020	<0.0050	<0.0050	<0.50	3.22	3.35	0.0373	<0.00010	0.000520	0.00598
VA20A3516-004	WQ28	Surface		3/16/2020	<0.0050	<0.0050	<0.50	2.78	2.78	0.0376	<0.00010	0.000520	0.00658
VA20A4369-003	WQ28	Surface		4/1/2020	<0.0050	<0.0050	<0.50	2.58	2.56	0.0323	<0.00010	0.000540	0.0249
VA20A6356-004	WQ28	Surface		5/11/2020	<0.0050	<0.0050	<0.50	13.7	14.2	0.312	<0.00010	0.000430	0.00596

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					Cyanide, Total	Cyanide, Weak Acid Diss	Thiocyanate	Dissolved Organic	Total Organic	Aluminum (Al)-Total	Antimony (Sb)-Total	Arsenic (As)-Total	Barium (Ba)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
VA20B2426-005	WQ28	Surface		8/10/2020	<0.0050	<0.0050	<0.50	6.13	6.12	0.0672	<0.00010	0.000690	0.00614
VA20C0197-004	WQ28	Surface		11/4/2020	<0.0050	<0.0050	<0.50	15.7	15.2	0.328	<0.00010	0.000510	0.00635
L2238112-1	WQ29	Surface		2/26/2019	<0.0050	<0.0050	<0.50	6.99	6.96	0.0161	<0.00010	0.000530	0.00793
L2278768-1	WQ29	Surface		5/22/2019	<0.0050	<0.0050	0.300	12.5	13.4	0.210	<0.00010	0.000620	0.00920
L2325935-4	WQ29	Surface	Dup	8/7/2019	<0.0050	<0.0050	<0.50	9.96	10.2	0.0397	<0.00010	0.000760	0.00774
L2325935-2	WQ29	Surface		8/7/2019	<0.0050	<0.0050	<0.50	10.8	11.1	0.0451	<0.00010	0.000800	0.00792
L2388381-6	WQ29	Surface	Dup	11/25/2019	<0.0050	<0.0050	<0.50	8.86	9.32	0.0646	<0.00010	0.000580	0.00735
L2388381-5	WQ29	Surface		11/25/2019	<0.0050	<0.0050	<0.50	8.94	9.37	0.0640	<0.00010	0.000570	0.00731
VA20A1056-001	WQ29	Surface		1/28/2020	<0.0050	<0.0050	<0.50	6.86	8.01	0.0327	<0.00010	0.000560	0.00887
VA20A1776-001	WQ29	Surface		2/2/2020	<0.0050	<0.0050	<0.50	7.64	7.26	0.0346	<0.00010	0.000550	0.00808
VA20A3580-003	WQ29	Surface	Dup	3/17/2020	<0.0050	<0.0050	<0.50	6.54	7.17	0.0241	<0.00010	0.000560	0.00820
VA20A3580-001	WQ29	Surface		3/17/2020	<0.0050	<0.0050	<0.50	6.67	7.44	0.0223	<0.00010	0.000560	0.00838
VA20A4424-003	WQ29	Surface	Dup	4/2/2020	<0.0050	<0.0050	<0.50	7.40	7.27	0.0299	<0.00010	0.000590	0.00875
VA20A4424-001	WQ29	Surface		4/2/2020	<0.0050	<0.0050	<0.50	6.92	7.10	0.0309	<0.00010	0.000580	0.00892
VA20A6114-001	WQ29	Surface		5/6/2020	<0.0050	<0.0050	<0.50	10.4	11.1	0.0889	<0.00010	0.000480	0.00820
VA20A6503-001	WQ29	Surface		5/13/2020	<0.0050	<0.0050	<0.50	10.4	10.9	0.0876	<0.00010	0.000470	0.00698
VA20A6869-004	WQ29	Surface		5/20/2020	<0.0050	<0.0050	<0.50	10.9	10.6	0.0754	<0.00010	0.000490	0.00712
VA20A7367-004	WQ29	Surface		5/28/2020	<0.0050	<0.0050	<0.50	9.48	9.96	0.0829	<0.00010	0.000580	0.00777
VA20A7797-001	WQ29	Surface		6/3/2020	<0.0050	<0.0050	<0.50	8.32	9.87	0.0928	<0.00010	0.000650	0.00769
VA20B0021-001	WQ29	Surface		7/7/2020	<0.0050	<0.0050	<0.50	10.1	11.3	0.0536	<0.00010	0.000640	0.00851
VA20B2012-001	WQ29	Surface		8/4/2020	<0.0050	<0.0050	<0.50	8.48	8.76	0.0227	<0.00010	0.000800	0.00764
VA20B2542-001	WQ29	Surface		8/11/2020	<0.0050	<0.0050	<0.50	7.84	9.35	0.0251	<0.00010	0.000800	0.00781
VA20B3033-001	WQ29	Surface		8/17/2020	<0.0050	<0.0050	<0.50	8.86	10.1	0.0500	<0.00010	0.000780	0.00864
VA20B3860-001	WQ29	Surface		8/26/2020	<0.0050	<0.0050	<0.50	8.94	8.89	0.0202	<0.00010	0.000760	0.00912
VA20B4443-001	WQ29	Surface		9/2/2020	<0.0050	<0.0050	<0.50	9.07	9.10	0.0141	<0.00010	0.000750	0.00816
VA20B7828-004	WQ29	Surface	Dup	10/8/2020	<0.0050	<0.0050	<0.50	7.44	7.37	0.0216	<0.00010	0.000710	0.00844
VA20B7828-001	WQ29	Surface		10/8/2020	<0.0050	<0.0050	<0.50	7.62	7.82	0.0258	<0.00010	0.000750	0.00921
VA20B9945-001	WQ29	Surface		11/2/2020	<0.0050	<0.0050	<0.50	12.8	13.6	0.169	<0.00010	0.000600	0.00881
	WQ3	Surface		5/17/2011	0.0134	<0.0050	-	17.1	17.0	0.575	0.0000700	0.000900	0.00782
	WQ3	Surface		5/25/2011	0.0137	<0.0050	-	19.2	15.1	0.320	0.0000600	0.000400	0.00418
	WQ3	Surface		5/31/2011	-	-	-	13.5	24.3	0.217	0.0000700	0.000400	0.00348
	WQ3	Surface		6/7/2011	0.00820	<0.0050	-	10.9	11.7	0.146	0.0000700	0.000500	0.00655
	WQ3	Surface		6/14/2011	<0.0050	<0.0050	-	8.80	8.80	0.116	0.0000700	0.000600	0.00356
	WQ3	Surface		7/19/2011	<0.0050	<0.0050	<0.50	7.30	7.40	0.104	0.0000600	0.000700	0.00460
	WQ3	Surface		8/16/2011	<0.0050	<0.0050	-	5.60	5.60	0.123	< 0.00005	0.00100	0.00529
	WQ3	Surface		9/20/2011	<0.0050	<0.0050	-	2.50	2.60	0.101	< 0.00005	0.00110	0.00554
	WQ3	Surface		10/18/2011	<0.0050	<0.0050	-	2.80	2.80	0.0350	< 0.00005	0.000900	0.00466
	WQ3	Surface		11/15/2011	<0.0050	<0.0050	-	2.50	2.50	0.0260	< 0.00005	0.00110	0.00513
	WQ3	Surface		12/12/2011	<0.0050	<0.0050	-	2.30	2.30	0.0330	0.0000700	0.00110	0.00481
	WQ3	Surface		1/12/2012	-	-	<0.50	1.90	1.90	0.0430	< 0.00005	0.00110	0.00531
	WQ3	Surface		2/13/2012	<0.0050	<0.0050	-	1.50	1.50	0.157	< 0.00005	0.00130	0.00618
	WQ3	Surface		3/12/2012	<0.0050	<0.0050	-	1.40	1.40	0.0210	< 0.00005	0.00110	0.00477
	WQ3	Surface		4/16/2012	<0.0050	<0.0050	-	2.50	2.50	0.0290	0.0000700	0.00110	0.00512
	WQ3	Surface		5/14/2012	<0.0050	<0.0050	-	10.5	10.5	0.221	< 0.00005	0.000600	0.00708

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					Cyanide, Total	Cyanide, Weak Acid Diss	Thiocyanate	Dissolved Organic	Total Organic	Aluminum (Al)-Total	Antimony (Sb)-Total	Arsenic (As)-Total	Barium (Ba)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ3	Surface		5/22/2012	<0.0050	<0.0050	-	10.9	11.0	0.247	0.0000500	0.000600	0.00506
	WQ3	Surface		5/29/2012	<0.0050	<0.0050	-	10.4	10.4	0.115	0.0000500	0.000400	0.00361
	WQ3	Surface		6/5/2012	<0.0050	<0.0050	-	9.10	9.50	0.0920	0.0000600	0.000500	0.00389
	WQ3	Surface		6/12/2012	<0.0050	<0.0050	-	7.70	7.80	0.0860	0.0000600	0.000500	0.00442
	WQ3	Surface		6/19/2012	<0.0050	<0.0050	-	7.00	7.10	0.0850	< 0.00005	0.000600	0.00414
	WQ3	Surface		7/17/2012	<0.0050	<0.0050	-	3.60	4.10	0.0560	0.0000600	0.000900	0.00484
	WQ3	Surface		8/14/2012	<0.0050	<0.0050	-	3.60	3.70	0.0330	< 0.00005	0.00110	0.00500
	WQ3	Surface		9/18/2012	<0.0050	<0.0050	-	10.4	10.4	0.0490	< 0.00005	0.00110	0.00502
	WQ3	Surface		10/15/2012	<0.0050	<0.0050	-	11.3	11.3	0.0310	< 0.00005	0.00110	0.00481
	WQ3	Surface		11/13/2012	<0.0050	<0.0050	-	2.60	2.60	0.0310	< 0.00005	0.00120	0.00505
	WQ3	Surface		12/10/2012	-	-	-	6.50	6.50	0.0190	< 0.00005	0.000500	0.00736
	WQ3	Surface		1/13/2013	-	-	-	1.70	1.80	0.0220	< 0.00005	0.00120	0.00462
	WQ3	Surface		2/12/2013	<0.0050	<0.0050	-	1.70	1.70	0.0290	< 0.00005	0.00110	0.00440
	WQ3	Surface		3/11/2013	<0.0050	<0.0050	-	1.40	1.40	0.0350	0.0000600	0.00120	0.00457
	WQ3	Surface		4/15/2013	<0.0050	<0.0050	<0.5	2.40	2.40	0.128	0.0000800	0.00230	0.0106
	WQ3	Surface		5/13/2013	-	-	-	11.9	11.9	0.201	0.0000700	0.000500	0.00379
	WQ3	Surface		5/22/2013	<0.0050	<0.0050	-	10.1	10.1	0.187	0.0000600	0.000600	0.00420
	WQ3	Surface		5/27/2013	<0.0050	<0.0050	-	11.4	11.4	0.171	0.0000700	0.000500	0.00378
	WQ3	Surface		6/6/2013	<0.0050	<0.0050	-	11.1	11.1	0.156	0.0000700	0.000500	0.00391
	WQ3	Surface		6/10/2013	-	-	-	7.60	8.00	0.116	0.0000900	0.000300	0.00449
	WQ3	Surface		6/17/2013	<0.0050	<0.0050	-	9.10	9.10	0.117	0.0000800	0.000500	0.00498
	WQ3	Surface	Dup	4/13/2014	<0.0050	<0.0050	-	2.70	2.70	0.0220	<0.00005	0.000900	0.00429
	WQ3	Surface		4/13/2014	<0.0050	<0.0050	-	0.900	2.10	0.0240	< 0.00005	0.000900	0.00433
	WQ3	Surface		7/2/2014	<0.0050	<0.0050	-	3.90	4.30	0.0590	<0.00005	0.00100	0.00453
	WQ3	Surface		9/24/2014	<0.0050	<0.0050	-	2.20	2.20	0.0400	<0.00005	0.00140	0.00576
	WQ3	Surface		12/9/2014	<0.0050	<0.0050	-	1.30	1.40	0.0100	0.0000600	0.00120	0.00512
L1926080-7	WQ3	Surface		5/11/2017	<0.0050	<0.0050	<0.50	13.0	13.5	0.434	<0.00010	0.00111	0.00808
L1962414-1	WQ3	Surface		7/19/2017	<0.0050	<0.0050	<0.50	7.66	7.86	0.106	0.000120	0.000930	0.00451
L1988190-1	WQ3	Surface		9/6/2017	<0.0050	<0.0050	<0.50	11.3	11.6	0.113	<0.00010	0.00175	0.00677
L2010514-1	WQ3	Surface		10/18/2017	<0.0050	<0.0050	<0.50	10.4	11.4	0.586	<0.00010	0.00188	0.0105
L2060442-1	WQ3	Surface		2/23/2018	<0.0050	<0.0050	<0.50	2.35	2.20	0.0329	0.000130	0.00111	0.00488
L2103632-1	WQ3	Surface		5/29/2018	<0.0050	<0.0050	<0.50	9.77	9.64	0.0833	<0.00010	0.00104	0.00378
L2143640-2	WQ3	Surface		8/7/2018	<0.0050	<0.0050	<0.50	6.56	6.40	0.0595	<0.00010	0.00240	0.00590
L2204508-2	WQ3	Surface		11/29/2018	<0.0050	<0.0050	<0.50	5.19	5.33	0.0573	<0.00010	0.00121	0.00452
L2232772-1	WQ3	Surface		2/12/2019	<0.0050	<0.0050	<0.50	2.77	2.55	0.0457	<0.00010	0.00111	0.00468
L2273497-2	WQ3	Surface		5/13/2019	<0.0050	<0.0050	0.260	9.06	9.65	0.104	<0.00010	0.000870	0.00407
L2328474-1	WQ3	Surface		8/12/2019	<0.0050	<0.0050	<0.50	9.02	8.92	0.0775	<0.00010	0.00118	0.00523
L2385426-1	WQ3	Surface		11/18/2019	<0.0050	<0.0050	<0.50	8.96	9.11	0.129	0.000170	0.000860	0.00349
VA20A1830-002	WQ3	Surface		2/12/2020	<0.0050	<0.0050	<0.50	2.46	2.76	0.0458	<0.00010	0.000990	0.00401
VA20A6574-001	WQ3	Surface		5/14/2020	<0.0050	<0.0050	<0.50	11.0	11.8	0.160	<0.00010	0.000680	0.00401
VA20B2692-002	WQ3	Surface		8/12/2020	<0.0050	<0.0050	<0.50	3.78	3.97	0.0284	<0.00010	0.00144	0.00466
VA20C1166-001	WQ3	Surface		11/17/2020	<0.0050	<0.0050	<0.50	7.59	7.61	0.146	<0.00010	0.000880	0.00436
L2239149-1	WQ30	Surface		2/28/2019	<0.0050	<0.0050	<0.50	7.20	6.62	0.0167	<0.00010	0.000610	0.00848
L2278768-2	WQ30	Surface		5/22/2019	<0.0050	<0.0050	0.300	12.9	13.1	0.236	<0.00010	0.000670	0.00973

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Cyanides			Organic / Inorganic Carbon		Total Metals			
					Cyanide, Total	Cyanide, Weak Acid Diss	Thiocyanate	Dissolved Organic	Total Organic	Aluminum (Al)-Total	Antimony (Sb)-Total	Arsenic (As)-Total	Barium (Ba)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2325935-1	WQ30	Surface		8/7/2019	<0.0050	<0.0050	<0.50	10.3	10.3	0.0342	<0.00010	0.000720	0.00771
L2385426-3	WQ30	Surface		11/18/2019	<0.0050	<0.0050	<0.50	9.41	9.79	0.0730	<0.00010	0.000630	0.00712
VA20A1056-002	WQ30	Surface		1/28/2020	<0.0050	<0.0050	<0.50	6.74	7.78	0.0402	<0.00010	0.000650	0.00908
VA20A1776-002	WQ30	Surface		2/2/2020	<0.0050	<0.0050	<0.50	7.57	7.05	0.0323	<0.00010	0.000610	0.00801
VA20A3580-002	WQ30	Surface		3/17/2020	<0.0050	<0.0050	<0.50	6.50	7.39	0.0315	<0.00010	0.000580	0.00859
VA20A4424-002	WQ30	Surface		4/2/2020	<0.0050	<0.0050	<0.50	6.93	6.93	0.0357	<0.00010	0.000640	0.00907
VA20A6114-002	WQ30	Surface		5/6/2020	<0.0050	<0.0050	<0.50	10.4	10.9	0.0866	<0.00010	0.000510	0.00820
VA20A6503-005	WQ30	Surface	Dup	5/13/2020	<0.0050	<0.0050	<0.50	10.7	12.3	0.0796	<0.00010	0.000510	0.00717
VA20A6503-002	WQ30	Surface		5/13/2020	<0.0050	<0.0050	<0.50	10.8	11.1	0.0896	<0.00010	0.000500	0.00754
VA20A6869-005	WQ30	Surface		5/20/2020	<0.0050	<0.0050	<0.50	11.6	11.0	0.0900	<0.00010	0.000490	0.00752
VA20A7367-005	WQ30	Surface		5/28/2020	<0.0050	<0.0050	<0.50	9.97	10.2	0.0950	<0.00010	0.000600	0.00782
VA20A7797-002	WQ30	Surface		6/3/2020	<0.0050	<0.0050	<0.50	8.94	8.98	0.110	<0.00010	0.000660	0.00814
VA20B0021-002	WQ30	Surface		7/7/2020	<0.0050	<0.0050	<2.50	10.7	13.0	0.0708	<0.00010	0.000740	0.00876
VA20B2012-002	WQ30	Surface		8/4/2020	<0.0050	<0.0050	<0.50	8.30	8.98	0.0325	<0.00010	0.000860	0.00826
VA20B2542-002	WQ30	Surface		8/11/2020	<0.0050	<0.0050	<0.50	8.25	8.30	0.0257	<0.00010	0.000820	0.00825
VA20B3033-002	WQ30	Surface		8/17/2020	<0.0050	<0.0050	<0.50	7.97	8.85	0.0331	<0.00010	0.000800	0.00903
VA20B3860-006	WQ30	Surface	Dup	8/26/2020	<0.0050	<0.0050	<0.50	8.36	8.74	0.0183	<0.00010	0.000830	0.00880
VA20B3860-002	WQ30	Surface		8/26/2020	<0.0050	<0.0050	<0.50	8.47	9.70	0.0245	<0.00010	0.000890	0.00905
VA20B4443-002	WQ30	Surface		9/2/2020	<0.0050	<0.0050	<0.50	7.76	8.77	0.0148	<0.00010	0.000770	0.00841
VA20B7828-002	WQ30	Surface		10/8/2020	<0.0050	<0.0050	<0.50	7.29	7.15	0.0301	<0.00010	0.000820	0.00888
VA20B9945-002	WQ30	Surface		11/2/2020	<0.0050	<0.0050	<0.50	14.3	15.6	0.190	<0.00010	0.000590	0.00899
VA20A0688-001	WQ31	Surface		1/21/2020	<0.0050	<0.0050	<0.50	7.94	7.40	0.131	<0.00010	0.000190	0.00675
VA20A1887-003	WQ31	Surface		2/13/2020	<0.0050	<0.0050	<0.50	5.21	5.56	0.0902	<0.00010	0.000210	0.00682
VA20A3516-005	WQ31	Surface		3/16/2020	<0.0050	<0.0050	<0.50	4.72	4.53	0.0702	<0.00010	0.000220	0.00717
VA20A4369-004	WQ31	Surface		4/1/2020	<0.0050	<0.0050	<0.50	3.86	4.02	0.0550	<0.00010	0.000200	0.00735
VA20A6356-005	WQ31	Surface		5/11/2020	<0.0050	<0.0050	0.520	16.4	16.2	0.339	<0.00010	0.000180	0.00683
VA20A7672-005	WQ31	Surface	Dup	6/2/2020	<0.0050	<0.0050	<0.50	11.4	11.5	0.188	<0.00010	0.000210	0.00580
VA20A7672-001	WQ31	Surface		6/2/2020	<0.0050	<0.0050	<0.50	10.9	11.4	0.182	<0.00010	0.000180	0.00551
VA20A9918-004	WQ31	Surface		7/6/2020	<0.0050	<0.0050	<0.50	11.1	11.3	0.204	<0.00010	0.000180	0.00627
VA20B2426-002	WQ31	Surface		8/10/2020	<0.0050	<0.0050	<0.50	8.38	8.53	0.141	<0.00010	0.000230	0.00684
VA20B4313-004	WQ31	Surface	Dup	9/1/2020	<0.0050	<0.0050	<0.50	7.48	7.85	0.114	<0.00010	0.000240	0.00738
VA20B4313-002	WQ31	Surface		9/1/2020	<0.0050	<0.0050	<0.50	7.59	7.81	0.107	<0.00010	0.000220	0.00727
VA20B7624-005	WQ31	Surface		10/6/2020	<0.0050	<0.0050	<0.50	6.80	6.52	0.0862	<0.00010	0.000220	0.00789
VA20C0197-001	WQ31	Surface		11/4/2020	<0.0050	<0.0050	<0.50	15.2	14.6	0.340	<0.00010	0.000230	0.00739
	WQ4	Surface		5/17/2011	0.0102	<0.0050	-	17.9	14.2	0.246	0.0000900	0.00100	0.00348
	WQ4	Surface		5/24/2011	0.0111	<0.0050	-	18.6	16.0	0.239	0.000110	0.00120	0.00280
	WQ4	Surface		5/30/2011	-	-	-	14.1	13.3	0.235	0.000120	0.00140	0.00243
	WQ4	Surface		6/6/2011	0.00850	<0.0050	-	11.5	12.5	0.177	0.000110	0.00130	0.00203
	WQ4	Surface		6/13/2011	<0.0050	<0.0050	-	10.1	10.5	0.147	0.000140	0.00130	0.00199
	WQ4	Surface		7/18/2011	<0.0050	<0.0050	0.550	9.90	9.90	0.175	0.000140	0.00130	0.00260
	WQ4	Surface		8/15/2011	<0.0050	<0.0050	-	6.40	6.80	0.313	0.000100	0.00200	0.00376
	WQ4	Surface		9/19/2011	<0.0050	<0.0050	-	4.90	4.90	0.0920	0.0000900	0.00120	0.00222
	WQ4	Surface		10/17/2011	<0.0050	<0.0050	-	4.30	4.60	0.0740	0.0000800	0.000900	0.00200
	WQ4	Surface		11/14/2011	<0.0050	<0.0050	-	4.20	4.20	0.206	0.0000800	0.00190	0.00310

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Cyanides			Organic / Inorganic Carbon		Total Metals			
					Cyanide, Total	Cyanide, Weak Acid Diss	Thiocyanate	Dissolved Organic	Total Organic	Aluminum (Al)-Total	Antimony (Sb)-Total	Arsenic (As)-Total	Barium (Ba)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ4	Surface	Dup	5/15/2012	<0.0050	<0.0050	-	16.3	16.4	0.899	0.000210	0.00230	0.0108
	WQ4	Surface		5/15/2012	<0.0050	<0.0050	-	16.4	16.5	0.885	0.000210	0.00230	0.00839
	WQ4	Surface		5/23/2012	-	-	-	14.3	14.5	0.644	0.000170	0.00230	0.00572
	WQ4	Surface		5/28/2012	<0.0050	<0.0050	-	12.0	12.0	0.306	0.000140	0.00140	0.00298
	WQ4	Surface		6/4/2012	<0.0050	<0.0050	-	10.8	10.9	0.187	0.000150	0.00150	0.00292
	WQ4	Surface		6/11/2012	<0.0050	<0.0050	-	10.5	10.6	0.154	0.000150	0.00130	0.00256
	WQ4	Surface		6/18/2012	<0.0050	<0.0050	-	9.70	10.1	0.126	0.000100	0.00120	0.00228
	WQ4	Surface		7/16/2012	<0.0050	<0.0050	-	7.20	7.60	0.156	0.000150	0.00150	0.00323
	WQ4	Surface		8/13/2012	<0.0050	<0.0050	-	7.00	7.00	0.125	0.000140	0.00150	0.00329
	WQ4	Surface		9/17/2012	<0.0050	<0.0050	-	9.70	9.70	0.0530	0.000140	0.00120	0.00232
	WQ4	Surface		10/16/2012	<0.0050	<0.0050	<0.5	17.8	18.5	1.19	0.000410	0.00690	0.0138
	WQ4	Surface		11/12/2012	<0.0050	<0.0050	-	4.90	6.70	0.0940	0.000250	0.00110	0.00384
	WQ4	Surface		12/10/2012	<0.0050	<0.0050	-	7.50	8.40	0.416	0.000270	0.00420	0.00856
	WQ4	Surface		5/14/2013	<0.0050	<0.0050	-	11.7	11.9	0.304	0.000210	0.00190	0.00373
	WQ4	Surface		5/21/2013	<0.0050	<0.0050	-	10.6	10.6	0.191	0.000210	0.00200	0.00337
	WQ4	Surface		5/28/2013	<0.0050	<0.0050	-	11.8	12.0	0.202	0.000190	0.00190	0.00330
	WQ4	Surface		6/4/2013	<0.0050	<0.0050	-	11.1	11.1	0.143	0.000200	0.00200	0.00318
	WQ4	Surface		6/11/2013	<0.0050	<0.0050	-	9.40	9.40	0.0990	0.000200	0.00150	0.00334
	WQ4	Surface		6/18/2013	<0.0050	<0.0050	-	10.4	10.4	0.124	0.000210	0.00170	0.00370
L1925102-1	WQ4	Surface		5/9/2017	<0.0050	<0.0050	<0.50	18.9	20.8	0.366	0.000130	0.00228	0.00580
L1961670-1	WQ4	Surface		7/18/2017	<0.0050	<0.0050	<0.50	6.91	5.84	0.0688	0.000140	0.00102	0.00347
L2011329-1	WQ4	Surface		10/19/2017	<0.0050	<0.0050	<0.50	7.63	7.79	0.0626	0.000200	0.00134	0.00413
L2060101-1	WQ4	Surface		2/22/2018	<0.0050	<0.0050	<0.50	3.02	3.44	0.146	0.000160	0.00138	0.00539
L2102737-1	WQ4	Surface		5/28/2018	<0.0050	<0.0050	0.740	10.2	10.2	0.151	0.000160	0.00106	0.00314
L2144658-3	WQ4	Surface		8/8/2018	<0.0050	<0.0050	<0.50	8.85	8.76	0.0867	0.000140	0.00125	0.00364
L2204086-2	WQ4	Surface		11/28/2018	<0.0050	<0.0050	<0.50	7.01	7.08	0.108	0.000110	0.000740	0.00259
L2233329-1	WQ4	Surface		2/13/2019	<0.0050	<0.0050	<0.50	4.82	5.75	0.210	<0.00010	0.00109	0.00438
L2275791-2	WQ4	Surface	Dup	5/16/2019	<0.0050	<0.0050	0.350	10.8	10.7	0.128	0.000190	0.00115	0.00318
L2275791-1	WQ4	Surface		5/16/2019	<0.0050	<0.0050	0.320	10.8	10.8	0.135	0.000180	0.00110	0.00324
L2329543-1	WQ4	Surface		8/13/2019	<0.0050	<0.0050	<0.50	7.92	8.00	0.0692	0.000170	0.00151	0.00383
L2378996-2	WQ4	Surface		11/5/2019	<0.0050	<0.0050	<0.50	6.77	6.76	0.0961	0.000210	0.00134	0.00315
VA20A2211-002	WQ4	Surface		2/20/2020	<0.0050	<0.0050	<0.50	3.04	3.12	0.0875	0.000180	0.00141	0.00429
VA20A6810-002	WQ4	Surface		5/19/2020	<0.0050	<0.0050	<0.50	11.3	11.8	0.136	0.000150	0.00112	0.00239
VA20B2212-003	WQ4	Surface		8/6/2020	<0.0050	<0.0050	<0.50	6.05	6.36	0.111	0.000190	0.00179	0.00395
VA20C1415-002	WQ4	Surface		11/19/2020	<0.0050	<0.0050	<0.50	7.17	7.33	0.0963	0.000140	0.00102	0.00260
	WQ5	Surface	Dup	5/17/2011	0.0161	<0.0050	-	21.7	20.5	0.581	< 0.00005	0.000500	0.00628
	WQ5	Surface		5/17/2011	0.0180	<0.0050	-	22.1	20.4	0.596	< 0.00005	0.000500	0.00627
	WQ5	Surface		5/25/2011	0.0127	<0.0050	-	16.5	14.1	0.327	< 0.00005	0.000300	0.00355
	WQ5	Surface		5/31/2011	-	-	-	12.7	22.8	0.287	< 0.00005	0.000300	0.00308
	WQ5	Surface		6/7/2011	0.00920	<0.0050	-	11.6	12.8	0.258	< 0.00005	0.000400	0.00295
	WQ5	Surface		6/14/2011	<0.0050	<0.0050	-	10.8	11.1	0.226	< 0.00005	0.000400	0.00279
	WQ5	Surface		7/19/2011	<0.0050	<0.0050	0.670	11.3	11.4	0.189	< 0.00005	0.000500	0.00365
	WQ5	Surface		8/16/2011	<0.0050	<0.0050	-	7.40	7.40	0.0870	< 0.00005	0.000400	0.00331
	WQ5	Surface		9/20/2011	<0.0050	<0.0050	-	5.20	5.20	0.0560	< 0.00005	0.000300	0.00487

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LabID	Site	Depth	QAQC	Date	Cyanides			Organic / Inorganic Carbon		Total Metals			
					Cyanide, Total	Cyanide, Weak Acid Diss	Thiocyanate	Dissolved Organic	Total Organic	Aluminum (Al)-Total	Antimony (Sb)-Total	Arsenic (As)-Total	Barium (Ba)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ5	Surface		10/18/2011	<0.0050	<0.0050	-	7.30	7.30	0.0740	< 0.00005	0.000400	0.00375
	WQ5	Surface		11/15/2011	<0.0050	<0.0050	-	7.90	7.90	0.0670	< 0.00005	0.000400	0.00386
	WQ5	Surface		12/12/2011	<0.0050	<0.0050	-	8.00	8.00	0.100	< 0.00005	0.000300	0.00509
	WQ5	Surface		5/14/2012	<0.0050	<0.0050	-	13.3	13.4	0.336	< 0.00005	0.000400	0.00601
	WQ5	Surface		5/22/2012	<0.0050	<0.0050	-	12.5	12.5	0.313	< 0.00005	0.000300	0.00381
	WQ5	Surface		5/29/2012	<0.0050	<0.0050	-	11.9	11.9	0.199	< 0.00005	0.000300	0.00273
	WQ5	Surface		6/5/2012	<0.0050	<0.0050	-	11.6	11.9	0.171	< 0.00005	0.000400	0.00308
	WQ5	Surface		6/12/2012	<0.0050	<0.0050	-	10.7	10.8	0.173	< 0.00005	0.000300	0.00294
	WQ5	Surface		6/19/2012	<0.0050	<0.0050	-	10.5	10.6	0.167	< 0.00005	0.000400	0.00284
	WQ5	Surface		7/17/2012	<0.0050	<0.0050	-	7.40	7.80	0.0830	< 0.00005	0.000300	0.00387
	WQ5	Surface		8/14/2012	<0.0050	<0.0050	-	6.90	7.40	0.0570	< 0.00005	0.000400	0.00380
	WQ5	Surface		9/18/2012	<0.0050	<0.0050	-	12.0	12.0	0.0520	< 0.00005	0.000300	0.00426
	WQ5	Surface		10/15/2012	<0.0050	<0.0050	-	8.10	13.2	0.0380	< 0.00005	0.000300	0.00506
	WQ5	Surface		11/13/2012	<0.0050	<0.0050	-	8.70	8.70	0.0680	< 0.00005	0.000300	0.00433
	WQ5	Surface		1/13/2013	-	-	-	6.90	7.00	0.0570	0.0000500	0.000300	0.00691
	WQ5	Surface		4/15/2013	<0.0050	<0.0050	<0.5	11.0	11.0	0.167	< 0.00005	0.00170	0.0103
	WQ5	Surface		5/13/2013	<0.0050	<0.0050	-	13.4	13.4	0.258	< 0.00005	0.000300	0.00298
	WQ5	Surface		5/22/2013	<0.0050	<0.0050	-	12.8	12.8	0.242	< 0.00005	0.000400	0.00294
	WQ5	Surface		5/27/2013	<0.0050	<0.0050	-	14.0	14.0	0.268	< 0.00005	0.000300	0.00297
	WQ5	Surface		6/6/2013	<0.0050	<0.0050	-	13.4	13.4	0.235	< 0.00005	0.000300	0.00338
	WQ5	Surface		6/10/2013	-	-	-	11.1	11.2	0.191	< 0.00005	< 0.0001	0.00313
	WQ5	Surface		6/17/2013	<0.0050	<0.0050	-	12.3	12.6	0.194	0.0000500	0.000300	0.00325
	WQ5	Surface		4/13/2014	<0.0050	<0.0050	-	9.60	9.70	0.104	<0.00005	0.000100	0.00457
	WQ5	Surface		7/2/2014	<0.0050	<0.0050	-	8.40	8.40	0.0840	<0.00005	0.000400	0.00342
	WQ5	Surface		9/24/2014	<0.0050	<0.0050	-	5.00	5.40	0.0240	<0.00005	0.000400	0.00751
	WQ5	Surface		12/8/2014	<0.0050	<0.0050	-	5.30	5.30	0.0420	<0.00005	0.000300	0.00519
L1812856-8	WQ5	Surface		8/10/2016	<0.0050	<0.0050	-	8.87	8.62	0.0819	<0.00010	0.000530	0.00413
L1815654-8	WQ5	Surface	Dup	8/16/2016	<0.0050	<0.0050	-	7.49	7.58	0.0684	<0.00010	0.000460	0.00439
L1815654-6	WQ5	Surface		8/16/2016	<0.0050	<0.0050	-	7.43	7.93	0.0682	<0.00010	0.000490	0.00442
L1819041-9	WQ5	Surface		8/23/2016	<0.0050	<0.0050	-	6.57	6.58	0.0611	<0.00010	0.000460	0.00458
L1823224-1	WQ5	Surface	Dup	8/31/2016	<0.0050	<0.0050	-	8.11	8.06	0.0767	<0.00010	0.000630	0.00397
L1823224-8	WQ5	Surface		8/31/2016	<0.0050	<0.0050	-	8.06	8.40	0.0815	<0.00010	0.000650	0.00419
L1826303-4	WQ5	Surface		9/7/2016	<0.0050	<0.0050	-	11.4	11.1	0.0939	<0.00010	0.000570	0.00372
L1925486-4	WQ5	Surface		5/10/2017	<0.0050	<0.0050	<0.50	15.2	15.7	0.397	<0.00010	0.000850	0.00619
L1962414-2	WQ5	Surface		7/19/2017	<0.0050	<0.0050	<0.50	6.96	6.68	0.0529	<0.00010	0.000400	0.00396
L1988190-2	WQ5	Surface		9/6/2017	<0.0050	<0.0050	<0.50	9.46	9.62	0.123	<0.00010	0.00205	0.00609
L2010514-2	WQ5	Surface		10/18/2017	<0.0050	<0.0050	<0.50	10.7	11.2	0.159	0.000100	0.000590	0.00345
L2060442-2	WQ5	Surface		2/23/2018	<0.0050	<0.0050	<0.50	4.15	4.51	0.0399	<0.00010	0.000620	0.00715
L2103632-2	WQ5	Surface		5/29/2018	<0.0050	<0.0050	0.520	10.7	11.0	0.123	<0.00010	0.000930	0.00359
L2143640-1	WQ5	Surface		8/7/2018	<0.0050	<0.0050	<0.50	7.60	7.61	0.0593	<0.00010	0.00196	0.00529
L2204508-1	WQ5	Surface		11/29/2018	<0.0050	<0.0050	<0.50	8.00	8.00	0.0856	<0.00010	0.000940	0.00411
L2232772-2	WQ5	Surface		2/12/2019	<0.0050	<0.0050	<0.50	3.17	4.96	0.0421	<0.00010	0.000880	0.00454
L2273497-3	WQ5	Surface		5/13/2019	<0.0050	<0.0050	0.340	12.7	13.2	0.265	<0.00010	0.000750	0.00444
L2328474-2	WQ5	Surface		8/12/2019	<0.0050	<0.0050	<0.50	11.8	11.7	0.158	<0.00010	0.000970	0.00420

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Cyanides			Organic / Inorganic Carbon		Total Metals			
					Cyanide, Total	Cyanide, Weak Acid Diss	Thiocyanate	Dissolved Organic	Total Organic	Aluminum (Al)-Total	Antimony (Sb)-Total	Arsenic (As)-Total	Barium (Ba)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2385426-2	WQ5	Surface		11/18/2019	<0.0050	<0.0050	0.550	13.5	14.2	0.264	<0.00010	0.000690	0.00345
VA20A1830-001	WQ5	Surface		2/12/2020	<0.0050	<0.0050	<0.50	3.72	4.24	0.0514	<0.00010	0.000840	0.00388
VA20A6574-002	WQ5	Surface		5/14/2020	<0.0050	<0.0050	<0.50	12.1	12.8	0.256	<0.00010	0.000560	0.00356
VA20B2692-001	WQ5	Surface		8/12/2020	<0.0050	<0.0050	<0.50	4.68	4.74	0.0408	<0.00010	0.00131	0.00459
VA20C1166-002	WQ5	Surface		11/17/2020	<0.0050	<0.0050	<0.50	8.29	8.23	0.147	<0.00010	0.000830	0.00402
	WQ6	Surface		5/17/2011	0.0126	<0.0050	-	20.0	15.1	0.576	0.0000600	0.00110	0.0110
	WQ6	Surface		5/24/2011	0.0116	<0.0050	-	16.4	13.5	0.354	<0.00005	0.000600	0.00713
	WQ6	Surface		5/30/2011	-	-	-	11.9	20.7	0.282	0.0000500	0.000600	0.00587
	WQ6	Surface		6/6/2011	0.00630	<0.0050	-	8.30	9.00	0.180	0.0000800	0.000700	0.00450
	WQ6	Surface		6/13/2011	<0.0050	<0.0050	-	7.40	7.60	0.143	0.0000600	0.000800	0.00431
	WQ6	Surface		7/18/2011	<0.0050	<0.0050	<0.50	8.10	8.10	0.161	0.0000600	0.000800	0.00599
	WQ6	Surface	Dup	8/15/2011	-	-	-	5.10	5.10	0.0700	<0.00005	0.000800	0.00510
	WQ6	Surface		8/15/2011	<0.0050	<0.0050	-	5.10	5.90	0.0700	<0.00005	0.000800	0.00501
	WQ6	Surface		9/19/2011	<0.0050	<0.0050	-	3.40	3.40	0.0320	<0.00005	0.000600	0.00548
	WQ6	Surface		10/17/2011	<0.0050	<0.0050	-	4.00	4.10	0.0640	<0.00005	0.000500	0.00516
	WQ6	Surface		11/14/2011	<0.0050	<0.0050	-	4.00	4.00	0.0620	<0.00005	0.000600	0.00573
	WQ6	Surface		4/17/2012	<0.0050	<0.0050	-	4.90	4.90	0.252	0.0000500	0.000900	0.00929
	WQ6	Surface		5/15/2012	<0.0050	<0.0050	-	13.1	13.1	0.388	<0.00005	0.000700	0.00983
	WQ6	Surface		5/23/2012	-	-	-	11.3	11.5	0.262	<0.00005	0.000500	0.00648
	WQ6	Surface		5/28/2012	<0.0050	<0.0050	-	10.0	10.0	0.184	0.0000600	0.000700	0.00510
	WQ6	Surface		6/4/2012	<0.0050	<0.0050	-	7.70	8.10	0.119	0.0000700	0.000700	0.00451
	WQ6	Surface		6/11/2012	<0.0050	<0.0050	-	6.90	7.00	0.110	0.0000600	0.000700	0.00426
	WQ6	Surface		6/18/2012	<0.0050	<0.0050	-	6.40	6.60	0.104	<0.00005	0.000800	0.00395
	WQ6	Surface		7/16/2012	<0.0050	<0.0050	-	4.60	4.60	0.0590	<0.00005	0.000800	0.00480
	WQ6	Surface		8/13/2012	<0.0050	<0.0050	-	6.80	6.80	0.0700	<0.00005	0.000700	0.00597
	WQ6	Surface		9/17/2012	<0.0050	<0.0050	-	8.70	10.1	0.0440	<0.00005	0.000500	0.00564
	WQ6	Surface		10/16/2012	<0.0050	<0.0050	<0.5	6.30	7.70	0.0500	<0.00005	0.000500	0.00575
	WQ6	Surface		11/12/2012	<0.0050	<0.0050	-	3.50	3.60	0.0520	<0.00005	0.000400	0.00643
	WQ6	Surface		12/10/2012	<0.0050	<0.0050	-	2.90	2.90	0.0440	<0.00005	0.000500	0.00564
	WQ6	Surface		1/15/2013	-	-	-	3.30	3.30	0.0350	0.0000600	0.000400	0.00615
	WQ6	Surface		2/13/2013	<0.0050	<0.0050	-	2.60	2.60	0.0190	<0.00005	0.000300	0.00554
	WQ6	Surface		3/12/2013	<0.0050	<0.0050	-	2.80	2.80	0.0270	0.0000500	0.000300	0.00558
	WQ6	Surface		4/16/2013	<0.0050	<0.0050	<0.5	4.80	4.80	0.0800	<0.00005	0.000400	0.00682
	WQ6	Surface		5/14/2013	<0.0050	<0.0050	-	10.1	10.1	0.191	0.0000500	0.000700	0.00472
	WQ6	Surface		5/21/2013	<0.0050	<0.0050	-	7.80	7.80	0.153	0.0000600	0.000700	0.00487
	WQ6	Surface		5/28/2013	<0.0050	<0.0050	-	9.70	9.70	0.188	0.0000600	0.000700	0.00464
	WQ6	Surface		6/4/2013	<0.0050	<0.0050	-	8.00	8.00	0.134	0.0000600	0.000600	0.00484
	WQ6	Surface		6/11/2013	<0.0050	<0.0050	-	6.30	6.30	0.106	0.0000700	0.000400	0.00439
	WQ6	Surface		6/18/2013	<0.0050	<0.0050	-	7.30	7.30	0.116	0.0000700	0.000500	0.00513
	WQ7	Surface		4/19/2011	<0.0050	<0.0050	-	2.20	2.70	0.0110	<0.00005	<0.0002	0.00882
	WQ7	Surface		5/17/2011	0.0148	<0.0050	-	20.1	17.2	1.20	0.0000600	0.00120	0.0175
	WQ7	Surface		5/24/2011	0.0117	<0.0050	-	22.7	16.6	1.04	0.0000500	0.000900	0.0137
	WQ7	Surface		5/30/2011	-	-	-	15.0	15.4	0.755	0.0000600	0.000700	0.0111
	WQ7	Surface		6/6/2011	0.00970	<0.0050	-	11.0	12.4	0.676	0.0000500	0.000700	0.00927

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Cyanides			Organic / Inorganic Carbon		Total Metals			
					Cyanide, Total	Cyanide, Weak Acid Diss	Thiocyanate	Dissolved Organic	Total Organic	Aluminum (Al)-Total	Antimony (Sb)-Total	Arsenic (As)-Total	Barium (Ba)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ7	Surface		6/13/2011	<0.0050	<0.0050	-	9.20	9.40	0.284	< 0.00005	0.000500	0.00582
	WQ7	Surface		7/18/2011	<0.0050	<0.0050	0.670	10.9	10.9	0.266	< 0.00005	0.000600	0.00767
	WQ7	Surface		8/15/2011	<0.0050	<0.0050	-	5.80	5.80	0.121	< 0.00005	0.000600	0.00707
	WQ7	Surface	Dup	9/19/2011	<0.0050	<0.0050	-	3.70	3.70	0.0220	< 0.00005	0.000500	0.00857
	WQ7	Surface		9/19/2011	<0.0050	<0.0050	-	3.60	3.60	0.0220	< 0.00005	0.000500	0.00845
	WQ7	Surface	Dup	10/17/2011	<0.0050	<0.0050	-	4.80	4.80	0.0300	< 0.00005	0.000400	0.00671
	WQ7	Surface		10/17/2011	<0.0050	<0.0050	-	5.20	5.20	0.0310	< 0.00005	0.000400	0.00693
	WQ7	Surface		11/14/2011	<0.0050	<0.0050	-	4.00	4.00	0.0350	< 0.00005	0.000500	0.00747
	WQ7	Surface	Dup	12/13/2011	-	-	-	3.60	3.60	0.0520	< 0.00005	0.000500	0.00923
	WQ7	Surface		12/13/2011	<0.0050	<0.0050	-	3.40	3.70	0.229	< 0.00005	0.000600	0.0126
	WQ7	Surface		1/12/2012	-	-	<0.50	3.70	3.70	0.0250	< 0.00005	0.000400	0.00874
	WQ7	Surface	Dup	2/13/2012	<0.0050	<0.0050	-	2.20	2.20	0.0230	< 0.00005	0.000400	0.0109
	WQ7	Surface		2/13/2012	<0.0050	<0.0050	-	2.40	2.90	0.0500	< 0.00005	0.000500	0.0151
	WQ7	Surface		3/12/2012	<0.0050	<0.0050	-	2.10	2.10	0.0150	-	0.000400	0.0105
	WQ7	Surface	Dup	4/17/2012	<0.0050	<0.0050	-	13.0	13.3	0.0940	< 0.00005	0.000400	0.0101
	WQ7	Surface		4/17/2012	<0.0050	<0.0050	-	12.9	13.2	0.0910	< 0.00005	0.000400	0.0102
	WQ7	Surface		5/15/2012	<0.0050	<0.0050	-	13.5	13.5	0.516	< 0.00005	0.000800	0.0123
	WQ7	Surface		5/23/2012	-	-	-	12.6	12.6	0.617	0.0000500	0.000500	0.00923
	WQ7	Surface	Dup	5/28/2012	<0.0050	<0.0050	-	11.9	11.9	0.291	< 0.00005	0.000500	0.00701
	WQ7	Surface		5/28/2012	<0.0050	<0.0050	-	11.8	11.8	0.266	< 0.00005	0.000500	0.00668
	WQ7	Surface		6/4/2012	<0.0050	<0.0050	-	9.90	10.0	0.193	0.0000500	0.000500	0.00604
	WQ7	Surface		6/11/2012	<0.0050	<0.0050	-	8.90	8.90	0.197	< 0.00005	0.000300	0.00556
	WQ7	Surface		6/18/2012	<0.0050	<0.0050	-	8.20	8.20	0.334	0.000890	0.000500	0.00731
	WQ7	Surface	Dup	7/16/2012	<0.0050	<0.0050	-	5.60	5.70	0.0520	< 0.00005	0.000500	0.00719
	WQ7	Surface		7/16/2012	<0.0050	<0.0050	-	5.30	5.50	0.0510	< 0.00005	0.000600	0.00725
	WQ7	Surface	Dup	8/13/2012	<0.0050	<0.0050	-	5.50	5.70	0.0400	< 0.00005	0.000600	0.00804
	WQ7	Surface		8/13/2012	<0.0050	<0.0050	-	5.40	5.40	0.0520	< 0.00005	0.000600	0.00821
	WQ7	Surface		9/17/2012	<0.0050	<0.0050	-	11.9	14.1	0.0250	< 0.00005	0.000500	0.00825
	WQ7	Surface		10/16/2012	<0.0050	<0.0050	<0.5	9.20	10.6	0.0170	< 0.00005	0.000500	0.00895
	WQ7	Surface	Dup	11/12/2012	<0.0050	<0.0050	-	3.80	3.80	0.0210	< 0.00005	0.000300	0.00887
	WQ7	Surface		11/12/2012	<0.0050	<0.0050	-	3.70	3.80	0.0300	< 0.00005	0.000300	0.00873
	WQ7	Surface		12/10/2012	<0.0050	<0.0050	-	2.80	2.80	0.0130	< 0.00005	0.000400	0.00852
	WQ7	Surface	Dup	1/15/2013	-	-	-	3.00	3.20	0.0260	< 0.00005	0.000400	0.0114
	WQ7	Surface		1/15/2013	-	-	-	2.90	2.90	0.0650	< 0.00005	0.000400	0.0121
	WQ7	Surface	Dup	2/13/2013	<0.0050	<0.0050	-	3.40	3.40	0.0100	< 0.00005	0.000300	0.00813
	WQ7	Surface		2/13/2013	<0.0050	<0.0050	-	3.10	3.10	0.0390	< 0.00005	0.000300	0.00903
	WQ7	Surface		3/12/2013	<0.0050	<0.0050	-	2.20	2.20	0.0120	< 0.00005	0.000400	0.00858
	WQ7	Surface	Dup	4/16/2013	<0.0050	<0.0050	<0.5	7.20	7.20	0.0300	< 0.00005	0.000400	0.00840
	WQ7	Surface		4/16/2013	<0.0050	<0.0050	<0.5	7.10	7.10	0.0350	< 0.00005	0.000400	0.00857
	WQ7	Surface		5/14/2013	<0.0050	<0.0050	-	11.8	11.8	0.408	< 0.00005	0.000500	0.00660
	WQ7	Surface		5/21/2013	<0.0050	<0.0050	-	9.40	9.40	0.219	< 0.00005	0.000500	0.00587
	WQ7	Surface		5/28/2013	<0.0050	<0.0050	-	10.3	10.3	0.336	< 0.00005	0.000500	0.00567
	WQ7	Surface	Dup	6/4/2013	<0.0050	<0.0050	-	10.5	10.5	0.185	< 0.00005	0.000400	0.00582
	WQ7	Surface		6/4/2013	<0.0050	<0.0050	-	10.4	10.4	0.194	< 0.00005	0.000400	0.00581

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Cyanides			Organic / Inorganic Carbon		Total Metals			
					Cyanide, Total	Cyanide, Weak Acid Diss	Thiocyanate	Dissolved Organic	Total Organic	Aluminum (Al)-Total	Antimony (Sb)-Total	Arsenic (As)-Total	Barium (Ba)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ7	Surface		6/11/2013	<0.0050	<0.0050	-	8.00	8.00	0.123	0.0000600	0.000100	0.00585
	WQ7	Surface	Dup	6/18/2013	<0.0050	<0.0050	-	10.7	10.7	0.150	0.0000700	0.000300	0.00670
	WQ7	Surface		6/18/2013	<0.0050	<0.0050	-	10.7	10.7	0.142	0.0000500	0.000300	0.00646
	WQ7	Surface		4/13/2014	<0.0050	<0.0050	-	6.70	6.90	0.484	<0.00005	0.00140	0.0171
	WQ7	Surface		7/2/2014	<0.0050	<0.0050	-	6.30	6.30	0.0430	<0.00005	0.000500	0.00691
	WQ7	Surface		9/24/2014	<0.0050	<0.0050	-	2.70	2.70	0.0230	<0.00005	0.000600	0.0105
	WQ7	Surface		12/9/2014	<0.0050	<0.0050	-	1.80	2.10	0.0100	<0.00005	0.000500	0.00855
L1812856-9	WQ7	Surface		8/10/2016	<0.0050	<0.0050	-	6.58	6.58	0.0522	<0.00010	0.000660	0.00789
L1815654-9	WQ7	Surface		8/16/2016	<0.0050	<0.0050	-	5.37	5.32	0.0404	<0.00010	0.000620	0.00813
L1819041-2	WQ7	Surface		8/23/2016	<0.0050	<0.0050	-	5.30	5.67	0.0398	<0.00010	0.000680	0.00849
L1823224-2	WQ7	Surface		8/31/2016	<0.0050	<0.0050	-	5.65	5.66	0.0339	<0.00010	0.000630	0.00810
L1826303-7	WQ7	Surface		9/7/2016	<0.0050	<0.0050	-	7.06	7.18	0.0353	<0.00010	0.000610	0.00725
L1913531-3	WQ7	Surface		4/12/2017	<0.0050	<0.0050	<0.50	<0.50	<0.50	0.0285	<0.00010	0.000480	0.00818
L1926080-8	WQ7	Surface	Dup	5/11/2017	<0.0050	<0.0050	<0.50	14.9	15.3	0.488	<0.00010	0.000670	0.00960
L1926080-4	WQ7	Surface		5/11/2017	<0.0050	<0.0050	<0.50	14.8	15.3	0.463	<0.00010	0.000680	0.00955
L1939712-7	WQ7	Surface		6/7/2017	<0.0050	<0.0050	<0.50	9.93	10.4	0.215	<0.00010	0.000570	0.00579
L1962414-3	WQ7	Surface		7/19/2017	<0.0050	<0.0050	<0.50	4.33	4.19	0.0415	<0.00010	0.000570	0.00775
L1984944-5	WQ7	Surface		8/30/2017	<0.0050	<0.0050	<0.50	3.25	3.36	0.0132	<0.00010	0.000700	0.0105
L1988832-4	WQ7	Surface		9/9/2017	<0.0050	<0.0050	<0.50	3.58	3.55	0.0153	<0.00010	0.000680	0.0106
L2009845-2	WQ7	Surface		10/17/2017	<0.0050	<0.0050	<0.50	4.66	5.28	0.343	<0.00010	0.00116	0.0123
L2020333-6	WQ7	Surface	Dup	11/7/2017	<0.0050	<0.0050	<0.50	6.70	6.81	0.0657	<0.00010	0.000480	0.00643
L2020333-2	WQ7	Surface		11/7/2017	<0.0050	<0.0050	<0.50	6.72	6.95	0.0611	<0.00010	0.000510	0.00669
L2034610-2	WQ7	Surface		12/11/2017	<0.0050	<0.0050	<0.50	4.62	4.62	0.0361	<0.00010	0.000460	0.00718
L2049678-1	WQ7	Surface		1/24/2018	<0.0050	<0.0050	<0.50	2.80	2.89	0.0206	<0.00010	0.000490	0.00776
L2062480-2	WQ7	Surface		2/28/2018	<0.0050	<0.0050	<0.50	2.38	2.32	0.0161	<0.00010	0.000460	0.00731
L2074294-1	WQ7	Surface		3/28/2018	<0.0050	<0.0050	<0.50	2.46	2.62	0.0237	<0.00010	<0.00070	0.00845
L2081503-1	WQ7	Surface		4/17/2018	<0.0050	<0.0050	<0.50	3.22	3.19	0.0228	<0.00010	0.000500	0.00881
L2097084-8	WQ7	Surface	Dup	5/16/2018	<0.0050	<0.0050	<0.50	13.8	13.9	1.20	<0.00010	0.000960	0.0157
L2097084-1	WQ7	Surface		5/16/2018	<0.0050	<0.0050	<0.50	12.3	13.7	1.16	<0.00010	0.000940	0.0146
L2104479-1	WQ7	Surface		5/30/2018	<0.0050	<0.0050	<0.50	8.61	8.93	0.163	<0.00010	0.000590	0.00567
L2132128-7	WQ7	Surface	Dup	7/17/2018	<0.0050	<0.0050	<0.50	4.83	4.78	0.0461	<0.00010	0.000560	0.00816
L2132128-1	WQ7	Surface		7/17/2018	<0.0050	<0.0050	<0.50	4.73	5.22	0.0469	<0.00010	0.000580	0.00853
L2144782-2	WQ7	Surface		8/9/2018	<0.0050	<0.0050	<0.50	4.32	4.49	0.0329	<0.00010	0.000630	0.00885
L2164448-4	WQ7	Surface	Dup	9/12/2018	<0.0050	<0.0050	<0.50	2.90	3.19	0.0662	<0.00010	0.000630	0.00970
L2164448-3	WQ7	Surface		9/12/2018	<0.0050	<0.0050	<0.50	2.98	3.13	0.0476	<0.00010	0.000620	0.00897
L2187638-4	WQ7	Surface	Dup	10/24/2018	<0.0050	<0.0050	<0.50	4.45	4.10	0.0254	<0.00010	0.000500	0.00719
L2187638-3	WQ7	Surface		10/24/2018	<0.0050	<0.0050	<0.50	4.39	4.37	0.0215	<0.00010	0.000480	0.00671
L2203408-2	WQ7	Surface		11/27/2018	<0.0050	<0.0050	<0.50	5.41	5.44	0.0787	<0.00010	0.000560	0.00655
L2213684-1	WQ7	Surface		12/19/2018	<0.0050	<0.0050	<0.50	3.59	4.05	0.0349	<0.00010	0.000480	0.00708
L2227101-6	WQ7	Surface	Dup	1/29/2019	<0.0050	<0.0050	<0.50	2.84	2.86	0.0220	<0.00010	0.000460	0.00739
L2227101-1	WQ7	Surface		1/29/2019	<0.0050	<0.0050	<0.50	2.91	2.83	0.0249	<0.00010	0.000480	0.00835
L2232050-4	WQ7	Surface		2/11/2019	<0.0050	<0.0050	<0.50	2.43	2.62	0.0148	<0.00010	0.000390	0.00848
L2245144-4	WQ7	Surface		3/14/2019	<0.0050	<0.0050	<0.50	1.95	1.81	0.0125	<0.00010	0.000490	0.00863
L2256054-1	WQ7	Surface		4/9/2019	<0.0050	<0.0050	<0.50	7.96	8.36	0.0999	<0.00010	0.000550	0.00931

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Cyanides			Organic / Inorganic Carbon		Total Metals			
					Cyanide, Total	Cyanide, Weak Acid Diss	Thiocyanate	Dissolved Organic	Total Organic	Aluminum (Al)-Total	Antimony (Sb)-Total	Arsenic (As)-Total	Barium (Ba)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2269368-6	WQ7	Surface	Dup	5/4/2019	<0.0050	<0.0050	0.290	11.3	11.3	0.335	<0.00010	0.000650	0.00767
L2269368-1	WQ7	Surface		5/4/2019	<0.0050	<0.0050	0.300	11.1	12.7	0.299	<0.00010	0.000630	0.00706
L2277964-4	WQ7	Surface		5/21/2019	<0.0050	<0.0050	0.460	17.0	18.0	1.32	<0.00010	0.00122	0.0187
L2282191-2	WQ7	Surface		5/28/2019	<0.0050	<0.0050	0.360	13.0	12.7	0.211	<0.00010	0.000440	0.00565
L2282975-1	WQ7	Surface		5/29/2019	<0.0050	<0.0050	0.340	12.2	12.7	0.237	<0.00010	0.000560	0.00688
L2286702-5	WQ7	Surface	Dup	6/4/2019	<0.0050	<0.0050	0.260	9.55	9.00	0.133	<0.00010	0.000500	0.00629
L2286702-1	WQ7	Surface		6/4/2019	<0.0050	<0.0050	0.240	9.37	9.29	0.133	<0.00010	0.000500	0.00627
L2313851-2	WQ7	Surface		7/18/2019	<0.0050	<0.0050	0.370	9.63	10.8	0.138	<0.00010	0.000580	0.00617
L2328474-3	WQ7	Surface		8/12/2019	<0.0050	<0.0050	<0.50	9.34	9.30	0.102	<0.00010	0.000600	0.00620
L2349445-1	WQ7	Surface		9/16/2019	<0.0050	<0.0050	<0.50	5.04	5.46	0.0410	<0.00010	0.000620	0.00777
L2371052-1	WQ7	Surface		10/22/2019	<0.0050	<0.0050	<0.50	8.10	8.19	0.0823	<0.00010	0.000540	0.00563
L2388381-1	WQ7	Surface		11/25/2019	<0.0050	<0.0050	<0.50	9.31	9.67	0.140	<0.00010	0.000480	0.00540
VA19A0791-001	WQ7	Surface		12/17/2019	<0.0050	<0.0050	<0.50	4.95	5.30	0.0675	<0.00010	0.000530	0.00642
VA20A0960-001	WQ7	Surface		1/27/2020	<0.0050	<0.0050	<0.50	3.84	4.28	0.0259	<0.00010	0.000470	0.00717
VA20A2126-004	WQ7	Surface		2/19/2020	<0.0050	<0.0050	<0.50	3.36	3.50	0.0298	<0.00010	0.000510	0.00797
VA20A3691-002	WQ7	Surface		3/18/2020	<0.0050	<0.0050	<0.50	2.91	2.73	0.0153	<0.00010	0.000430	0.00785
VA20A4555-002	WQ7	Surface		4/7/2020	<0.0050	<0.0050	<0.50	2.48	2.74	0.0110	<0.00010	0.000420	0.00872
VA20A6218-002	WQ7	Surface		5/7/2020	<0.0050	<0.0050	<0.50	12.2	12.5	0.230	<0.00010	0.000400	0.00624
VA20A6503-003	WQ7	Surface		5/13/2020	<0.0050	<0.0050	<0.50	12.1	12.8	0.313	<0.00010	0.000500	0.00597
VA20A6869-001	WQ7	Surface		5/20/2020	<0.0050	<0.0050	<0.50	12.4	12.2	0.311	<0.00010	0.000530	0.00585
VA20A7367-001	WQ7	Surface		5/28/2020	<0.0050	<0.0050	<0.50	9.76	10.8	0.175	<0.00010	0.000480	0.00563
VA20A7672-004	WQ7	Surface		6/2/2020	<0.0050	<0.0050	<0.50	8.48	9.19	0.126	<0.00010	0.000480	0.00478
VA20A9918-005	WQ7	Surface	Dup	7/6/2020	<0.0050	<0.0050	<0.50	9.41	9.53	0.104	<0.00010	0.000500	0.00580
VA20A9918-001	WQ7	Surface		7/6/2020	<0.0050	<0.0050	<0.50	9.30	9.20	0.0895	<0.00010	0.000540	0.00584
VA20B2156-004	WQ7	Surface		8/5/2020	<0.0050	<0.0050	<0.50	4.72	4.92	0.0348	<0.00010	0.000560	0.00771
VA20B2542-005	WQ7	Surface	Dup	8/11/2020	<0.0050	<0.0050	<0.50	5.18	5.95	0.0537	<0.00010	0.000640	0.00769
VA20B2542-003	WQ7	Surface		8/11/2020	<0.0050	<0.0050	<0.50	5.32	5.80	0.0460	<0.00010	0.000610	0.00759
VA20B3218-001	WQ7	Surface		8/18/2020	<0.0050	<0.0050	<0.50	5.60	5.43	0.0610	<0.00010	0.000630	0.00860
VA20B3609-002	WQ7	Surface		8/24/2020	<0.0050	<0.0050	<0.50	5.50	6.05	0.0398	<0.00010	0.000610	0.00750
VA20B4443-003	WQ7	Surface		9/2/2020	<0.0050	<0.0050	<0.50	5.25	5.44	0.0240	<0.00010	0.000560	0.00752
VA20B7624-001	WQ7	Surface		10/6/2020	<0.0050	<0.0050	<0.50	4.68	4.61	0.0292	<0.00010	0.000610	0.00845
VA20C0298-001	WQ7	Surface		11/5/2020	<0.0050	<0.0050	<0.50	13.1	14.6	0.300	<0.00010	0.000520	0.00681
	WQ8	Surface		4/19/2011	<0.0050	<0.0050	-	4.10	6.10	< 0.003	< 0.00005	< 0.0002	0.00563
	WQ8	Surface		5/17/2011	0.00510	<0.0050	-	11.4	6.60	0.0130	< 0.00005	0.000400	0.00533
	WQ8	Surface	Dup	5/24/2011	0.00900	<0.0050	-	11.2	7.30	0.0530	< 0.00005	0.000400	0.00591
	WQ8	Surface		5/24/2011	0.00550	<0.0050	-	10.9	7.00	0.0390	< 0.00005	0.000400	0.00571
	WQ8	Surface		5/30/2011	-	-	-	12.4	32.6	0.0200	< 0.00005	0.000400	0.00504
	WQ8	Surface		6/6/2011	0.00550	<0.0050	-	8.40	9.00	0.0600	< 0.00005	0.000400	0.00588
	WQ8	Surface	Dup	6/13/2011	-	-	-	9.90	10.0	0.0700	< 0.00005	0.000500	0.00637
	WQ8	Surface		6/13/2011	<0.0050	<0.0050	-	9.80	10.0	0.0660	< 0.00005	0.000500	0.00623
	WQ8	Surface		7/18/2011	<0.0050	<0.0050	<0.50	9.10	9.60	0.0900	< 0.00005	0.000500	0.00770
	WQ8	Surface		8/15/2011	<0.0050	<0.0050	-	9.30	9.30	0.0100	< 0.00005	0.000500	0.00577
	WQ8	Surface		9/19/2011	<0.0050	<0.0050	-	8.20	8.20	0.0110	< 0.00005	0.000400	0.00609
	WQ8	Surface		10/17/2011	<0.0050	<0.0050	-	7.80	8.10	0.00900	< 0.00005	0.000400	0.00629

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Cyanides			Organic / Inorganic Carbon		Total Metals			
					Cyanide, Total	Cyanide, Weak Acid Diss	Thiocyanate	Dissolved Organic	Total Organic	Aluminum (Al)-Total	Antimony (Sb)-Total	Arsenic (As)-Total	Barium (Ba)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ8	Surface		11/14/2011	<0.0050	<0.0050	-	7.50	7.60	0.00300	< 0.00005	0.000500	0.00599
	WQ8	Surface		12/12/2011	<0.0050	<0.0050	-	8.30	8.40	0.147	< 0.00005	0.000600	0.00938
	WQ8	Surface		1/12/2012	-	-	<0.50	8.00	8.00	0.0170	< 0.00005	0.000500	0.00630
	WQ8	Surface		2/13/2012	<0.0050	<0.0050	-	8.10	8.10	< 0.002	< 0.00005	0.000500	0.00672
	WQ8	Surface		3/12/2012	<0.0050	<0.0050	-	7.70	7.80	0.0160	< 0.00005	0.000500	0.00673
	WQ8	Surface		4/16/2012	<0.0050	<0.0050	-	8.10	8.10	0.0110	< 0.00005	0.000400	0.00593
	WQ8	Surface		5/14/2012	<0.0050	<0.0050	-	8.50	8.50	0.0280	< 0.00005	0.000500	0.00730
	WQ8	Surface		5/22/2012	<0.0050	<0.0050	-	8.20	8.30	0.0290	< 0.00005	0.000500	0.00639
	WQ8	Surface		5/28/2012	<0.0050	<0.0050	-	8.00	8.00	0.0130	< 0.00005	0.000500	0.00598
	WQ8	Surface		6/4/2012	<0.0050	<0.0050	-	8.40	8.60	0.0160	< 0.00005	0.000500	0.00638
	WQ8	Surface		6/11/2012	<0.0050	<0.0050	-	7.90	7.90	0.0100	0.0000600	0.000400	0.00734
	WQ8	Surface		6/18/2012	<0.0050	<0.0050	-	8.10	8.30	0.0120	< 0.00005	0.000500	0.00607
	WQ8	Surface		7/16/2012	<0.0050	<0.0050	-	8.10	8.10	0.0140	< 0.00005	0.000400	0.00610
	WQ8	Surface		8/13/2012	<0.0050	<0.0050	-	8.40	8.40	0.0120	< 0.00005	0.000500	0.00618
	WQ8	Surface		9/17/2012	<0.0050	<0.0050	-	19.8	20.6	0.0580	< 0.00005	0.000400	0.00677
	WQ8	Surface		10/15/2012	<0.0050	<0.0050	-	15.0	22.0	0.0110	< 0.00005	0.000400	0.00644
	WQ8	Surface		11/13/2012	<0.0050	<0.0050	-	7.50	7.90	0.116	< 0.00005	0.000500	0.00887
	WQ8	Surface		1/13/2013	-	-	-	8.20	8.20	0.0100	< 0.00005	0.000500	0.00680
	WQ8	Surface		2/12/2013	<0.0050	<0.0050	-	7.60	7.60	< 0.002	< 0.00005	0.000400	0.00605
	WQ8	Surface	Dup	3/11/2013	<0.0050	<0.0050	-	7.40	7.70	0.00400	< 0.00005	0.000500	0.00613
	WQ8	Surface		3/11/2013	<0.0050	<0.0050	-	7.40	7.50	< 0.002	< 0.00005	0.000500	0.00604
	WQ8	Surface		4/15/2013	<0.0050	<0.0050	<0.5	6.60	6.80	0.0180	< 0.00005	0.00170	0.0132
	WQ8	Surface		5/13/2013	<0.0050	<0.0050	-	7.30	7.40	0.0130	< 0.00005	0.000500	0.00586
	WQ8	Surface		5/22/2013	<0.0050	<0.0050	-	20.4	20.8	0.0250	< 0.00005	0.000900	0.00837
	WQ8	Surface		5/27/2013	<0.0050	<0.0050	-	8.00	8.10	0.0230	< 0.00005	0.000500	0.00548
	WQ8	Surface		6/6/2013	<0.0050	<0.0050	-	7.90	7.90	0.0100	< 0.00005	0.000400	0.00567
	WQ8	Surface		6/10/2013	-	-	-	8.20	8.60	0.0440	< 0.00005	0.000300	0.00619
	WQ8	Surface		6/17/2013	<0.0050	<0.0050	-	8.30	8.60	0.0210	0.0000500	0.000300	0.00571
	WQ8	Surface		4/13/2014	<0.0050	<0.0050	-	8.40	8.40	0.00700	<0.00005	0.000300	0.00546
	WQ8	Surface		7/2/2014	<0.0050	<0.0050	-	8.00	8.00	0.00700	<0.00005	0.000500	0.00539
	WQ8	Surface		9/24/2014	<0.0050	<0.0050	-	7.50	7.50	0.00900	<0.00005	0.000500	0.00609
	WQ8	Surface	Dup	12/9/2014	<0.0050	<0.0050	-	7.10	7.10	<0.002	<0.00005	0.000700	0.00509
	WQ8	Surface		12/9/2014	<0.0050	<0.0050	-	7.10	7.10	< 0.002	< 0.00005	0.000700	0.00517
L1913531-6	WQ8	Surface		4/12/2017	<0.0050	<0.0050	<0.50	7.21	8.10	0.00440	<0.00010	0.000540	0.00341
L1926080-3	WQ8	Surface		5/11/2017	<0.0050	<0.0050	<0.50	8.08	8.07	0.00800	<0.00010	0.000620	0.00526
L1939712-8	WQ8	Surface		6/7/2017	<0.0050	<0.0050	<0.50	8.68	9.78	0.0140	<0.00010	0.000530	0.00459
L1962414-4	WQ8	Surface		7/19/2017	<0.0050	<0.0050	<0.50	7.77	7.98	0.00550	<0.00010	0.000550	0.00463
L1984944-6	WQ8	Surface		8/30/2017	<0.0050	<0.0050	<0.50	8.07	8.38	0.00580	<0.00010	0.000580	0.00520
L1987355-1	WQ8	Surface		9/5/2017	<0.0050	<0.0050	<0.50	7.97	8.04	0.00620	<0.00010	0.000530	0.00499
L2009845-4	WQ8	Surface		10/17/2017	<0.0050	<0.0050	<0.50	7.40	7.59	0.0178	<0.00010	0.000570	0.00642
L2020333-4	WQ8	Surface		11/7/2017	<0.0050	<0.0050	<0.50	7.81	7.62	0.0306	<0.00010	0.000650	0.00577
L2034610-1	WQ8	Surface		12/11/2017	<0.0050	<0.0050	<0.50	8.35	8.59	<0.0030	<0.00010	0.000630	0.00533
L2049224-5	WQ8	Surface	Dup	1/23/2018	<0.0050	<0.0050	<0.50	8.61	7.99	<0.0030	<0.00010	0.000600	0.00557
L2049224-1	WQ8	Surface		1/23/2018	<0.0050	<0.0050	<0.50	7.66	7.83	<0.0030	<0.00010	0.000640	0.00548

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Cyanides			Organic / Inorganic Carbon		Total Metals			
					Cyanide, Total	Cyanide, Weak Acid Diss	Thiocyanate	Dissolved Organic	Total Organic	Aluminum (Al)-Total	Antimony (Sb)-Total	Arsenic (As)-Total	Barium (Ba)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2057954-1	WQ8	Surface		2/15/2018	<0.0050	<0.0050	<0.50	7.47	7.70	<0.0030	<0.00010	0.000570	0.00511
L2073898-2	WQ8	Surface		3/27/2018	<0.0050	<0.0050	<0.50	7.50	8.03	0.0297	<0.00010	0.000550	0.00498
L2081503-2	WQ8	Surface		4/17/2018	<0.0050	<0.0050	<0.50	7.63	7.74	<0.0030	<0.00010	0.000560	0.00482
L2096380-1	WQ8	Surface		5/15/2018	<0.0050	<0.0050	<0.50	8.49	9.12	0.0731	<0.00010	0.000590	0.00557
L2104479-2	WQ8	Surface		5/30/2018	<0.0050	<0.0050	<0.50	9.41	9.80	0.0370	<0.00010	0.000560	0.00524
L2132128-2	WQ8	Surface		7/17/2018	<0.0050	<0.0050	<0.50	9.22	9.72	0.00760	<0.00010	0.000540	0.00566
L2144782-1	WQ8	Surface		8/9/2018	<0.0050	<0.0050	<0.50	8.99	9.67	0.00740	<0.00010	0.000540	0.00572
L2164448-2	WQ8	Surface		9/12/2018	<0.0050	<0.0050	0.570	8.98	9.66	<0.012	<0.00010	0.000560	0.00647
L2187638-2	WQ8	Surface		10/24/2018	<0.0050	<0.0050	<0.50	8.46	9.05	0.00870	<0.00010	0.000610	0.00572
L2203408-3	WQ8	Surface		11/27/2018	<0.0050	<0.0050	<0.50	8.14	8.17	0.00840	<0.00010	0.000630	0.00553
L2213684-6	WQ8	Surface	Dup	12/19/2018	<0.0050	<0.0050	<0.50	7.79	7.90	0.00440	<0.00010	0.000590	0.00514
L2213684-2	WQ8	Surface		12/19/2018	<0.0050	<0.0050	<0.50	7.94	7.58	<0.0030	<0.00010	0.000600	0.00486
L2227101-2	WQ8	Surface		1/29/2019	<0.0050	<0.0050	<0.50	8.48	8.71	<0.0030	<0.00010	0.000640	0.00513
L2232050-5	WQ8	Surface		2/11/2019	<0.0050	<0.0050	<0.50	8.26	8.51	<0.0030	<0.00010	0.000620	0.00536
L2245144-1	WQ8	Surface		3/14/2019	<0.0050	<0.0050	<0.50	8.19	8.27	0.00330	<0.00010	0.000690	0.00533
L2256054-2	WQ8	Surface		4/9/2019	<0.0050	<0.0050	<0.50	7.59	7.92	0.00660	<0.00010	0.000480	0.00410
L2277964-1	WQ8	Surface		5/21/2019	<0.0050	<0.0050	0.200	7.70	8.79	0.00900	<0.00010	0.000630	0.00521
L2286702-2	WQ8	Surface		6/4/2019	<0.0050	<0.0050	0.180	8.76	8.68	0.0280	<0.00010	0.000570	0.00532
L2313851-3	WQ8	Surface		7/18/2019	<0.0050	<0.0050	0.320	8.61	9.10	0.00810	<0.00010	0.000520	0.00514
L2328474-4	WQ8	Surface		8/12/2019	<0.0050	<0.0050	<0.50	9.31	9.22	0.00600	<0.00010	0.000530	0.00486
L2349445-2	WQ8	Surface		9/16/2019	<0.0050	<0.0050	<0.50	8.80	9.69	0.00480	<0.00010	0.000550	0.00551
L2371052-2	WQ8	Surface		10/22/2019	<0.0050	<0.0050	<0.50	9.26	9.34	0.00940	<0.00010	0.000540	0.00536
L2388381-2	WQ8	Surface		11/25/2019	<0.0050	<0.0050	<0.50	7.90	8.08	<0.0030	<0.00010	0.000590	0.00607
VA19A0791-002	WQ8	Surface		12/17/2019	<0.0050	<0.0050	<0.50	7.84	8.45	<0.0030	<0.00010	0.000620	0.00694
VA20A0960-002	WQ8	Surface		1/27/2020	<0.0050	<0.0050	<0.50	8.14	8.88	<0.0030	<0.00010	0.000620	0.00630
VA20A2126-002	WQ8	Surface		2/19/2020	<0.0050	<0.0050	<0.50	8.46	8.18	<0.0030	<0.00010	0.000590	0.00654
VA20A3691-003	WQ8	Surface		3/18/2020	<0.0050	<0.0050	<0.50	8.17	8.05	<0.0030	<0.00010	0.000570	0.00584
VA20A4555-003	WQ8	Surface		4/7/2020	<0.0050	<0.0050	<0.50	8.24	8.56	<0.0030	<0.00010	0.000590	0.00627
VA20A6356-001	WQ8	Surface		5/11/2020	<0.0050	<0.0050	<0.50	8.02	9.62	0.0311	<0.00010	0.000560	0.00594
VA20A7797-004	WQ8	Surface		6/3/2020	<0.0050	<0.0050	<0.50	8.27	8.21	0.0143	<0.00010	0.000520	0.00578
VA20B0021-004	WQ8	Surface		7/7/2020	<0.0050	<0.0050	<0.50	8.04	8.90	0.00570	<0.00010	0.000560	0.00565
VA20B2156-005	WQ8	Surface		8/5/2020	<0.0050	<0.0050	<0.50	8.85	8.73	0.00630	<0.00010	0.000480	0.00539
VA20B4443-004	WQ8	Surface		9/2/2020	<0.0050	<0.0050	<0.50	9.46	9.71	0.00520	<0.00010	0.000510	0.00583
VA20B7624-002	WQ8	Surface		10/6/2020	<0.0050	<0.0050	<0.50	8.21	8.05	0.00730	<0.00010	0.000600	0.00596
VA20C0298-002	WQ8	Surface		11/5/2020	<0.0050	<0.0050	<0.50	9.48	10.5	0.131	<0.00010	0.000570	0.00696
	WQ9	Surface	Dup	3/30/2011	-	-	-	5.60	6.00	0.0314	< 0.00005	0.000300	0.00792
	WQ9	Surface		3/30/2011	-	-	-	5.50	5.90	0.0420	< 0.00005	0.000400	0.00806
	WQ9	Surface	Dup	4/19/2011	<0.0050	<0.0050	-	5.10	7.20	0.0510	< 0.00005	0.000200	0.00848
	WQ9	Surface		4/19/2011	<0.0050	<0.0050	-	2.60	5.90	0.0740	< 0.00005	0.000200	0.00913
	WQ9	Surface		5/17/2011	0.00980	<0.0050	-	12.8	10.4	0.193	< 0.00005	0.000600	0.00808
	WQ9	Surface		5/24/2011	0.0160	<0.0050	-	15.2	11.8	0.186	< 0.00005	0.000500	0.00771
	WQ9	Surface	Dup	5/30/2011	-	-	-	12.5	37.1	0.178	< 0.00005	0.000500	0.00784
	WQ9	Surface		5/30/2011	-	-	-	12.1	25.1	0.172	< 0.00005	0.000500	0.00770
	WQ9	Surface		6/6/2011	0.00780	<0.0050	-	10.1	11.0	0.119	< 0.00005	0.000500	0.00664

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Cyanides			Organic / Inorganic Carbon		Total Metals			
					Cyanide, Total	Cyanide, Weak Acid Diss	Thiocyanate	Dissolved Organic	Total Organic	Aluminum (Al)-Total	Antimony (Sb)-Total	Arsenic (As)-Total	Barium (Ba)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ9	Surface		6/13/2011	<0.0050	<0.0050	-	9.90	10.1	0.0870	< 0.00005	0.000600	0.00722
	WQ9	Surface		7/18/2011	<0.0050	<0.0050	0.620	10.7	10.7	0.0870	0.0000600	0.000700	0.00838
	WQ9	Surface		8/15/2011	<0.0050	<0.0050	-	8.80	9.10	0.0310	< 0.00005	0.000600	0.00678
	WQ9	Surface		9/19/2011	<0.0050	<0.0050	-	7.20	7.20	0.0200	< 0.00005	0.000700	0.00809
	WQ9	Surface		10/17/2011	<0.0050	<0.0050	-	7.20	7.20	0.0240	< 0.00005	0.000600	0.00774
	WQ9	Surface		11/14/2011	<0.0050	<0.0050	-	7.50	7.50	0.0420	< 0.00005	0.000600	0.00725
	WQ9	Surface		12/12/2011	<0.0050	<0.0050	-	7.60	7.60	0.0200	< 0.00005	0.000500	0.00757
	WQ9	Surface		1/12/2012	-	-	<0.50	7.70	7.70	0.0710	< 0.00005	0.000600	0.00852
	WQ9	Surface		2/13/2012	<0.0050	<0.0050	-	7.20	7.20	0.0300	< 0.00005	0.000600	0.00784
	WQ9	Surface		3/12/2012	<0.0050	<0.0050	-	7.40	7.40	0.0260	< 0.00005	0.000500	0.00780
	WQ9	Surface		4/17/2012	<0.0050	<0.0050	-	9.90	9.90	0.139	0.0000500	0.000700	0.0102
	WQ9	Surface		5/14/2012	<0.0050	<0.0050	-	9.80	9.80	0.208	< 0.00005	0.000600	0.00998
	WQ9	Surface	Dup	5/22/2012	<0.0050	<0.0050	-	9.40	9.40	0.210	0.0000500	0.000500	0.00812
	WQ9	Surface		5/22/2012	<0.0050	<0.0050	-	9.40	9.40	0.145	< 0.00005	0.000500	0.00761
	WQ9	Surface		5/28/2012	<0.0050	<0.0050	-	9.50	9.50	0.167	0.0000500	0.000500	0.00750
	WQ9	Surface		6/4/2012	<0.0050	<0.0050	-	8.90	9.00	0.0860	< 0.00005	0.000500	0.00717
	WQ9	Surface		6/11/2012	<0.0050	<0.0050	-	8.20	8.50	0.0580	0.0000600	0.000500	0.00743
	WQ9	Surface		6/18/2012	<0.0050	<0.0050	-	8.40	8.40	0.0640	< 0.00005	0.000500	0.00691
	WQ9	Surface		7/16/2012	<0.0050	<0.0050	-	8.00	8.00	0.0140	< 0.00005	0.000500	0.00694
	WQ9	Surface		8/13/2012	<0.0050	<0.0050	-	8.30	8.30	0.0160	< 0.00005	0.000700	0.00706
	WQ9	Surface		9/17/2012	<0.0050	<0.0050	-	20.0	22.9	0.0190	< 0.00005	0.000500	0.00726
	WQ9	Surface		10/16/2012	<0.0050	<0.0050	<0.5	14.9	16.4	0.0210	< 0.00005	0.000500	0.00801
	WQ9	Surface		11/12/2012	<0.0050	<0.0050	-	6.90	6.90	0.0190	< 0.00005	0.000500	0.00823
	WQ9	Surface	Dup	12/10/2012	<0.0050	<0.0050	-	6.80	6.80	0.0160	< 0.00005	0.000500	0.00737
	WQ9	Surface		12/10/2012	<0.0050	<0.0050	-	6.60	6.60	0.00900	< 0.00005	0.000500	0.00719
	WQ9	Surface		1/15/2013	-	-	-	6.90	6.90	0.00500	< 0.00005	0.000500	0.00774
	WQ9	Surface		2/13/2013	<0.0050	<0.0050	-	6.60	6.60	0.00800	< 0.00005	0.000400	0.00705
	WQ9	Surface		3/12/2013	<0.0050	<0.0050	-	6.30	6.30	0.0140	< 0.00005	0.000500	0.00697
	WQ9	Surface		4/16/2013	<0.0050	<0.0050	<0.5	7.20	7.20	0.0870	< 0.00005	0.000500	0.00851
	WQ9	Surface		5/14/2013	<0.0050	<0.0050	-	9.30	9.30	0.141	< 0.00005	0.000500	0.00679
	WQ9	Surface		5/21/2013	<0.0050	<0.0050	-	8.30	8.50	0.0790	0.0000500	0.000600	0.00752
	WQ9	Surface	Dup	5/28/2013	<0.0050	<0.0050	-	9.70	9.70	0.134	< 0.00005	0.000500	0.00661
	WQ9	Surface		5/28/2013	<0.0050	<0.0050	-	9.70	9.70	0.121	0.0000500	0.000500	0.00652
	WQ9	Surface		6/4/2013	<0.0050	<0.0050	-	9.10	9.10	0.0770	< 0.00005	0.000500	0.00685
	WQ9	Surface		6/11/2013	<0.0050	<0.0050	-	8.30	8.40	0.0500	< 0.00005	0.000300	0.00689
	WQ9	Surface		6/18/2013	<0.0050	<0.0050	-	9.30	9.30	0.0420	< 0.00005	0.000400	0.00642
	WQ9	Surface		4/13/2014	<0.0050	<0.0050	-	7.30	7.40	0.0320	<0.00005	0.000400	0.00760
	WQ9	Surface	Dup	7/2/2014	<0.0050	<0.0050	-	7.90	7.90	0.0230	<0.00005	0.000600	0.00856
	WQ9	Surface		7/2/2014	<0.0050	<0.0050	-	7.80	7.90	0.0170	< 0.00005	0.000600	0.0105
	WQ9	Surface		9/24/2014	<0.0050	<0.0050	-	5.90	5.90	0.0160	<0.00005	0.000700	0.00767
	WQ9	Surface		12/9/2014	<0.0050	<0.0050	-	5.60	5.60	0.00500	<0.00005	0.000500	0.00606
L1812856-10	WQ9	Surface		8/10/2016	<0.0050	<0.0050	-	9.10	9.41	0.0255	<0.00010	0.000710	0.00569
L1815654-10	WQ9	Surface		8/16/2016	<0.0050	<0.0050	-	9.14	9.68	0.0205	<0.00010	0.000730	0.00574
L1819041-1	WQ9	Surface		8/23/2016	<0.0050	<0.0050	-	8.23	8.46	0.0278	<0.00010	0.000820	0.00630

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Cyanides			Organic / Inorganic Carbon		Total Metals			
					Cyanide, Total	Cyanide, Weak Acid Diss	Thiocyanate	Dissolved Organic	Total Organic	Aluminum (Al)-Total	Antimony (Sb)-Total	Arsenic (As)-Total	Barium (Ba)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1823224-3	WQ9	Surface		8/31/2016	<0.0050	<0.0050	-	9.07	9.22	0.0479	<0.00010	0.000780	0.00695
L1826303-6	WQ9	Surface	Dup	9/7/2016	<0.0050	<0.0050	-	9.66	9.86	0.0228	<0.00010	0.000760	0.00726
L1826303-10	WQ9	Surface		9/7/2016	<0.0050	<0.0050	-	7.01	6.90	0.0381	<0.00010	0.000630	0.00748
L1913531-7	WQ9	Surface		4/12/2017	<0.0050	<0.0050	<0.50	7.47	7.59	0.0776	<0.00010	0.000660	0.00678
L1926080-5	WQ9	Surface		5/11/2017	<0.0050	<0.0050	<0.50	10.2	10.7	0.177	<0.00010	0.000730	0.00873
L1939712-9	WQ9	Surface		6/7/2017	<0.0050	<0.0050	<0.50	9.23	10.1	0.114	<0.00010	0.000660	0.00633
L1962414-5	WQ9	Surface		7/19/2017	<0.0050	<0.0050	<0.50	7.55	7.36	0.0228	<0.00010	0.000700	0.00616
L1984944-7	WQ9	Surface		8/30/2017	<0.0050	<0.0050	<0.50	7.31	7.50	0.0241	<0.00010	0.000720	0.00709
L1988832-5	WQ9	Surface		9/9/2017	<0.0050	<0.0050	<0.50	6.83	7.10	0.0215	<0.00010	0.000830	0.00708
L2009845-6	WQ9	Surface	Dup	10/17/2017	<0.0050	<0.0050	<0.50	6.61	6.60	0.0578	<0.00010	0.000680	0.00769
L2009845-3	WQ9	Surface		10/17/2017	<0.0050	<0.0050	<0.50	6.53	6.67	0.0534	<0.00010	0.000700	0.00888
L2020333-3	WQ9	Surface		11/7/2017	<0.0050	<0.0050	<0.50	7.31	7.59	0.0864	<0.00010	0.000650	0.00763
L2034610-6	WQ9	Surface	Dup	12/11/2017	<0.0050	<0.0050	<0.50	7.40	8.25	0.0246	<0.00010	0.000620	0.00720
L2034610-3	WQ9	Surface		12/11/2017	<0.0050	<0.0050	<0.50	7.57	7.55	0.0289	<0.00010	0.000620	0.00710
L2049224-2	WQ9	Surface		1/23/2018	<0.0050	<0.0050	<0.50	6.59	6.81	0.0268	<0.00010	0.000610	0.00704
L2057025-1	WQ9	Surface		2/13/2018	<0.0050	<0.0050	<0.50	6.94	7.14	0.0505	<0.00010	0.000620	0.00751
L2074294-2	WQ9	Surface		3/28/2018	<0.0050	<0.0050	<0.50	7.95	8.01	0.110	<0.00010	0.000830	0.00834
L2081503-3	WQ9	Surface		4/17/2018	<0.0050	<0.0050	<0.50	8.51	8.26	0.0185	<0.00010	0.000610	0.00729
L2097084-2	WQ9	Surface		5/16/2018	<0.0050	<0.0050	<0.50	10.9	10.9	0.160	0.000110	0.000560	0.00687
L2104479-5	WQ9	Surface	Dup	5/30/2018	<0.0050	<0.0050	<0.50	10.1	10.2	0.0616	<0.00010	0.000660	0.00631
L2104479-3	WQ9	Surface		5/30/2018	<0.0050	<0.0050	<0.50	10.0	10.6	0.0632	<0.00010	0.000620	0.00648
L2132128-3	WQ9	Surface		7/17/2018	<0.0050	<0.0050	<0.50	8.64	8.72	0.0359	<0.00010	0.000640	0.00738
L2144782-3	WQ9	Surface		8/9/2018	<0.0050	<0.0050	<0.50	7.75	8.34	0.0471	<0.00010	0.000680	0.00749
L2164448-5	WQ9	Surface		9/12/2018	<0.0050	<0.0050	0.550	7.01	7.60	0.0196	<0.00010	0.000700	0.00818
L2187638-5	WQ9	Surface		10/24/2018	<0.0050	<0.0050	<0.50	7.97	7.88	0.0357	<0.00010	0.000670	0.00719
L2203408-4	WQ9	Surface		11/27/2018	<0.0050	<0.0050	<0.50	7.55	7.58	0.0308	<0.00010	0.000650	0.00684
L2213684-3	WQ9	Surface		12/19/2018	<0.0050	<0.0050	<0.50	6.11	7.03	0.0172	<0.00010	0.000600	0.00618
L2227101-3	WQ9	Surface		1/29/2019	<0.0050	<0.0050	<0.50	7.73	7.94	0.0246	<0.00010	0.000620	0.00661
L2233329-3	WQ9	Surface		2/13/2019	<0.0050	<0.0050	<0.50	7.79	8.07	0.0109	<0.00010	0.000570	0.00592
L2245144-3	WQ9	Surface		3/14/2019	<0.0050	<0.0050	<0.50	7.27	7.60	0.177	<0.00010	0.000830	0.00782
L2256054-3	WQ9	Surface		4/9/2019	<0.0050	<0.0050	<0.50	8.78	9.22	0.0850	<0.00010	0.000630	0.00884
L2274397-4	WQ9	Surface		5/14/2019	<0.0050	<0.0050	0.240	9.66	8.70	0.116	<0.00010	0.000680	0.00670
L2286702-3	WQ9	Surface		6/4/2019	<0.0050	<0.0050	0.200	9.06	9.00	0.0723	<0.00010	0.000570	0.00661
L2313851-4	WQ9	Surface		7/18/2019	<0.0050	<0.0050	0.390	9.36	9.53	0.0406	<0.00010	0.000650	0.00664
L2325935-3	WQ9	Surface		8/7/2019	<0.0050	<0.0050	<0.50	9.47	10.0	0.0341	<0.00010	0.000720	0.00684
L2349445-3	WQ9	Surface		9/16/2019	<0.0050	<0.0050	<0.50	7.90	8.15	0.0254	<0.00010	0.000670	0.00764
L2371052-3	WQ9	Surface		10/22/2019	<0.0050	<0.0050	<0.50	8.40	8.59	0.0368	<0.00010	0.000680	0.00700
L2388381-3	WQ9	Surface		11/25/2019	<0.0050	<0.0050	<0.50	8.54	8.75	0.0494	0.000100	0.000610	0.00725
VA19A0791-003	WQ9	Surface		12/17/2019	<0.0050	<0.0050	<0.50	7.46	7.96	0.0300	<0.00010	0.000670	0.00750
VA20A0960-005	WQ9	Surface	Dup	1/27/2020	<0.0050	<0.0050	<0.50	7.07	8.13	0.0173	<0.00010	0.000680	0.00700
VA20A0960-003	WQ9	Surface		1/27/2020	<0.0050	<0.0050	<0.50	7.29	8.17	0.0153	<0.00010	0.000580	0.00690
VA20A2211-003	WQ9	Surface		2/20/2020	<0.0050	<0.0050	<0.50	7.34	7.35	0.0121	<0.00010	0.000580	0.00742
VA20A3691-004	WQ9	Surface		3/18/2020	<0.0050	<0.0050	<0.50	7.17	7.36	0.0671	<0.00010	0.000630	0.00796
VA20A4555-004	WQ9	Surface		4/7/2020	<0.0050	<0.0050	<0.50	7.18	7.59	0.172	<0.00010	0.000760	0.00964

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Cyanides			Organic / Inorganic Carbon		Total Metals			
					Cyanide, Total	Cyanide, Weak Acid Diss	Thiocyanate	Dissolved Organic	Total Organic	Aluminum (Al)-Total	Antimony (Sb)-Total	Arsenic (As)-Total	Barium (Ba)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
VA20A6218-005	WQ9	Surface	Dup	5/7/2020	<0.0050	<0.0050	<0.50	9.48	10.0	0.0323	<0.00010	0.000510	0.00587
VA20A6218-003	WQ9	Surface		5/7/2020	<0.0050	<0.0050	<0.50	9.63	9.75	0.0699	<0.00010	0.000550	0.00717
VA20A6503-004	WQ9	Surface		5/13/2020	<0.0050	<0.0050	<0.50	9.64	11.0	0.103	<0.00010	0.000570	0.00668
VA20A6869-006	WQ9	Surface	Dup	5/20/2020	<0.0050	<0.0050	<0.50	10.3	10.2	0.0921	<0.00010	0.000540	0.00661
VA20A6869-002	WQ9	Surface		5/20/2020	<0.0050	<0.0050	<0.50	10.4	10.2	0.0908	<0.00010	0.000600	0.00632
VA20A7367-002	WQ9	Surface		5/28/2020	<0.0050	<0.0050	<0.50	9.26	9.69	0.0774	<0.00010	0.000550	0.00688
VA20A7672-003	WQ9	Surface		6/2/2020	<0.0050	<0.0050	<0.50	8.72	9.46	0.0312	<0.00010	0.000560	0.00607
VA20A9918-002	WQ9	Surface		7/6/2020	<0.0050	<0.0050	<0.50	10.2	10.2	0.0476	<0.00010	0.000630	0.00724
VA20B2156-006	WQ9	Surface		8/5/2020	<0.0050	<0.0050	<0.50	8.29	8.48	0.0145	<0.00010	0.000620	0.00640
VA20B2426-001	WQ9	Surface		8/10/2020	<0.0050	<0.0050	<0.50	8.14	8.37	0.0279	<0.00010	0.000700	0.00695
VA20B3033-005	WQ9	Surface	Dup	8/17/2020	<0.0050	<0.0050	<0.50	8.53	9.60	0.0331	<0.00010	0.000720	0.00796
VA20B3033-003	WQ9	Surface		8/17/2020	<0.0050	<0.0050	<0.50	8.75	9.67	0.0284	<0.00010	0.000730	0.00793
VA20B3609-003	WQ9	Surface		8/24/2020	<0.0050	<0.0050	<0.50	8.18	8.94	0.0332	<0.00010	0.000700	0.00788
VA20B4443-005	WQ9	Surface		9/2/2020	<0.0050	<0.0050	<0.50	9.52	10.0	0.0358	<0.00010	0.000700	0.00776
VA20B7624-003	WQ9	Surface		10/6/2020	<0.0050	<0.0050	<0.50	7.90	7.59	0.0173	<0.00010	0.000830	0.00750
VA20C0298-003	WQ9	Surface		11/5/2020	<0.0050	<0.0050	<0.50	11.2	13.5	0.178	<0.00010	0.000730	0.00823

Notes:

"-" indicates parameter was not analyzed.

"<" value is below the detection limit

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Beryllium (Be)-Total	Bismuth (Bi)-Total	Boron (B)-Total	Cadmium (Cd)-Total	Calcium (Ca)-Total	Chromium (Cr)-Total	Cobalt (Co)-Total	Copper (Cu)-Total	Iron (Fe)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1989016-1	BI-09	Surface		9/7/2017	<0.00010	<0.000050	<0.010	<0.0000050	12.8	<0.00010	<0.00010	<0.00050	<0.030
L2049224-4	BI-09	Surface		1/23/2018	<0.00010	<0.000050	<0.010	<0.0000050	8.24	0.000240	<0.00010	<0.00050	0.106
L2062480-1	BI-09	Surface		2/27/2018	<0.00010	<0.000050	<0.010	<0.0000050	8.20	0.000120	<0.00010	<0.00050	0.0770
L2073898-1	BI-09	Surface		3/27/2018	<0.00010	<0.000050	<0.010	<0.0000050	8.22	0.000250	<0.00010	<0.00050	0.0660
L2081505-2	BI-09	Surface	Dup	4/16/2018	<0.00010	<0.000050	<0.010	<0.0000050	8.57	0.000360	<0.00010	0.000580	0.142
L2081505-1	BI-09	Surface		4/16/2018	<0.00010	<0.000050	<0.010	<0.0000050	8.65	0.00404	<0.00010	0.000630	0.165
L2096380-2	BI-09	Surface		5/15/2018	<0.00010	<0.000050	<0.010	<0.0000050	4.66	0.000250	<0.00010	0.000650	0.143
L2102737-3	BI-09	Surface		5/28/2018	<0.00010	<0.000050	<0.010	<0.0000050	5.90	0.000270	<0.00010	0.000730	0.144
L2132128-4	BI-09	Surface		7/17/2018	<0.00010	<0.000050	<0.010	0.00000810	8.35	0.000170	<0.00010	0.000640	0.0700
L2144658-1	BI-09	Surface		8/8/2018	<0.00010	<0.000050	<0.010	<0.0000050	8.94	0.000110	<0.00010	0.000770	0.0320
L2163669-1	BI-09	Surface		9/11/2018	<0.00010	<0.000050	<0.010	<0.0000050	9.75	0.000110	<0.00010	<0.00050	<0.030
L2187638-1	BI-09	Surface		10/24/2018	<0.00010	<0.000050	<0.010	<0.0000050	8.07	0.000110	<0.00010	<0.00050	0.0470
L2204086-3	BI-09	Surface		11/28/2018	<0.00010	<0.000050	<0.010	<0.0000050	6.69	<0.00040	<0.00010	0.000670	0.211
L2213684-5	BI-09	Surface		12/19/2018	<0.00010	<0.000050	<0.010	<0.0000050	8.04	0.000160	<0.00010	<0.00050	0.0620
L2227101-5	BI-09	Surface		1/29/2019	<0.00010	<0.000050	<0.010	<0.0000050	8.33	0.000130	<0.00010	<0.00050	0.0670
L2233329-6	BI-09	Surface	Dup	2/13/2019	<0.00010	<0.000050	<0.010	<0.0000050	8.79	0.000100	<0.00010	<0.00050	0.0700
L2233329-4	BI-09	Surface		2/13/2019	<0.00010	<0.000050	<0.010	<0.0000050	9.01	0.000100	<0.00010	<0.00050	0.0670
L2245144-5	BI-09	Surface		3/14/2019	<0.00010	<0.000050	<0.010	<0.0000050	9.80	0.000100	<0.00010	<0.00050	0.0830
L2256054-5	BI-09	Surface		4/9/2019	<0.00010	<0.000050	<0.010	<0.0000050	7.41	0.000350	<0.00010	0.000890	0.270
L2282191-3	BI-09	Surface		5/28/2019	<0.00010	<0.000050	<0.010	<0.0000050	4.49	0.000200	<0.00010	0.000530	0.101
L2285579-1	BI-09	Surface		6/3/2019	<0.00010	<0.000050	<0.010	<0.0000050	6.90	0.000190	<0.00010	0.000560	0.110
L2313851-5	BI-09	Surface	Dup	7/18/2019	<0.00010	<0.000050	<0.010	0.00000610	6.92	0.000350	<0.00010	0.000710	0.236
L2313851-1	BI-09	Surface		7/18/2019	<0.00010	<0.000050	<0.010	0.00000510	6.64	0.000460	<0.00010	0.000810	0.326
L2329543-3	BI-09	Surface		8/13/2019	<0.00010	<0.000050	<0.010	<0.0000050	7.73	0.000280	<0.00010	0.000660	0.168
L2350223-4	BI-09	Surface		9/17/2019	<0.00010	<0.000050	<0.010	<0.0000050	8.33	0.000180	<0.00010	<0.00050	0.119
L2371052-5	BI-09	Surface		10/22/2019	<0.00010	<0.000050	<0.010	<0.0000050	7.05	0.000280	<0.00010	0.000840	0.176
L2378996-1	BI-09	Surface		11/5/2019	<0.00010	<0.000050	<0.010	<0.0000050	7.37	0.000260	<0.00010	0.000650	0.141
VA19A0726-005	BI-09	Surface		12/16/2019	0.0000240	<0.000050	<0.010	<0.0000050	7.90	0.000210	<0.00010	0.000700	0.157
VA20A2126-001	BI-09	Surface		2/19/2020	<0.000020	<0.000050	<0.010	<0.0000050	8.98	0.000160	<0.00010	<0.00050	0.108
VA20A7202-005	BI-09	Surface	Dup	5/26/2020	0.0000210	<0.000050	<0.010	0.00000620	3.52	0.000220	<0.00010	<0.00050	0.0800
VA20A7202-002	BI-09	Surface		5/26/2020	<0.000020	<0.000050	<0.010	<0.0000050	4.82	0.000220	<0.00010	<0.00050	0.0840
VA20B2212-001	BI-09	Surface		8/6/2020	0.0000300	<0.000050	<0.010	0.00000700	8.41	0.000330	<0.00010	0.000700	0.332
VA20C0197-002	BI-09	Surface		11/4/2020	0.0000300	<0.000050	<0.010	<0.0000050	6.36	0.000370	<0.00010	0.000750	0.267
L1989016-2	BI-12	Surface		9/7/2017	<0.00010	<0.000050	<0.010	<0.0000050	9.02	0.000160	<0.00010	<0.00050	0.541
L1762266-1	BI-13	Surface		4/27/2016	<0.00010	<0.000050	<0.010	0.0000150	5.76	0.000170	<0.00010	0.000850	0.0630
L1764648-4	BI-13	Surface		5/3/2016	<0.00010	<0.000050	<0.010	0.0000200	5.06	0.000180	<0.00010	0.000750	0.0550
L1767107-1	BI-13	Surface		5/9/2016	<0.00010	<0.000050	<0.010	0.0000120	5.69	0.000150	<0.00010	0.000500	<0.030
L1770672-2	BI-13	Surface		5/16/2016	<0.00010	0.0000520	<0.010	0.0000260	6.47	0.000170	<0.00010	0.000560	0.0320
L1774541-4	BI-13	Surface	Dup	5/25/2016	<0.00010	<0.000050	<0.010	0.0000130	6.76	0.000150	<0.00010	0.000510	<0.030
L1774541-6	BI-13	Surface		5/25/2016	<0.00010	<0.000050	<0.010	0.0000160	6.73	0.000160	<0.00010	<0.00050	<0.030
L1788643-4	BI-13	Surface		6/22/2016	<0.00010	<0.000050	<0.010	0.0000140	5.77	0.000160	<0.00010	<0.00050	0.0310
L1808945-4	BI-13	Surface		8/3/2016	<0.00010	<0.000050	<0.010	0.00000600	9.43	0.000210	<0.00010	0.000520	<0.030
L1812856-4	BI-13	Surface	Dup	8/10/2016	<0.00010	<0.000050	<0.010	0.0000130	8.57	0.000210	<0.00010	0.000580	<0.030
L1812856-6	BI-13	Surface		8/10/2016	<0.00010	<0.000050	<0.010	<0.0000050	8.71	0.000150	<0.00010	0.000510	<0.030

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Beryllium (Be)-Total	Bismuth (Bi)-Total	Boron (B)-Total	Cadmium (Cd)-Total	Calcium (Ca)-Total	Chromium (Cr)-Total	Cobalt (Co)-Total	Copper (Cu)-Total	Iron (Fe)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1815654-4	BI-13	Surface		8/16/2016	<0.00010	<0.000050	<0.010	0.00000600	10.1	0.000110	<0.00010	<0.00050	<0.030
L1819041-7	BI-13	Surface		8/23/2016	<0.00010	<0.000050	<0.010	0.0000130	8.22	0.000180	<0.00010	0.000610	0.0460
L1823224-7	BI-13	Surface		8/31/2016	<0.00010	<0.000050	<0.010	0.00000800	8.16	0.000230	<0.00010	0.000560	<0.030
L1826303-1	BI-13	Surface		9/7/2016	<0.00010	<0.000050	<0.010	0.0000170	7.08	0.000150	<0.00010	0.000500	0.0410
L1988832-6	BI-13	Surface		9/9/2017	<0.00010	<0.000050	<0.010	0.00000600	12.6	0.000230	<0.00010	<0.00050	<0.030
	WQ1	Surface		5/17/2011	< 0.0001	-	< 0.001	0.0000600	3.00	0.000300	0.0000700	0.000700	0.306
	WQ1	Surface		5/24/2011	< 0.0001	-	0.00100	0.0000470	2.70	0.000300	0.0000600	0.000700	0.226
	WQ1	Surface		5/30/2011	< 0.0001	-	0.00100	0.0000190	2.10	0.000300	0.0000800	0.000500	0.228
	WQ1	Surface	Dup	6/6/2011	< 0.0001	-	0.00100	0.0000380	1.60	0.000300	0.0000500	0.000500	0.149
	WQ1	Surface		6/6/2011	< 0.0001	-	< 0.001	0.0000270	1.60	0.000300	0.0000500	0.000500	0.152
	WQ1	Surface		6/13/2011	< 0.0001	-	0.00100	< 0.000015	1.50	< 0.0003	0.0000400	0.000500	0.108
	WQ1	Surface		7/18/2011	< 0.0001	-	< 0.001	< 0.000015	2.00	< 0.0003	0.0000300	0.00860	0.110
	WQ1	Surface		8/15/2011	< 0.0001	-	< 0.001	< 0.000015	2.20	< 0.0003	0.0000300	0.000300	0.143
	WQ1	Surface		9/19/2011	< 0.0001	-	< 0.001	< 0.000015	2.40	< 0.0003	0.0000300	0.000300	0.128
	WQ1	Surface		10/17/2011	< 0.0001	-	0.00900	< 0.000015	2.30	< 0.0003	0.0000300	0.000200	0.154
	WQ1	Surface		11/14/2011	< 0.0001	-	0.00400	< 0.000015	2.30	0.000300	0.0000600	0.00230	0.294
	WQ1	Surface		5/15/2012	< 0.0001	-	< 0.001	0.0000350	2.90	0.000400	0.0000300	0.00130	0.475
	WQ1	Surface		5/23/2012	< 0.0001	-	< 0.001	< 0.000015	2.70	< 0.0003	0.0000300	0.000400	0.294
	WQ1	Surface		5/28/2012	< 0.0001	-	< 0.001	0.0000500	2.10	< 0.0003	0.000590	0.000300	0.211
	WQ1	Surface		6/4/2012	< 0.0001	-	< 0.001	< 0.000015	1.90	< 0.0003	0.0000600	0.000300	0.242
	WQ1	Surface		6/11/2012	< 0.0001	-	< 0.001	< 0.000015	1.50	< 0.0003	0.0000300	0.00150	0.281
	WQ1	Surface		6/18/2012	< 0.0001	-	< 0.001	< 0.000015	1.70	< 0.0003	< 0.00002	< 0.0001	0.159
	WQ1	Surface		7/16/2012	< 0.0001	-	< 0.001	< 0.000015	2.10	< 0.0003	< 0.00002	0.00130	0.171
	WQ1	Surface		8/13/2012	< 0.0001	-	0.00300	0.0000620	3.50	0.000900	0.000100	0.000200	0.814
	WQ1	Surface		9/17/2012	< 0.0001	-	< 0.001	0.0000160	3.00	< 0.0003	0.0000400	0.000200	0.202
	WQ1	Surface		10/16/2012	< 0.0001	-	< 0.001	0.0000230	3.30	0.000300	0.0000600	0.000200	0.280
	WQ1	Surface		11/12/2012	< 0.0001	-	< 0.001	< 0.000015	2.90	0.000300	0.0000400	< 0.0001	0.181
	WQ1	Surface		12/10/2012	< 0.0001	-	< 0.001	< 0.000015	3.00	< 0.0003	0.0000500	0.000200	0.226
	WQ1	Surface		5/14/2013	< 0.0001	-	< 0.001	< 0.000015	1.90	< 0.0003	0.0000700	0.000500	0.238
	WQ1	Surface	Dup	5/21/2013	< 0.0001	-	< 0.001	< 0.000015	1.70	< 0.0003	0.0000500	< 0.0001	0.159
	WQ1	Surface		5/21/2013	< 0.0001	-	< 0.001	< 0.000015	1.80	< 0.0003	0.0000500	0.000100	0.159
	WQ1	Surface		5/28/2013	< 0.0001	-	< 0.001	0.0000170	2.00	< 0.0003	0.0000300	0.000500	0.163
	WQ1	Surface		6/4/2013	< 0.0001	-	0.00200	< 0.000015	1.80	< 0.0003	0.0000400	0.000500	0.126
	WQ1	Surface		6/11/2013	< 0.0001	-	< 0.001	0.0000240	1.80	< 0.0003	0.0000300	0.000200	0.0854
	WQ1	Surface		6/18/2013	< 0.0001	-	< 0.001	0.0000200	1.90	< 0.0003	0.0000400	< 0.0001	0.0999
VA20A2211-005	WQ1	Surface	Dup	2/20/2020	<0.000020	<0.000050	<0.010	0.00000800	3.21	0.000160	<0.00010	<0.00050	0.211
VA20A2211-001	WQ1	Surface		2/20/2020	<0.000020	<0.000050	<0.010	0.00000890	3.23	0.000180	<0.00010	<0.00050	0.209
VA20A6810-001	WQ1	Surface		5/19/2020	0.0000360	<0.000050	<0.010	0.0000166	1.92	0.000230	<0.00010	0.000570	0.154
VA20B2212-002	WQ1	Surface		8/6/2020	0.0000320	<0.000050	<0.010	0.0000196	2.97	0.000270	<0.00010	<0.00050	0.211
VA20C1415-001	WQ1	Surface		11/19/2020	0.0000230	<0.000050	<0.010	0.00000630	1.96	0.000220	<0.00010	<0.00050	0.132
	WQ10	Surface		3/30/2011	< 0.0001	-	< 0.001	< 0.000015	14.3	< 0.0005	<0.00005	< 0.0001	0.0239
	WQ10	Surface		4/19/2011	< 0.0001	-	< 0.001	< 0.000015	14.6	< 0.0005	<0.00005	< 0.0001	0.0242
	WQ10	Surface		5/17/2011	< 0.0001	-	< 0.001	0.0000380	4.30	0.000600	0.000160	0.00100	0.613
	WQ10	Surface		5/25/2011	< 0.0001	-	0.00100	0.0000170	3.80	0.000400	0.0000900	0.000600	0.313

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Beryllium (Be)-Total	Bismuth (Bi)-Total	Boron (B)-Total	Cadmium (Cd)-Total	Calcium (Ca)-Total	Chromium (Cr)-Total	Cobalt (Co)-Total	Copper (Cu)-Total	Iron (Fe)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ10	Surface		5/31/2011	< 0.0001	-	0.00100	< 0.000015	3.30	0.000400	0.0000800	0.000600	0.254
	WQ10	Surface		6/7/2011	< 0.0001	-	< 0.001	0.0000190	2.90	0.000300	0.0000700	0.000600	0.223
	WQ10	Surface		6/14/2011	< 0.0001	-	< 0.001	< 0.000015	3.10	< 0.0003	0.0000400	0.000700	0.127
	WQ10	Surface		7/19/2011	< 0.0001	-	< 0.001	< 0.000015	4.50	0.000300	0.0000300	0.000600	0.132
	WQ10	Surface		8/16/2011	< 0.0001	-	< 0.001	< 0.000015	7.50	< 0.0003	0.0000300	0.000400	0.0960
	WQ10	Surface		9/20/2011	< 0.0001	-	< 0.001	< 0.000015	11.6	0.000400	< 0.00002	0.000200	0.0408
	WQ10	Surface		10/18/2011	< 0.0001	-	0.00400	< 0.000015	8.80	< 0.0003	< 0.00002	< 0.0001	0.0578
	WQ10	Surface		11/15/2011	< 0.0001	-	< 0.001	< 0.000015	9.80	< 0.0003	< 0.00002	0.000300	0.0536
	WQ10	Surface		12/12/2011	< 0.0001	-	0.00100	< 0.000015	12.0	< 0.0003	< 0.00002	0.000200	0.0373
	WQ10	Surface		1/12/2012	< 0.0001	-	0.00100	< 0.000015	13.2	< 0.0003	< 0.00002	< 0.0001	0.0483
	WQ10	Surface		2/13/2012	< 0.0001	-	< 0.001	< 0.000015	13.9	< 0.0003	< 0.00002	< 0.0001	0.0202
	WQ10	Surface		3/12/2012	< 0.0001	-	< 0.001	< 0.000015	14.6	< 0.0003	< 0.00002	< 0.0001	0.0171
	WQ10	Surface		4/16/2012	< 0.0001	-	< 0.001	< 0.000015	13.1	< 0.0003	< 0.00002	< 0.0001	0.119
	WQ10	Surface		5/14/2012	< 0.0001	-	< 0.001	0.0000160	4.40	< 0.0003	0.0000800	0.000400	0.273
	WQ10	Surface		5/22/2012	< 0.0001	-	< 0.001	< 0.000015	4.10	< 0.0003	0.0000200	0.000400	0.219
	WQ10	Surface		5/29/2012	< 0.0001	-	< 0.001	< 0.000015	3.60	< 0.0003	< 0.00002	0.000600	0.144
	WQ10	Surface		6/5/2012	< 0.0001	-	< 0.001	< 0.000015	3.60	< 0.0003	0.0000400	0.000300	0.153
	WQ10	Surface		6/12/2012	< 0.0001	-	< 0.001	< 0.000015	3.80	< 0.0003	0.0000300	0.000400	0.215
	WQ10	Surface		6/19/2012	< 0.0001	-	< 0.001	< 0.000015	3.80	0.000500	< 0.00002	< 0.0001	0.137
	WQ10	Surface		7/17/2012	< 0.0001	-	< 0.001	< 0.000015	7.00	< 0.0003	< 0.00002	0.000200	0.0721
	WQ10	Surface		8/14/2012	< 0.0001	-	0.00100	< 0.000015	9.30	< 0.0003	< 0.00002	< 0.0001	0.102
	WQ10	Surface		9/18/2012	< 0.0001	-	< 0.001	< 0.000015	13.3	< 0.0003	< 0.00002	0.000200	0.0734
	WQ10	Surface		10/15/2012	< 0.0001	-	< 0.001	< 0.000015	13.4	0.000400	< 0.00002	< 0.0001	0.0791
	WQ10	Surface		11/13/2012	< 0.0001	-	< 0.001	< 0.000015	11.9	0.000400	< 0.00002	< 0.0001	0.0594
	WQ10	Surface		1/13/2013	< 0.0001	-	< 0.001	< 0.000015	16.4	< 0.0003	< 0.00002	0.000100	0.0333
	WQ10	Surface		2/12/2013	< 0.0001	-	< 0.001	< 0.000015	14.9	< 0.0003	< 0.00002	< 0.0001	0.0367
	WQ10	Surface		3/11/2013	< 0.0001	-	< 0.001	< 0.000015	16.3	< 0.0003	< 0.00002	0.000200	0.0381
	WQ10	Surface		4/15/2013	< 0.0001	-	0.00400	< 0.000015	11.0	< 0.0003	0.0000200	0.000500	0.0756
	WQ10	Surface		5/13/2013	< 0.0001	-	< 0.001	< 0.000015	3.60	< 0.0003	0.0000700	0.000700	0.235
	WQ10	Surface		5/22/2013	< 0.0001	-	< 0.001	< 0.000015	3.70	< 0.0003	0.0000400	0.000300	0.156
	WQ10	Surface		5/27/2013	< 0.0001	-	< 0.001	< 0.000015	4.20	< 0.0003	0.0000300	0.000500	0.168
	WQ10	Surface		6/6/2013	< 0.0001	-	0.00100	< 0.000015	4.00	< 0.0003	0.0000500	0.000400	0.131
	WQ10	Surface		6/10/2013	< 0.0001	-	< 0.001	< 0.000015	4.50	< 0.0003	0.0000300	0.000100	0.0875
	WQ10	Surface		6/17/2013	< 0.0001	-	< 0.001	< 0.000015	4.50	< 0.0003	0.0000300	< 0.0001	0.0981
	WQ10	Surface		4/13/2014	< 0.0001	-	< 0.001	< 0.000015	14.0	0.000300	< 0.00002	0.000200	0.0615
	WQ10	Surface		7/2/2014	< 0.0001	-	< 0.001	< 0.000015	7.70	< 0.0003	0.0000200	0.000400	0.0893
	WQ10	Surface	Dup	9/24/2014	< 0.0001	-	< 0.001	< 0.000015	18.2	0.000300	< 0.00002	0.000100	0.0631
	WQ10	Surface		9/24/2014	< 0.0001	-	< 0.001	< 0.000015	18.0	0.000300	< 0.00002	0.000100	0.0626
	WQ10	Surface		12/8/2014	< 0.0001	-	< 0.001	< 0.000015	15.3	0.000300	< 0.00002	< 0.0001	0.0570
L1913006-3	WQ10	Surface		4/11/2017	< 0.00010	< 0.000050	< 0.010	0.00000600	13.1	0.000250	< 0.00010	< 0.00050	0.0870
L1925486-1	WQ10	Surface		5/10/2017	< 0.00010	< 0.000050	< 0.010	0.0000100	4.91	0.000350	< 0.00010	0.000720	0.248
L1939712-10	WQ10	Surface		6/7/2017	< 0.00010	< 0.000050	< 0.010	0.00000600	3.84	0.000310	< 0.00010	0.000540	0.123
L1961670-2	WQ10	Surface		7/18/2017	< 0.00010	< 0.000050	< 0.010	< 0.0000050	8.75	0.000250	< 0.00010	< 0.00050	0.0860
L1984944-10	WQ10	Surface	Dup	8/30/2017	< 0.00010	< 0.000050	< 0.010	< 0.0000050	15.7	0.000280	< 0.00010	< 0.00050	0.0850

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Beryllium (Be)-Total	Bismuth (Bi)-Total	Boron (B)-Total	Cadmium (Cd)-Total	Calcium (Ca)-Total	Chromium (Cr)-Total	Cobalt (Co)-Total	Copper (Cu)-Total	Iron (Fe)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1984944-1	WQ10	Surface		8/30/2017	<0.00010	<0.000050	<0.010	<0.0000050	15.5	0.000290	<0.00010	<0.00050	0.0840
L1988832-1	WQ10	Surface		9/8/2017	<0.00010	<0.000050	<0.010	<0.0000050	15.2	0.000280	<0.00010	<0.00050	0.127
L2011329-2	WQ10	Surface		10/19/2017	<0.00010	<0.000050	<0.010	<0.0000050	7.42	0.000300	<0.00010	0.000510	0.210
L2020946-1	WQ10	Surface		11/8/2017	<0.00010	<0.000050	<0.010	<0.0000050	6.99	0.000300	<0.00010	<0.00050	0.138
L2035356-4	WQ10	Surface		12/12/2017	<0.00010	<0.000050	<0.010	<0.0000050	8.91	0.000250	<0.00010	0.000500	0.104
L2049678-2	WQ10	Surface		1/24/2018	<0.00010	<0.000050	<0.010	<0.0000050	11.4	0.000280	<0.00010	<0.00050	0.101
L2057025-2	WQ10	Surface		2/13/2018	<0.00010	<0.000050	<0.010	<0.0000050	12.0	0.000290	<0.00010	<0.00050	0.0890
L2074294-8	WQ10	Surface	Dup	3/28/2018	<0.00010	<0.000050	<0.010	<0.0000050	12.8	0.000220	<0.00010	<0.00050	0.0750
L2074294-3	WQ10	Surface		3/28/2018	<0.00010	<0.000050	<0.010	<0.0000050	13.0	0.000300	<0.00010	<0.00050	0.0760
L2081503-4	WQ10	Surface		4/17/2018	<0.00010	<0.000050	<0.010	<0.0000050	12.2	0.000270	<0.00010	<0.00050	0.0850
L2097084-3	WQ10	Surface		5/16/2018	<0.00010	<0.000050	<0.010	0.0000188	2.79	0.000670	0.000110	0.000690	0.312
L2103632-3	WQ10	Surface		5/29/2018	<0.00010	<0.000050	<0.010	0.00000600	3.84	0.000270	<0.00010	0.000530	0.104
L2132986-2	WQ10	Surface		7/18/2018	<0.00010	<0.000050	<0.010	<0.0000050	9.42	0.000260	<0.00010	<0.00050	0.0980
L2143640-6	WQ10	Surface		8/7/2018	<0.00010	<0.000050	<0.010	<0.0000050	9.66	0.000260	<0.00010	<0.00050	0.120
L2163669-2	WQ10	Surface		9/11/2018	<0.00010	<0.000050	<0.010	0.00000500	12.1	0.000290	<0.00010	<0.00050	0.100
L2188218-1	WQ10	Surface		10/26/2018	<0.00010	<0.000050	<0.010	<0.0000050	9.33	0.000220	<0.00010	<0.00050	0.0850
L2204508-3	WQ10	Surface		11/29/2018	<0.00010	<0.000050	<0.010	0.00000540	6.93	0.000140	<0.00010	<0.00050	0.0910
L2213246-1	WQ10	Surface		12/18/2018	<0.00010	<0.000050	<0.010	<0.0000050	8.53	0.000380	<0.00010	<0.00050	0.110
L2227701-1	WQ10	Surface		1/30/2019	<0.00010	<0.000050	<0.010	<0.0000050	10.6	0.000280	<0.00010	<0.00050	0.0760
L2232050-6	WQ10	Surface		2/11/2019	<0.00010	<0.000050	<0.010	<0.0000050	12.0	0.000350	<0.00010	<0.00050	0.0760
L2244756-1	WQ10	Surface		3/13/2019	<0.00010	<0.000050	<0.010	<0.0000050	13.8	0.000280	<0.00010	<0.00050	0.0630
L2256053-5	WQ10	Surface	Dup	4/8/2019	<0.00010	<0.000050	<0.010	<0.0000050	10.4	0.000290	<0.00010	<0.00050	0.149
L2256053-1	WQ10	Surface		4/8/2019	<0.00010	<0.000050	<0.010	<0.0000050	10.0	0.000290	<0.00010	<0.00050	0.149
L2273497-1	WQ10	Surface		5/13/2019	<0.00010	<0.000050	<0.010	0.00000830	3.91	0.000290	<0.00010	0.000660	0.170
L2285579-6	WQ10	Surface		6/3/2019	<0.00010	<0.000050	<0.010	0.00000610	4.65	0.000260	<0.00010	<0.00050	0.115
L2312637-1	WQ10	Surface		7/16/2019	<0.00010	<0.000050	<0.010	<0.0000050	5.40	0.000300	<0.00010	<0.00050	0.130
L2326388-1	WQ10	Surface		8/8/2019	<0.00010	<0.000050	<0.010	<0.0000050	5.89	0.000260	<0.00010	0.000530	0.152
L2350223-1	WQ10	Surface		9/17/2019	<0.00010	<0.000050	<0.010	<0.0000050	8.11	0.000240	<0.00010	<0.00050	0.108
L2372667-1	WQ10	Surface		10/23/2019	<0.00010	<0.000050	<0.010	0.00000540	6.35	0.000290	<0.00010	<0.00050	0.119
L2383392-1	WQ10	Surface		11/14/2019	<0.00010	<0.000050	<0.010	0.00000620	5.37	0.000290	<0.00010	0.000530	0.134
VA19A0726-004	WQ10	Surface		12/16/2019	<0.000020	<0.000050	<0.010	<0.0000050	6.84	0.000250	<0.00010	0.000550	0.122
VA20A0812-001	WQ10	Surface		1/23/2020	<0.000020	<0.000050	<0.010	<0.0000050	10.1	0.000240	<0.00010	<0.00050	0.0890
VA20A1887-001	WQ10	Surface		2/13/2020	<0.000100	<0.000050	<0.010	<0.0000050	9.93	0.000230	<0.00010	<0.00050	0.0820
VA20A3516-001	WQ10	Surface		3/16/2020	<0.000020	<0.000050	<0.010	<0.0000050	11.8	0.000240	<0.00010	<0.00050	0.0770
VA20A4369-001	WQ10	Surface		4/1/2020	<0.000020	<0.000050	<0.010	<0.0000050	12.3	0.000280	<0.00010	<0.00050	0.0730
VA20A6218-001	WQ10	Surface		5/7/2020	0.0000370	<0.000050	<0.010	<0.0000050	4.46	0.000340	<0.00010	0.000570	0.150
VA20A6356-002	WQ10	Surface		5/11/2020	0.0000400	<0.000050	<0.010	0.00000720	3.93	0.000320	<0.00010	0.000610	0.180
VA20A6810-003	WQ10	Surface		5/19/2020	0.0000300	<0.000050	<0.010	0.00000940	3.37	0.000260	<0.00010	0.000680	0.146
VA20A7202-003	WQ10	Surface		5/26/2020	0.0000240	<0.000050	<0.010	<0.0000050	2.94	0.000240	<0.00010	<0.00050	0.0690
VA20A7672-002	WQ10	Surface		6/2/2020	0.0000290	<0.000050	<0.010	<0.0000050	3.89	0.000220	<0.00010	<0.00050	0.0890
VA20A9918-003	WQ10	Surface		7/6/2020	0.0000290	<0.000050	<0.010	<0.0000050	5.17	0.000220	<0.00010	<0.00050	0.110
VA20B2156-008	WQ10	Surface	Dup	8/5/2020	<0.000020	<0.000050	<0.010	0.00000540	8.78	0.000220	<0.00010	<0.00050	0.138
VA20B2156-001	WQ10	Surface		8/5/2020	<0.000020	<0.000050	<0.010	<0.0000050	8.72	0.000220	<0.00010	<0.00050	0.149
VA20B2426-004	WQ10	Surface		8/10/2020	<0.000020	<0.000050	<0.010	<0.0000050	7.86	0.000230	<0.00010	<0.00050	0.139

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					Beryllium (Be)-Total	Bismuth (Bi)-Total	Boron (B)-Total	Cadmium (Cd)-Total	Calcium (Ca)-Total	Chromium (Cr)-Total	Cobalt (Co)-Total	Copper (Cu)-Total	Iron (Fe)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
VA20B3264-002	WQ10	Surface		8/19/2020	<0.000020	<0.000050	<0.010	<0.0000050	8.93	0.000240	<0.00010	<0.00050	0.132
VA20B3609-001	WQ10	Surface		8/24/2020	<0.000020	<0.000050	<0.010	<0.0000050	8.14	0.000200	<0.00010	<0.00050	0.144
VA20B4313-001	WQ10	Surface		9/1/2020	<0.000020	<0.000050	<0.010	<0.0000050	8.40	0.000220	<0.00010	<0.00050	0.121
VA20B7624-004	WQ10	Surface		10/6/2020	<0.000020	<0.000050	<0.010	0.00000510	9.18	0.000200	<0.00010	<0.00050	0.121
VA20C0197-003	WQ10	Surface		11/4/2020	0.0000360	<0.000050	<0.010	0.00000680	4.23	0.000340	<0.00010	0.000590	0.233
	WQ11	Surface		3/30/2011	< 0.0001	-	< 0.001	< 0.000015	21.3	< 0.0005	<0.00005	0.000700	0.0474
	WQ11	Surface		4/19/2011	< 0.0001	-	0.00100	< 0.000015	17.0	< 0.0005	<0.00005	0.000500	0.0684
	WQ11	Surface		5/17/2011	< 0.0001	-	0.00100	0.0000270	5.60	0.000600	0.000120	0.00130	0.450
	WQ11	Surface		5/25/2011	< 0.0001	-	0.00200	0.0000250	4.90	0.000600	0.000110	0.00100	0.339
	WQ11	Surface		5/31/2011	< 0.0001	-	0.00100	< 0.000015	4.30	0.000400	0.0000800	0.000900	0.247
	WQ11	Surface		6/6/2011	< 0.0001	-	< 0.001	0.0000220	4.00	0.000500	0.000150	0.00130	0.431
	WQ11	Surface		6/13/2011	< 0.0001	-	0.00100	< 0.000015	4.60	0.000400	0.0000600	0.00130	0.191
	WQ11	Surface		7/18/2011	< 0.0001	-	0.00100	< 0.000015	5.70	0.000500	0.0000500	0.000900	0.237
	WQ11	Surface		8/15/2011	< 0.0001	-	< 0.001	< 0.000015	9.10	< 0.0003	0.0000500	0.000600	0.163
	WQ11	Surface		9/19/2011	< 0.0001	-	< 0.001	< 0.000015	14.9	< 0.0003	< 0.00002	0.000400	0.0243
	WQ11	Surface		10/17/2011	< 0.0001	-	0.00400	< 0.000015	10.7	< 0.0003	0.0000300	0.000300	0.106
	WQ11	Surface		11/14/2011	< 0.0001	-	< 0.001	< 0.000015	11.6	< 0.0003	0.0000300	0.000300	0.0791
	WQ11	Surface		12/12/2011	< 0.0001	-	< 0.001	< 0.000015	15.4	< 0.0003	0.0000200	0.00440	0.0628
	WQ11	Surface		5/15/2012	< 0.0001	-	< 0.001	< 0.000015	5.20	0.000300	0.0000700	0.000800	0.257
	WQ11	Surface		5/22/2012	< 0.0001	-	< 0.001	< 0.000015	4.60	0.000400	0.0000400	0.00910	0.265
	WQ11	Surface		5/28/2012	< 0.0001	-	< 0.001	0.0000690	3.90	< 0.0003	0.0000200	0.000800	0.205
	WQ11	Surface		6/4/2012	< 0.0001	-	< 0.001	< 0.000015	4.50	< 0.0003	0.0000400	0.000600	0.162
	WQ11	Surface		6/11/2012	< 0.0001	-	< 0.001	< 0.000015	5.00	0.000400	0.0000300	0.000600	0.155
	WQ11	Surface		6/18/2012	< 0.0001	-	< 0.001	< 0.000015	5.60	0.000300	0.0000200	0.000300	0.149
	WQ11	Surface		7/16/2012	< 0.0001	-	< 0.001	< 0.000015	9.00	< 0.0003	< 0.00002	0.000400	0.0887
	WQ11	Surface		8/13/2012	< 0.0001	-	0.00200	< 0.000015	9.70	< 0.0003	0.0000300	< 0.0001	0.0966
	WQ11	Surface		9/17/2012	< 0.0001	-	< 0.001	< 0.000015	15.9	< 0.0003	< 0.00002	0.000100	0.0258
	WQ11	Surface		10/15/2012	< 0.0001	-	< 0.001	< 0.000015	20.3	< 0.0003	< 0.00002	< 0.0001	0.00940
	WQ11	Surface		11/13/2012	< 0.0001	-	< 0.001	< 0.000015	15.1	0.000400	0.0000300	< 0.0001	0.0502
	WQ11	Surface		1/13/2013	< 0.0001	-	< 0.001	< 0.000015	23.5	< 0.0003	< 0.00002	0.00150	0.0112
	WQ11	Surface		2/12/2013	< 0.0001	-	< 0.001	< 0.000015	25.1	< 0.0003	0.0000200	< 0.0001	0.0278
	WQ11	Surface		4/15/2013	< 0.0001	-	0.0110	< 0.000015	9.80	0.000500	0.000100	0.00110	0.331
	WQ11	Surface		5/13/2013	< 0.0001	-	< 0.001	< 0.000015	4.10	0.000300	0.0000600	0.000800	0.228
	WQ11	Surface		5/22/2013	< 0.0001	-	< 0.001	< 0.000015	4.60	< 0.0003	0.0000600	0.000600	0.202
	WQ11	Surface		5/27/2013	< 0.0001	-	< 0.001	< 0.000015	5.70	< 0.0003	0.0000500	0.00100	0.229
	WQ11	Surface		6/6/2013	< 0.0001	-	0.00200	< 0.000015	5.70	< 0.0003	0.0000600	0.00110	0.202
	WQ11	Surface		6/10/2013	< 0.0001	-	< 0.001	< 0.000015	6.70	< 0.0003	0.0000500	0.000500	0.170
	WQ11	Surface		6/17/2013	< 0.0001	-	< 0.001	< 0.000015	6.20	< 0.0003	0.0000700	< 0.0001	0.170
L1762266-2	WQ11	Surface		4/27/2016	<0.00010	<0.000050	<0.010	0.00000800	5.32	0.000480	<0.00010	0.00117	0.234
L1764648-1	WQ11	Surface		5/3/2016	<0.00010	<0.000050	<0.010	<0.0000050	5.56	0.000420	<0.00010	0.000970	0.185
L1767107-6	WQ11	Surface	Dup	5/9/2016	<0.00010	<0.000050	<0.010	<0.0000050	6.05	0.000420	<0.00010	0.000850	0.167
L1767107-2	WQ11	Surface		5/9/2016	<0.00010	<0.000050	<0.010	<0.0000050	6.31	0.000490	<0.00010	0.000950	0.164
L1770672-5	WQ11	Surface	Dup	5/16/2016	<0.00010	<0.000050	<0.010	<0.0000050	7.18	0.000360	<0.00010	0.000830	0.112
L1770672-1	WQ11	Surface		5/16/2016	<0.00010	<0.000050	<0.010	0.00000600	7.19	0.000370	<0.00010	0.000870	0.121

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Beryllium (Be)-Total	Bismuth (Bi)-Total	Boron (B)-Total	Cadmium (Cd)-Total	Calcium (Ca)-Total	Chromium (Cr)-Total	Cobalt (Co)-Total	Copper (Cu)-Total	Iron (Fe)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1774541-1	WQ11	Surface		5/25/2016	<0.00010	<0.000050	<0.010	<0.0000050	8.91	0.000350	<0.00010	0.000780	0.0830
L1788643-1	WQ11	Surface		6/22/2016	<0.00010	<0.000050	<0.010	<0.0000050	6.10	0.000460	<0.00010	0.000880	0.178
L1808945-1	WQ11	Surface		8/3/2016	<0.00010	<0.000050	<0.010	<0.0000050	8.18	0.000390	<0.00010	0.000950	0.106
L1812856-1	WQ11	Surface		8/10/2016	<0.00010	<0.000050	<0.010	<0.0000050	9.43	0.000460	<0.00010	0.000750	0.105
L1815654-1	WQ11	Surface		8/16/2016	<0.00010	<0.000050	<0.010	<0.0000050	9.73	0.00127	<0.00010	0.000590	0.0670
L1819041-6	WQ11	Surface		8/23/2016	<0.00010	<0.000050	<0.010	<0.0000050	10.3	0.000380	<0.00010	0.000670	0.104
L1823224-4	WQ11	Surface		8/31/2016	<0.00010	<0.000050	<0.010	<0.0000050	11.0	0.000310	<0.00010	0.00106	0.0800
L1826303-3	WQ11	Surface		9/7/2016	<0.00010	<0.000050	<0.010	<0.0000050	10.0	0.000370	<0.00010	0.000650	0.106
	WQ12	Surface		4/19/2011	< 0.0001	-	< 0.001	< 0.000015	7.70	< 0.0005	<0.00005	0.000400	0.158
	WQ12	Surface		5/17/2011	< 0.0001	-	< 0.001	0.0000210	4.60	0.000400	0.000110	0.000700	0.426
	WQ12	Surface		5/24/2011	< 0.0001	-	0.00100	0.0000170	4.50	< 0.0003	0.0000500	0.000500	0.182
	WQ12	Surface		5/30/2011	< 0.0001	-	< 0.001	< 0.000015	4.10	< 0.0003	0.0000400	0.000400	0.127
	WQ12	Surface		6/6/2011	< 0.0001	-	< 0.001	< 0.000015	4.00	< 0.0003	0.0000300	0.000400	0.104
	WQ12	Surface		6/13/2011	< 0.0001	-	< 0.001	< 0.000015	4.70	< 0.0003	0.0000300	0.000600	0.141
	WQ12	Surface		7/18/2011	< 0.0001	-	< 0.001	< 0.000015	5.30	< 0.0003	<0.00002	0.00250	0.136
	WQ12	Surface		8/15/2011	< 0.0001	-	< 0.001	< 0.000015	6.00	< 0.0003	0.0000300	0.000300	0.137
	WQ12	Surface		9/19/2011	< 0.0001	-	< 0.001	< 0.000015	6.60	< 0.0003	0.0000200	0.000500	0.147
	WQ12	Surface		10/17/2011	< 0.0001	-	0.00400	< 0.000015	6.30	< 0.0003	0.0000300	0.000100	0.119
	WQ12	Surface		11/14/2011	< 0.0001	-	< 0.001	< 0.000015	6.00	< 0.0003	0.0000300	0.000200	0.140
	WQ12	Surface		12/12/2011	< 0.0001	-	< 0.001	< 0.000015	7.30	< 0.0003	0.0000500	0.000200	0.240
	WQ12	Surface		1/12/2012	< 0.0001	-	< 0.001	< 0.000015	7.20	< 0.0003	0.0000300	< 0.0001	0.192
	WQ12	Surface		2/13/2012	< 0.0001	-	< 0.001	< 0.000015	7.30	< 0.0003	0.0000500	0.000500	0.297
	WQ12	Surface	Dup	3/12/2012	< 0.0001	-	< 0.001	< 0.000015	7.30	< 0.0003	0.0000600	< 0.0001	0.288
	WQ12	Surface		3/12/2012	< 0.0001	-	< 0.001	0.0000170	7.50	0.000500	0.000180	< 0.0001	0.628
	WQ12	Surface		4/16/2012	< 0.0001	-	< 0.001	< 0.000015	7.10	< 0.0003	0.000120	0.000100	0.556
	WQ12	Surface		5/15/2012	< 0.0001	-	< 0.001	0.0000270	4.70	< 0.0003	0.0000600	0.000400	0.222
	WQ12	Surface		5/22/2012	< 0.0001	-	< 0.001	< 0.000015	4.40	< 0.0003	< 0.00002	0.000700	0.151
	WQ12	Surface		5/28/2012	< 0.0001	-	< 0.001	0.0000440	4.60	< 0.0003	< 0.00002	0.000400	0.113
	WQ12	Surface		6/4/2012	< 0.0001	-	< 0.001	< 0.000015	4.90	< 0.0003	0.0000200	0.000200	0.123
	WQ12	Surface		6/11/2012	< 0.0001	-	< 0.001	< 0.000015	4.90	0.000700	0.0000200	0.000200	0.121
	WQ12	Surface		6/18/2012	< 0.0001	-	< 0.001	< 0.000015	5.10	0.000400	< 0.00002	< 0.0001	0.119
	WQ12	Surface		7/16/2012	< 0.0001	-	< 0.001	< 0.000015	6.10	0.000400	< 0.00002	0.000200	0.139
	WQ12	Surface		8/13/2012	< 0.0001	-	< 0.001	< 0.000015	7.50	< 0.0003	0.0000200	< 0.0001	0.291
	WQ12	Surface		9/17/2012	< 0.0001	-	< 0.001	< 0.000015	8.40	< 0.0003	0.0000300	< 0.0001	0.352
	WQ12	Surface		10/15/2012	< 0.0001	-	< 0.001	< 0.000015	9.00	< 0.0003	0.0000300	< 0.0001	0.534
	WQ12	Surface		11/13/2012	< 0.0001	-	< 0.001	< 0.000015	7.30	< 0.0003	0.0000300	< 0.0001	0.202
	WQ12	Surface		1/13/2013	< 0.0001	-	< 0.001	< 0.000015	7.30	< 0.0003	0.0000300	0.000700	0.343
	WQ12	Surface		2/12/2013	< 0.0001	-	< 0.001	< 0.000015	7.10	0.0247	0.0000600	0.000600	0.511
	WQ12	Surface		3/11/2013	< 0.0001	-	< 0.001	< 0.000015	7.80	< 0.0003	0.0000300	0.000200	0.230
	WQ12	Surface		4/15/2013	< 0.0001	-	0.00300	< 0.000015	6.10	< 0.0003	0.0000600	0.000600	0.217
	WQ12	Surface		5/13/2013	< 0.0001	-	< 0.001	< 0.000015	5.00	< 0.0003	0.0000300	0.000500	0.158
	WQ12	Surface		5/22/2013	< 0.0001	-	< 0.001	< 0.000015	4.70	< 0.0003	0.0000300	0.000100	0.119
	WQ12	Surface		5/27/2013	< 0.0001	-	< 0.001	< 0.000015	5.50	< 0.0003	< 0.00002	0.000500	0.127
	WQ12	Surface		6/6/2013	< 0.0001	-	0.00100	< 0.000015	5.20	< 0.0003	0.0000300	0.000300	0.0973

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					Beryllium (Be)-Total	Bismuth (Bi)-Total	Boron (B)-Total	Cadmium (Cd)-Total	Calcium (Ca)-Total	Chromium (Cr)-Total	Cobalt (Co)-Total	Copper (Cu)-Total	Iron (Fe)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ12	Surface		6/10/2013	< 0.0001	-	< 0.001	< 0.000015	5.70	< 0.0003	0.0000300	0.000100	0.100
	WQ12	Surface		6/17/2013	< 0.0001	-	< 0.001	< 0.000015	5.40	< 0.0003	0.0000300	< 0.0001	0.107
	WQ13	Surface		4/19/2011	< 0.0001	-	0.00100	< 0.000015	22.9	< 0.0005	0.0000600	0.000300	0.323
	WQ13	Surface		5/17/2011	< 0.0001	-	0.00100	0.0000190	14.2	0.000300	0.0000700	0.000700	0.257
	WQ13	Surface		5/24/2011	< 0.0001	-	0.00200	0.0000220	15.4	< 0.0003	0.0000800	0.000600	0.232
	WQ13	Surface		5/30/2011	< 0.0001	-	0.00200	< 0.000015	15.3	< 0.0003	0.0000600	0.00120	0.182
	WQ13	Surface		6/6/2011	< 0.0001	-	0.00100	0.0000270	14.5	< 0.0003	0.0000500	0.000600	0.148
	WQ13	Surface		6/13/2011	< 0.0001	-	0.00200	< 0.000015	15.0	< 0.0003	0.0000500	0.000700	0.147
	WQ13	Surface		7/18/2011	< 0.0001	-	0.00100	< 0.000015	15.7	< 0.0003	0.0000400	0.000600	0.212
	WQ13	Surface		8/15/2011	< 0.0001	-	0.00200	< 0.000015	18.0	< 0.0003	0.0000400	0.000500	0.169
	WQ13	Surface		9/19/2011	< 0.0001	-	< 0.001	< 0.000015	19.0	< 0.0003	0.0000400	0.000400	0.305
	WQ13	Surface		10/17/2011	< 0.0001	-	0.00400	< 0.000015	19.3	< 0.0003	0.0000400	0.000200	0.260
	WQ13	Surface		11/14/2011	< 0.0001	-	0.00100	< 0.000015	19.3	< 0.0003	0.0000500	0.000300	0.233
	WQ13	Surface		12/13/2011	< 0.0001	-	0.00100	< 0.000015	20.6	< 0.0003	0.0000300	0.000400	0.175
	WQ13	Surface		1/12/2012	< 0.0001	-	0.00200	< 0.000015	23.2	< 0.0003	0.0000400	< 0.0001	0.181
	WQ13	Surface		2/13/2012	< 0.0001	-	< 0.001	< 0.000015	21.4	< 0.0003	< 0.00002	0.000400	0.164
	WQ13	Surface		3/12/2012	< 0.0001	-	0.00100	< 0.000015	21.7	< 0.0003	0.0000400	< 0.0001	0.212
	WQ13	Surface		4/16/2012	< 0.0001	-	< 0.001	< 0.000015	18.9	< 0.0003	0.0000900	0.000200	0.352
	WQ13	Surface		5/15/2012	< 0.0001	-	< 0.001	< 0.000015	15.9	< 0.0003	0.0000800	0.000400	0.249
	WQ13	Surface		5/22/2012	< 0.0001	-	< 0.001	< 0.000015	15.2	< 0.0003	0.0000400	0.000300	0.261
	WQ13	Surface		5/28/2012	< 0.0001	-	< 0.001	0.0000590	14.3	< 0.0003	< 0.00002	0.000300	0.150
	WQ13	Surface		6/4/2012	< 0.0001	-	< 0.001	< 0.000015	19.9	< 0.0003	0.0000400	0.000300	0.141
	WQ13	Surface	Dup	6/11/2012	< 0.0001	-	< 0.001	< 0.000015	15.7	< 0.0003	0.0000300	0.000300	0.136
	WQ13	Surface		6/11/2012	< 0.0001	-	0.00900	< 0.000015	15.7	< 0.0003	0.0000200	0.00230	0.0685
	WQ13	Surface		6/18/2012	< 0.0001	-	< 0.001	< 0.000015	16.4	< 0.0003	< 0.00002	< 0.0001	0.141
	WQ13	Surface		7/16/2012	< 0.0001	-	< 0.001	< 0.000015	18.5	< 0.0003	< 0.00002	0.000300	0.139
	WQ13	Surface		8/13/2012	< 0.0001	-	0.00200	< 0.000015	20.2	< 0.0003	0.0000400	< 0.0001	0.171
	WQ13	Surface		9/17/2012	< 0.0001	-	< 0.001	< 0.000015	20.8	< 0.0003	0.0000400	0.000200	0.205
	WQ13	Surface		10/15/2012	< 0.0001	-	< 0.001	< 0.000015	22.0	< 0.0003	0.0000300	0.000100	0.228
	WQ13	Surface		11/12/2012	< 0.0001	-	< 0.001	< 0.000015	19.7	0.000300	0.0000400	< 0.0001	0.221
	WQ13	Surface		1/15/2013	< 0.0001	-	< 0.001	0.0000250	23.2	< 0.0003	0.000120	0.00140	0.945
	WQ13	Surface		5/14/2013	< 0.0001	-	< 0.001	< 0.000015	15.0	< 0.0003	0.0000600	0.000500	0.202
	WQ13	Surface		5/22/2013	< 0.0001	-	< 0.001	< 0.000015	5.00	< 0.0003	0.0000500	0.000100	0.162
	WQ13	Surface		5/28/2013	< 0.0001	-	0.00100	0.0000280	17.1	< 0.0003	0.0000500	0.000700	0.172
	WQ13	Surface		6/4/2013	< 0.0001	-	0.00200	< 0.000015	16.4	< 0.0003	0.0000500	0.000200	0.116
	WQ13	Surface		6/10/2013	< 0.0001	-	< 0.001	0.000221	18.0	< 0.0003	0.0000400	< 0.0001	0.112
	WQ13	Surface		6/18/2013	< 0.0001	-	< 0.001	< 0.000015	16.7	< 0.0003	0.0000500	< 0.0001	0.143
L1913531-4	WQ13	Surface	Dup	4/12/2017	<0.00010	<0.000050	<0.010	<0.0000050	18.4	0.000180	<0.00010	<0.00050	0.212
L1913531-2	WQ13	Surface		4/12/2017	<0.00010	<0.000050	<0.010	<0.0000050	17.4	0.000170	<0.00010	<0.00050	0.211
L1926080-1	WQ13	Surface		5/11/2017	<0.00010	<0.000050	<0.010	<0.0000050	16.8	0.000300	<0.00010	0.000620	0.231
L1939712-11	WQ13	Surface		6/7/2017	<0.00010	<0.000050	<0.010	<0.0000050	16.4	0.000210	<0.00010	<0.00050	0.164
L1964508-2	WQ13	Surface		7/24/2017	<0.00010	<0.000050	<0.010	<0.0000050	18.7	0.000150	<0.00010	<0.00050	0.0930
L1984944-8	WQ13	Surface		8/30/2017	<0.00010	<0.000050	<0.010	<0.0000050	20.4	0.000110	<0.00010	<0.00050	0.181
L1988832-7	WQ13	Surface		9/9/2017	<0.00010	<0.000050	<0.010	<0.0000050	21.0	<0.00010	<0.00010	<0.00050	0.181

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					Beryllium (Be)-Total	Bismuth (Bi)-Total	Boron (B)-Total	Cadmium (Cd)-Total	Calcium (Ca)-Total	Chromium (Cr)-Total	Cobalt (Co)-Total	Copper (Cu)-Total	Iron (Fe)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2009845-1	WQ13	Surface		10/17/2017	<0.00010	<0.000050	<0.010	0.00000700	17.8	0.000150	<0.00010	0.000540	0.241
L2020333-1	WQ13	Surface		11/7/2017	<0.00010	<0.000050	<0.010	<0.0000050	18.4	0.000320	<0.00010	<0.00050	0.202
L2034610-4	WQ13	Surface		12/11/2017	<0.00010	<0.000050	<0.010	<0.0000050	21.2	<0.00010	<0.00010	<0.00050	0.143
L2049224-3	WQ13	Surface		1/23/2018	<0.00010	<0.000050	<0.010	<0.0000050	20.5	0.000180	<0.00010	<0.00050	0.175
L2060442-3	WQ13	Surface		2/23/2018	<0.00010	<0.000050	<0.010	<0.0000050	19.4	<0.00010	<0.00010	0.000520	0.167
L2074294-7	WQ13	Surface		3/28/2018	<0.00010	<0.000050	<0.010	<0.0000050	20.3	0.000590	<0.00010	<0.00050	0.225
L2081505-5	WQ13	Surface		4/16/2018	<0.00010	<0.000050	<0.010	<0.0000050	20.6	0.000150	<0.00010	0.000740	0.252
L2097084-4	WQ13	Surface		5/16/2018	<0.00010	<0.000050	<0.010	<0.0000050	14.2	0.000310	<0.00010	0.000650	0.168
L2104479-4	WQ13	Surface		5/30/2018	<0.00010	<0.000050	<0.010	<0.0000050	15.5	0.000200	<0.00010	0.000560	0.115
L2132986-1	WQ13	Surface		7/18/2018	<0.00010	<0.000050	<0.010	0.00000940	18.5	0.000160	<0.00010	0.000810	0.114
L2144782-5	WQ13	Surface		8/9/2018	<0.00010	<0.000050	<0.010	<0.0000050	18.2	0.000160	<0.00010	0.000530	0.145
L2164448-1	WQ13	Surface		9/12/2018	<0.00010	<0.000050	<0.010	<0.0000050	19.5	0.000140	<0.00010	0.000510	0.146
L2188218-5	WQ13	Surface		10/26/2018	<0.00010	<0.000050	<0.010	<0.0000050	20.9	0.000150	<0.00010	0.000700	0.161
L2203408-5	WQ13	Surface		11/27/2018	<0.00010	<0.000050	<0.010	<0.0000050	18.3	0.000140	<0.00010	<0.00050	0.138
L2213684-4	WQ13	Surface		12/19/2018	<0.00010	<0.000050	<0.010	<0.0000050	19.3	0.000100	<0.00010	<0.00050	0.101
L2227101-4	WQ13	Surface		1/29/2019	<0.00010	<0.000050	<0.010	<0.0000050	20.8	<0.00010	<0.00010	<0.00050	<0.20
L2232050-7	WQ13	Surface		2/11/2019	<0.00010	<0.000050	<0.010	0.00000590	20.2	0.000130	<0.00010	<0.00050	0.0850
L2245144-2	WQ13	Surface		3/14/2019	<0.00010	<0.000050	<0.010	<0.0000050	20.6	0.000110	<0.00010	<0.00050	0.0900
L2256054-4	WQ13	Surface		4/9/2019	<0.00010	<0.000050	<0.010	<0.0000050	18.2	0.000180	<0.00010	0.000600	0.208
L2274397-3	WQ13	Surface		5/14/2019	<0.00010	<0.000050	<0.010	<0.0000050	16.4	0.000210	<0.00010	0.000560	0.161
L2286702-4	WQ13	Surface		6/4/2019	<0.00010	<0.000050	<0.010	<0.0000050	17.6	<0.00050	<0.00010	<0.00050	0.110
L2312637-2	WQ13	Surface		7/16/2019	<0.00010	<0.000050	<0.010	<0.0000050	17.7	0.000150	<0.00010	<0.00050	0.108
L2326388-5	WQ13	Surface		8/8/2019	<0.00010	<0.000050	<0.010	<0.0000050	16.8	0.000140	<0.00010	0.000510	0.138
L2349445-4	WQ13	Surface		9/16/2019	<0.00010	<0.000050	<0.010	<0.0000050	17.8	0.000140	<0.00010	0.000550	0.162
L2372667-4	WQ13	Surface		10/23/2019	<0.00010	<0.000050	<0.010	<0.0000050	18.1	0.000190	<0.00010	<0.00050	0.142
L2388381-4	WQ13	Surface		11/25/2019	<0.00010	<0.000050	<0.010	<0.0000050	16.7	0.000140	<0.00010	<0.00050	0.139
VA19A0791-005	WQ13	Surface	Dup	12/17/2019	<0.000020	<0.000050	<0.010	<0.0000050	19.2	0.000210	<0.00010	0.000510	0.108
VA19A0791-004	WQ13	Surface		12/17/2019	<0.000020	<0.000050	<0.010	0.0000113	18.8	0.000110	<0.00010	0.000580	0.112
VA20A0960-004	WQ13	Surface		1/27/2020	<0.000020	<0.000050	<0.010	<0.0000050	19.3	0.000120	<0.00010	<0.00050	0.102
VA20A2126-003	WQ13	Surface		2/19/2020	<0.000020	<0.000050	<0.010	<0.0000050	20.9	<0.00010	<0.00010	<0.00050	0.101
VA20A3691-001	WQ13	Surface		3/18/2020	<0.000020	<0.000050	<0.010	<0.0000050	20.2	0.000110	<0.00010	<0.00050	0.117
VA20A4555-005	WQ13	Surface		4/7/2020	<0.000020	<0.000050	<0.010	<0.0000050	22.3	0.000230	<0.00010	<0.00050	0.201
VA20A6218-004	WQ13	Surface		5/7/2020	<0.000020	<0.000050	<0.010	<0.0000050	16.2	0.000200	<0.00010	0.000540	0.110
VA20A6356-003	WQ13	Surface		5/11/2020	<0.000020	<0.000050	<0.010	0.00000580	15.1	0.000220	<0.00010	0.000560	0.159
VA20A6869-003	WQ13	Surface		5/20/2020	<0.000020	<0.000050	<0.010	<0.0000050	13.6	0.000190	<0.00010	0.000540	0.150
VA20A7367-003	WQ13	Surface		5/28/2020	<0.000020	<0.000050	<0.010	<0.0000050	16.1	0.000230	<0.00010	0.000770	0.178
VA20A7797-003	WQ13	Surface		6/3/2020	<0.000020	<0.000050	<0.010	<0.0000050	16.3	0.000180	<0.00010	0.000510	0.129
VA20B0021-003	WQ13	Surface		7/7/2020	<0.000020	<0.000050	<0.010	<0.0000050	16.2	0.000160	<0.00010	0.000560	0.143
VA20B2156-003	WQ13	Surface		8/5/2020	<0.000020	<0.000050	<0.010	<0.0000050	17.8	<0.00010	<0.00010	<0.00050	0.100
VA20B2542-004	WQ13	Surface		8/11/2020	<0.000020	<0.000050	<0.010	<0.0000050	18.7	0.000130	<0.00010	<0.00050	0.117
VA20B3218-002	WQ13	Surface		8/18/2020	<0.000020	<0.000050	<0.010	<0.0000050	20.1	0.000130	<0.00010	0.000540	0.167
VA20B3860-003	WQ13	Surface		8/26/2020	<0.000020	<0.000050	<0.010	<0.0000050	19.1	0.000120	<0.00010	<0.00050	0.164
VA20B4313-003	WQ13	Surface		9/1/2020	<0.000020	<0.000050	<0.010	<0.0000050	18.0	0.000120	<0.00010	<0.00050	0.183
VA20B7828-003	WQ13	Surface		10/8/2020	<0.000020	<0.000050	<0.010	<0.0000050	17.6	0.000140	<0.00010	<0.00050	0.192

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Beryllium (Be)-Total	Bismuth (Bi)-Total	Boron (B)-Total	Cadmium (Cd)-Total	Calcium (Ca)-Total	Chromium (Cr)-Total	Cobalt (Co)-Total	Copper (Cu)-Total	Iron (Fe)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
VA20C1281-002	WQ13	Surface	Dup	11/18/2020	<0.000020	<0.000050	<0.010	<0.0000050	18.2	0.000150	<0.00010	<0.00050	0.132
VA20C1281-001	WQ13	Surface		11/18/2020	<0.000020	<0.000050	<0.010	<0.0000050	18.2	0.000230	<0.00010	<0.00050	0.190
	WQ14	Surface		5/24/2011	< 0.0001	-	0.00300	< 0.000015	11.2	< 0.0003	0.0000600	0.000800	0.422
	WQ14	Surface		5/30/2011	< 0.0001	-	0.00300	< 0.000015	11.7	< 0.0003	0.0000400	0.00180	0.257
	WQ14	Surface		6/6/2011	< 0.0001	-	0.00200	0.0000380	13.5	< 0.0003	0.0000300	0.000800	0.164
	WQ14	Surface		6/13/2011	< 0.0001	-	0.00200	< 0.000015	15.8	< 0.0003	0.0000300	0.000600	0.154
	WQ14	Surface	Dup	7/18/2011	< 0.0001	-	0.00200	< 0.000015	19.2	< 0.0003	0.0000300	0.000500	0.318
	WQ14	Surface		7/18/2011	< 0.0001	-	0.00200	0.0000180	20.2	0.00120	0.000270	0.00170	1.80
	WQ14	Surface		8/15/2011	< 0.0001	-	0.00200	< 0.000015	25.6	< 0.0003	0.0000500	0.000200	0.572
	WQ14	Surface		9/19/2011	< 0.0001	-	< 0.001	< 0.000015	28.0	< 0.0003	< 0.00002	0.000200	0.327
	WQ14	Surface		10/17/2011	< 0.0001	-	0.00300	< 0.000015	24.6	< 0.0003	0.0000300	< 0.0001	0.259
	WQ14	Surface	Dup	11/14/2011	< 0.0001	-	0.00100	< 0.000015	25.4	< 0.0003	0.0000300	< 0.0001	0.200
	WQ14	Surface		11/14/2011	< 0.0001	-	0.00100	< 0.000015	25.4	< 0.0003	0.0000300	< 0.0001	0.217
	WQ14	Surface		12/13/2011	< 0.0001	-	0.00200	0.0000190	30.8	< 0.0003	0.0000400	0.000200	0.316
	WQ14	Surface	Dup	1/12/2012	< 0.0001	-	0.00100	< 0.000015	21.9	< 0.0003	0.0000400	0.000100	0.156
	WQ14	Surface		1/12/2012	< 0.0001	-	0.00200	< 0.000015	31.2	< 0.0003	0.0000500	< 0.0001	0.478
	WQ14	Surface		4/17/2012	< 0.0001	-	< 0.001	< 0.000015	22.3	< 0.0003	0.0000600	< 0.0001	0.506
	WQ14	Surface		5/23/2012	< 0.0001	-	< 0.001	< 0.000015	14.0	< 0.0003	< 0.00002	0.000200	0.144
	WQ14	Surface		5/28/2012	< 0.0001	-	< 0.001	< 0.000015	13.4	< 0.0003	< 0.00002	0.000300	0.131
	WQ14	Surface	Dup	6/4/2012	< 0.0001	-	< 0.001	< 0.000015	14.8	< 0.0003	< 0.00002	0.000200	0.141
	WQ14	Surface		6/4/2012	< 0.0001	-	< 0.001	< 0.000015	14.9	< 0.0003	0.0000200	0.000300	0.147
	WQ14	Surface		6/11/2012	< 0.0001	-	< 0.001	< 0.000015	17.1	< 0.0003	< 0.00002	0.000300	0.170
	WQ14	Surface		6/18/2012	< 0.0001	-	0.00100	< 0.000015	18.6	< 0.0003	< 0.00002	< 0.0001	0.258
	WQ14	Surface		7/16/2012	< 0.0001	-	< 0.001	< 0.000015	25.9	< 0.0003	< 0.00002	< 0.0001	0.336
	WQ14	Surface		8/13/2012	< 0.0001	-	0.00200	< 0.000015	28.6	< 0.0003	0.0000200	< 0.0001	0.447
	WQ14	Surface		9/17/2012	< 0.0001	-	< 0.001	< 0.000015	28.6	< 0.0003	< 0.00002	< 0.0001	0.229
	WQ14	Surface		10/16/2012	< 0.0001	-	< 0.001	< 0.000015	28.7	< 0.0003	0.0000200	0.000300	0.206
	WQ14	Surface		11/12/2012	< 0.0001	-	< 0.001	< 0.000015	29.1	< 0.0003	0.0000200	< 0.0001	0.200
	WQ14	Surface		12/10/2012	< 0.0001	-	0.00200	0.0000820	33.6	0.000800	0.0000500	< 0.0001	0.353
	WQ14	Surface		4/16/2013	< 0.0001	-	0.00100	< 0.000015	22.0	< 0.0003	0.0000300	0.000600	0.242
	WQ14	Surface	Dup	5/14/2013	< 0.0001	-	< 0.001	< 0.000015	13.6	< 0.0003	0.0000300	0.000500	0.180
	WQ14	Surface		5/14/2013	< 0.0001	-	< 0.001	< 0.000015	13.6	< 0.0003	0.0000400	0.000500	0.251
	WQ14	Surface		5/21/2013	< 0.0001	-	0.00100	< 0.000015	15.7	< 0.0003	0.0000300	< 0.0001	0.151
	WQ14	Surface		5/28/2013	< 0.0001	-	0.00200	< 0.000015	18.3	< 0.0003	< 0.00002	0.000400	0.127
	WQ14	Surface		6/4/2013	< 0.0001	-	0.00300	< 0.000015	16.0	< 0.0003	0.0000300	0.000300	0.125
	WQ14	Surface	Dup	6/11/2013	< 0.0001	-	0.00100	0.0000190	18.9	< 0.0003	0.0000200	< 0.0001	0.162
	WQ14	Surface		6/11/2013	< 0.0001	-	0.00100	< 0.000015	19.4	< 0.0003	0.0000400	< 0.0001	0.163
	WQ14	Surface		6/18/2013	< 0.0001	-	0.0220	0.0000570	186	< 0.0003	0.000310	< 0.0001	1.61
	WQ15	Surface		9/24/2012	< 0.0001	-	< 0.001	< 0.000015	8.00	< 0.0003	0.0000300	< 0.0001	0.183
	WQ15	Surface		10/15/2012	< 0.0001	-	< 0.001	< 0.000015	8.00	< 0.0003	0.0000300	0.00110	0.122
	WQ15	Surface		11/13/2012	< 0.0001	-	< 0.001	< 0.000015	7.80	< 0.0003	< 0.00002	< 0.0001	0.0691
	WQ15	Surface		1/13/2013	< 0.0001	-	< 0.001	< 0.000015	9.20	< 0.0003	< 0.00002	0.000300	0.109
	WQ15	Surface		2/12/2013	< 0.0001	-	< 0.001	< 0.000015	8.40	< 0.0003	0.0000200	< 0.0001	0.147
	WQ15	Surface		3/11/2013	< 0.0001	-	< 0.001	< 0.000015	9.00	< 0.0003	< 0.00002	0.000200	0.100

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Beryllium (Be)-Total	Bismuth (Bi)-Total	Boron (B)-Total	Cadmium (Cd)-Total	Calcium (Ca)-Total	Chromium (Cr)-Total	Cobalt (Co)-Total	Copper (Cu)-Total	Iron (Fe)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ15	Surface		4/15/2013	< 0.0001	-	0.00300	< 0.000015	7.50	< 0.0003	< 0.00002	0.000600	0.0420
	WQ15	Surface		5/13/2013	< 0.0001	-	< 0.001	< 0.000015	6.30	< 0.0003	0.0000300	0.000300	0.263
	WQ15	Surface		5/22/2013	< 0.0001	-	< 0.001	< 0.000015	16.3	< 0.0003	0.0000500	< 0.0001	0.176
	WQ15	Surface		5/27/2013	< 0.0001	-	< 0.001	< 0.000015	7.30	< 0.0003	< 0.00002	0.000200	0.151
	WQ15	Surface		6/6/2013	< 0.0001	-	0.00100	< 0.000015	6.40	< 0.0003	< 0.00002	0.000200	0.116
	WQ15	Surface		6/10/2013	< 0.0001	-	< 0.001	< 0.000015	6.70	< 0.0003	0.0000200	0.000200	0.117
	WQ15	Surface		6/17/2013	< 0.0001	-	< 0.001	< 0.000015	6.40	< 0.0003	0.0000400	< 0.0001	0.113
	WQ15	Surface		4/13/2014	< 0.0001	-	< 0.001	< 0.000015	8.40	< 0.0003	< 0.00002	0.000200	0.0950
	WQ15	Surface		7/2/2014	< 0.0001	-	< 0.001	< 0.000015	7.30	< 0.0003	< 0.00002	0.000300	0.154
	WQ15	Surface		9/24/2014	< 0.0001	-	< 0.001	< 0.000015	9.60	< 0.0003	0.0000400	0.000200	0.264
	WQ15	Surface		12/8/2014	< 0.0001	-	< 0.001	< 0.000015	8.60	< 0.0003	< 0.00002	0.000200	0.0573
	WQ16	Surface		9/24/2012	< 0.0001	-	< 0.001	< 0.000015	5.80	< 0.0003	0.0000500	< 0.0001	0.119
	WQ16	Surface		10/15/2012	< 0.0001	-	< 0.001	< 0.000015	5.60	< 0.0003	0.0000300	< 0.0001	0.0743
	WQ16	Surface		11/13/2012	< 0.0001	-	< 0.001	< 0.000015	6.20	< 0.0003	< 0.00002	< 0.0001	0.0141
	WQ16	Surface		1/13/2013	< 0.0001	-	< 0.001	< 0.000015	6.80	< 0.0003	< 0.00002	0.000200	0.104
	WQ16	Surface		2/12/2013	< 0.0001	-	< 0.001	< 0.000015	7.50	< 0.0003	< 0.00002	< 0.0001	0.103
	WQ16	Surface		3/11/2013	< 0.0001	-	< 0.001	0.0000370	7.30	0.000500	0.000120	0.000700	0.639
	WQ16	Surface		4/15/2013	< 0.0001	-	0.00200	< 0.000015	6.10	< 0.0003	< 0.00002	0.000500	0.0492
	WQ16	Surface		5/13/2013	< 0.0001	-	< 0.001	0.0000630	5.50	< 0.0003	0.0000200	0.000300	0.184
	WQ16	Surface		5/22/2013	< 0.0001	-	< 0.001	< 0.000015	6.20	< 0.0003	0.0000200	< 0.0001	0.205
	WQ16	Surface		5/27/2013	< 0.0001	-	< 0.001	< 0.000015	6.40	< 0.0003	< 0.00002	0.000200	0.0956
	WQ16	Surface		6/6/2013	< 0.0001	-	0.00100	< 0.000015	5.50	< 0.0003	< 0.00002	< 0.0001	0.0617
	WQ16	Surface		6/10/2013	< 0.0001	-	< 0.001	0.000126	6.00	< 0.0003	0.0000600	< 0.0001	0.387
	WQ16	Surface		6/17/2013	< 0.0001	-	< 0.001	< 0.000015	5.50	< 0.0003	0.0000200	< 0.0001	0.0362
	WQ16	Surface		4/13/2014	< 0.0001	-	< 0.001	< 0.000015	6.40	< 0.0003	< 0.00002	0.000200	0.0722
	WQ16	Surface		7/2/2014	< 0.0001	-	< 0.001	< 0.000015	6.00	< 0.0003	< 0.00002	0.000300	0.0469
	WQ16	Surface		9/24/2014	< 0.0001	-	< 0.001	< 0.000015	5.60	< 0.0003	0.0000500	0.000300	0.224
	WQ16	Surface		12/8/2014	< 0.0001	-	< 0.001	< 0.000015	6.70	< 0.0003	< 0.00002	0.000100	0.0281
	WQ17	Surface		12/12/2011	< 0.0001	-	< 0.001	< 0.000015	8.30	< 0.0003	0.0000400	0.000600	0.0733
	WQ17	Surface		3/12/2012	< 0.0001	-	< 0.001	< 0.000015	10.0	< 0.0003	0.0000300	0.000200	0.0615
	WQ17	Surface	Dup	6/18/2012	< 0.0001	-	< 0.001	< 0.000015	3.70	< 0.0003	0.0000300	0.000700	0.0934
	WQ17	Surface		6/18/2012	< 0.0001	-	< 0.001	< 0.000015	3.20	< 0.0003	< 0.00002	0.000400	0.0930
	WQ17	Surface	Dup	9/17/2012	< 0.0001	-	< 0.001	< 0.000015	8.10	< 0.0003	0.0000600	0.000500	0.0962
	WQ17	Surface		9/17/2012	< 0.0001	-	< 0.001	< 0.000015	8.00	< 0.0003	0.0000600	0.00110	0.0934
	WQ17	Surface		1/13/2013	< 0.0001	-	< 0.001	< 0.000015	10.8	< 0.0003	0.0000500	0.000500	0.0762
	WQ18	Surface		12/12/2011	< 0.0001	-	0.00200	< 0.000015	13.5	< 0.0003	0.0000300	0.000900	0.152
	WQ18	Surface		3/12/2012	< 0.0001	-	0.00200	< 0.000015	15.6	0.000400	0.0000300	< 0.0001	0.187
	WQ18	Surface		6/19/2012	< 0.0001	-	0.00100	< 0.000015	9.40	< 0.0003	0.0000400	0.000100	0.291
	WQ18	Surface		9/18/2012	< 0.0001	-	0.00100	< 0.000015	13.4	< 0.0003	0.0000500	0.000100	0.146
	WQ18	Surface		1/16/2013	< 0.0001	-	< 0.001	0.000655	16.0	0.00680	0.00171	0.00540	3.70
	WQ19	Surface		6/18/2012	< 0.0001	-	0.00100	< 0.000015	28.8	< 0.0003	< 0.00002	< 0.0001	0.0209
	WQ19	Surface		9/17/2012	< 0.0001	-	0.00200	< 0.000015	34.6	< 0.0003	< 0.00002	0.000100	0.0240
	WQ19	Surface		12/10/2012	< 0.0001	-	0.00100	< 0.000015	35.0	< 0.0003	< 0.00002	< 0.0001	0.0189
	WQ26	Surface		1/13/2013	< 0.0001	-	< 0.001	< 0.000015	18.6	< 0.0003	< 0.00002	0.000200	0.0193

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					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ26	Surface		2/12/2013	< 0.0001	-	< 0.001	< 0.000015	17.9	< 0.0003	< 0.00002	< 0.0001	0.0248
	WQ26	Surface		3/11/2013	< 0.0001	-	< 0.001	< 0.000015	19.2	< 0.0003	< 0.00002	0.000300	0.0290
	WQ26	Surface		4/15/2013	< 0.0001	-	0.0240	< 0.000015	14.4	< 0.0003	0.0000200	0.000400	0.0517
	WQ26	Surface		5/13/2013	< 0.0001	-	< 0.001	< 0.000015	4.20	< 0.0003	0.0000800	0.000900	0.257
	WQ26	Surface		5/22/2013	< 0.0001	-	< 0.001	< 0.000015	5.50	< 0.0003	< 0.00002	< 0.0001	0.0755
	WQ26	Surface		5/27/2013	< 0.0001	-	< 0.001	< 0.000015	5.60	0.000300	0.0000500	0.000600	0.201
	WQ26	Surface		6/6/2013	< 0.0001	-	0.00200	< 0.000015	5.30	< 0.0003	0.0000600	0.000700	0.159
	WQ26	Surface		6/10/2013	< 0.0001	-	< 0.001	0.0000160	6.60	< 0.0003	0.0000400	0.000200	0.0925
	WQ26	Surface		6/17/2013	< 0.0001	-	0.00100	< 0.000015	6.40	< 0.0003	0.0000400	< 0.0001	0.0951
L1762266-6	WQ26	Surface	Dup	4/27/2016	<0.00010	<0.000050	<0.010	0.00000800	5.58	0.000550	<0.00010	0.000900	0.253
L1762266-3	WQ26	Surface		4/27/2016	<0.00010	<0.000050	<0.010	0.00000500	5.32	0.000420	<0.00010	0.000840	0.247
L1764648-3	WQ26	Surface	Dup	5/3/2016	<0.00010	<0.000050	<0.010	<0.0000050	4.28	0.000300	<0.00010	0.000740	0.142
L1764648-2	WQ26	Surface		5/3/2016	<0.00010	<0.000050	<0.010	<0.0000050	5.45	0.000370	<0.00010	0.000610	0.168
L1767107-3	WQ26	Surface		5/9/2016	<0.00010	<0.000050	<0.010	<0.0000050	5.67	0.000270	<0.00010	0.000520	0.114
L1770672-3	WQ26	Surface		5/16/2016	<0.00010	<0.000050	<0.010	0.00000500	7.09	0.000280	<0.00010	0.000520	0.0970
L1774541-2	WQ26	Surface		5/25/2016	<0.00010	<0.000050	<0.010	<0.0000050	7.53	0.000250	<0.00010	<0.00050	0.0790
L1788643-2	WQ26	Surface		6/22/2016	<0.00010	<0.000050	<0.010	<0.0000050	6.42	0.000270	<0.00010	0.000560	0.110
L1808945-2	WQ26	Surface	Dup	8/3/2016	<0.00010	<0.000050	<0.010	<0.0000050	9.17	0.000230	<0.00010	0.000510	0.0900
L1808945-6	WQ26	Surface		8/3/2016	<0.00010	<0.000050	<0.010	<0.0000050	9.43	0.000200	<0.00010	<0.00050	0.0940
L1812856-2	WQ26	Surface		8/10/2016	<0.00010	<0.000050	<0.010	<0.0000050	10.4	0.000230	<0.00010	<0.00050	0.0820
L1815654-2	WQ26	Surface		8/16/2016	<0.00010	<0.000050	<0.010	0.00000600	11.8	0.000150	<0.00010	<0.00050	0.0610
L1819041-4	WQ26	Surface	Dup	8/23/2016	<0.00010	<0.000050	<0.010	<0.0000050	11.1	0.000230	<0.00010	<0.00050	0.0940
L1819041-8	WQ26	Surface		8/23/2016	<0.00010	<0.000050	<0.010	<0.0000050	11.2	0.000500	<0.00010	<0.00050	0.0930
L1823224-5	WQ26	Surface		8/31/2016	<0.00010	<0.000050	<0.010	<0.0000050	11.2	0.000220	<0.00010	<0.00050	0.0880
L1826303-5	WQ26	Surface		9/7/2016	<0.00010	<0.000050	<0.010	<0.0000050	11.1	0.000210	<0.00010	<0.00050	0.0960
L1913531-5	WQ26	Surface		4/12/2017	<0.00010	<0.000050	<0.010	<0.0000050	17.1	0.000190	<0.00010	<0.00050	0.0440
L1926080-2	WQ26	Surface		5/11/2017	<0.00010	<0.000050	<0.010	0.0000130	5.97	0.000540	<0.00010	0.000950	0.257
L1928943-5	WQ26	Surface	Dup	5/17/2017	<0.00010	<0.000050	<0.010	<0.0000050	5.26	0.000330	<0.00010	0.000700	0.232
L1928943-1	WQ26	Surface		5/17/2017	<0.00010	<0.000050	<0.010	0.00000800	5.20	0.000340	<0.00010	0.000690	0.229
L1932034-3	WQ26	Surface		5/24/2017	<0.00010	<0.000050	<0.010	0.0000160	4.80	0.000500	0.000120	0.000810	0.331
L1935151-5	WQ26	Surface	Dup	5/30/2017	<0.00010	<0.000050	<0.010	0.0000100	3.80	0.000360	<0.00010	0.000700	0.237
L1935151-1	WQ26	Surface		5/30/2017	<0.00010	<0.000050	<0.010	0.0000100	3.82	0.000370	<0.00010	0.00123	0.230
L1939712-4	WQ26	Surface	Dup	6/7/2017	<0.00010	<0.000050	<0.010	0.00000600	5.23	0.000340	<0.00010	0.000560	0.163
L1939712-3	WQ26	Surface		6/7/2017	<0.00010	<0.000050	<0.010	0.00000500	5.20	0.000320	<0.00010	0.000560	0.156
L1964508-1	WQ26	Surface		7/24/2017	<0.00010	<0.000050	<0.010	<0.0000050	12.0	0.000190	<0.00010	<0.00050	0.0340
L1984944-4	WQ26	Surface		8/30/2017	<0.00010	<0.000050	<0.010	<0.0000050	16.7	0.000140	<0.00010	<0.00050	0.0300
L1988190-3	WQ26	Surface		9/6/2017	<0.00010	<0.000050	<0.010	<0.0000050	16.7	0.000170	<0.00010	<0.00050	0.0360
L1991279-3	WQ26	Surface		9/13/2017	<0.00010	<0.000050	<0.010	<0.0000050	15.5	0.000200	<0.00010	<0.00050	0.0390
L1995655-1	WQ26	Surface		9/21/2017	<0.00010	<0.000050	<0.010	<0.0000050	14.6	0.000190	<0.00010	<0.00050	0.0620
L1999769-1	WQ26	Surface		9/28/2017	<0.00010	<0.000050	<0.010	<0.0000050	14.8	0.000170	<0.00010	<0.00050	0.0450
L2009845-5	WQ26	Surface		10/17/2017	<0.00010	<0.000050	<0.010	0.0000190	9.01	0.000480	0.000130	0.000590	0.396
L2020333-5	WQ26	Surface		11/7/2017	<0.00010	<0.000050	<0.010	<0.0000050	8.83	0.000370	<0.00010	<0.00050	0.0950
L2035356-3	WQ26	Surface		12/12/2017	<0.00010	<0.000050	<0.010	<0.0000050	12.2	0.000230	<0.00010	<0.00050	0.0780
L2049678-3	WQ26	Surface		1/24/2018	<0.00010	<0.000050	<0.010	<0.0000050	13.4	0.000250	<0.00010	<0.00050	0.0510

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Beryllium (Be)-Total	Bismuth (Bi)-Total	Boron (B)-Total	Cadmium (Cd)-Total	Calcium (Ca)-Total	Chromium (Cr)-Total	Cobalt (Co)-Total	Copper (Cu)-Total	Iron (Fe)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2057605-1	WQ26	Surface		2/14/2018	<0.00010	<0.000050	<0.010	<0.0000050	14.3	0.000250	<0.00010	0.0310	0.0490
L2074294-4	WQ26	Surface		3/28/2018	<0.00010	<0.000050	<0.010	<0.0000050	15.5	0.000250	<0.00010	<0.00050	0.0340
L2081503-5	WQ26	Surface		4/17/2018	<0.00010	<0.000050	<0.010	0.00000870	15.1	0.000200	<0.00010	<0.00050	0.0360
L2097084-5	WQ26	Surface		5/16/2018	<0.00010	<0.000050	<0.010	0.0000131	3.46	0.000870	0.000200	0.000950	0.556
L2103632-4	WQ26	Surface		5/29/2018	<0.00010	<0.000050	<0.010	0.00000730	5.69	0.000320	<0.00010	0.000600	0.135
L2132986-5	WQ26	Surface		7/18/2018	<0.00010	<0.000050	<0.010	<0.0000050	12.3	0.000190	<0.00010	<0.00050	0.0390
L2143640-4	WQ26	Surface	Dup	8/7/2018	<0.00010	<0.000050	<0.010	<0.0000050	11.7	0.000200	<0.00010	<0.00050	0.0460
L2143640-3	WQ26	Surface		8/7/2018	<0.00010	<0.000050	<0.010	<0.0000050	11.7	0.000190	<0.00010	<0.00050	0.0450
L2156026-1	WQ26	Surface		8/28/2018	<0.00010	<0.000050	<0.010	<0.0000050	14.8	0.000160	<0.00010	<0.00050	<0.030
L2159605-1	WQ26	Surface		9/4/2018	<0.00010	<0.000050	<0.010	<0.0000050	14.5	0.000180	<0.00010	0.00384	<0.030
L2160840-4	WQ26	Surface	Dup	9/7/2018	<0.00010	<0.000050	<0.010	<0.0000050	14.9	0.000210	<0.00010	<0.00050	0.0380
L2160840-1	WQ26	Surface		9/7/2018	<0.00010	<0.000050	<0.010	<0.0000050	15.2	0.000170	<0.00010	<0.00050	<0.030
L2163669-3	WQ26	Surface		9/11/2018	<0.00010	<0.000050	<0.010	<0.0000050	14.7	0.000250	<0.00010	<0.00050	0.0380
L2188218-4	WQ26	Surface		10/26/2018	<0.00010	<0.000050	<0.010	<0.0000050	12.9	0.000200	<0.00010	<0.00050	0.0500
L2203408-1	WQ26	Surface		11/27/2018	<0.00010	<0.000050	<0.010	<0.0000050	9.59	0.000220	<0.00010	<0.00050	0.0720
L2213246-2	WQ26	Surface		12/18/2018	<0.00010	<0.000050	<0.010	0.00000570	11.0	0.000260	<0.00010	<0.00050	0.0630
L2227701-2	WQ26	Surface		1/30/2019	<0.00010	<0.000050	<0.010	<0.0000050	13.0	0.000230	<0.00010	<0.00050	0.0400
L2232050-1	WQ26	Surface		2/11/2019	<0.00010	<0.000050	<0.010	<0.0000050	14.6	0.000190	<0.00010	<0.00050	0.0340
L2244756-5	WQ26	Surface	Dup	3/13/2019	<0.00010	<0.000050	<0.010	<0.0000050	15.7	0.000360	<0.00010	<0.00050	<0.030
L2244756-2	WQ26	Surface		3/13/2019	<0.00010	<0.000050	<0.010	<0.0000050	15.5	0.000230	<0.00010	<0.00050	<0.030
L2256053-2	WQ26	Surface		4/8/2019	<0.00010	<0.000050	<0.010	<0.0000050	10.4	0.000270	<0.00010	<0.00050	0.140
L2269368-2	WQ26	Surface		5/4/2019	<0.00010	<0.000050	<0.010	0.00000820	6.80	0.000360	<0.00010	0.000650	0.229
L2273497-4	WQ26	Surface		5/13/2019	<0.00010	<0.000050	<0.010	0.00000850	5.44	0.000340	<0.00010	0.000710	0.212
L2277964-7	WQ26	Surface		5/21/2019	<0.00010	<0.000050	<0.010	0.0000191	4.27	0.000650	0.000180	0.00104	0.472
L2282975-2	WQ26	Surface		5/29/2019	<0.00010	<0.000050	<0.010	0.00000880	5.85	0.000380	<0.00010	0.000640	0.167
L2285579-2	WQ26	Surface		6/3/2019	<0.00010	<0.000050	<0.010	<0.0000050	6.61	0.000240	<0.00010	0.000530	0.106
L2312637-3	WQ26	Surface		7/16/2019	<0.00010	<0.000050	<0.010	<0.0000050	7.43	0.000280	<0.00010	0.000530	0.108
L2326388-3	WQ26	Surface		8/8/2019	<0.00010	<0.000050	<0.010	<0.0000050	7.80	0.000250	<0.00010	0.000530	0.109
L2349445-7	WQ26	Surface	Dup	9/16/2019	<0.00010	<0.000050	<0.010	<0.0000050	10.0	0.000210	<0.00010	<0.00050	0.0840
L2349445-5	WQ26	Surface		9/16/2019	<0.00010	<0.000050	<0.010	<0.0000050	10.1	0.000210	<0.00010	<0.00050	0.0840
L2371052-6	WQ26	Surface	Dup	10/22/2019	<0.00010	<0.000050	<0.010	<0.0000050	7.93	0.000260	<0.00010	0.000560	0.129
L2371052-4	WQ26	Surface		10/22/2019	<0.00010	<0.000050	<0.010	0.00000580	8.01	0.000280	<0.00010	0.000590	0.142
L2383392-2	WQ26	Surface		11/14/2019	<0.00010	<0.000050	<0.010	<0.0000050	7.25	0.000260	<0.00010	<0.00050	0.0960
VA19A0726-001	WQ26	Surface		12/16/2019	<0.000020	<0.000050	<0.010	<0.0000050	9.10	0.000230	<0.00010	0.000600	0.111
VA20A0688-002	WQ26	Surface		1/21/2020	<0.000020	<0.000050	<0.010	<0.0000050	12.1	0.000240	<0.00010	<0.00050	0.0570
VA20A1887-002	WQ26	Surface		2/13/2020	<0.000100	<0.000050	<0.010	<0.0000050	12.3	0.000180	<0.00010	<0.00050	0.0470
VA20A3516-002	WQ26	Surface		3/16/2020	<0.000020	<0.000050	<0.010	<0.0000050	14.8	0.000190	<0.00010	<0.00050	0.0370
VA20A4555-001	WQ26	Surface		4/7/2020	<0.000020	<0.000050	<0.010	<0.0000050	15.8	0.000200	<0.00010	<0.00050	0.0290
VA20A6574-003	WQ26	Surface		5/14/2020	0.0000280	<0.000050	<0.010	0.00000560	4.89	0.000330	<0.00010	0.000720	0.166
VA20B2156-002	WQ26	Surface		8/5/2020	<0.000020	<0.000050	<0.010	<0.0000050	10.9	0.000140	<0.00010	<0.00050	0.0720
VA20C1166-003	WQ26	Surface		11/17/2020	<0.000020	<0.000050	<0.010	0.00000770	7.46	0.000320	<0.00010	<0.00050	0.186
	WQ27	Surface		4/13/2014	<0.0001	-	<0.001	<0.000015	14.3	0.000400	<0.00002	0.000200	0.0388
	WQ27	Surface		7/2/2014	<0.0001	-	<0.001	<0.000015	8.00	<0.0003	<0.00002	0.000500	0.0705
	WQ27	Surface		9/24/2014	<0.0001	-	<0.001	<0.000015	18.3	<0.0003	<0.00002	0.000200	0.0311

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					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ27	Surface		12/9/2014	<0.0001	-	<0.001	<0.000015	15.7	0.000400	<0.00002	0.000200	0.0416
L1762266-4	WQ27	Surface		4/27/2016	<0.00010	<0.000050	<0.010	0.00000800	4.02	0.000330	<0.00010	0.000780	0.199
L1764648-6	WQ27	Surface		5/3/2016	<0.00010	<0.000050	<0.010	0.00000600	3.82	0.000310	<0.00010	0.000590	0.141
L1767107-4	WQ27	Surface		5/9/2016	<0.00010	<0.000050	<0.010	<0.0000050	4.48	0.000280	<0.00010	0.000530	0.104
L1770672-4	WQ27	Surface		5/16/2016	<0.00010	<0.000050	<0.010	<0.0000050	5.22	0.000280	<0.00010	0.000640	0.0970
L1774541-3	WQ27	Surface		5/25/2016	<0.00010	<0.000050	<0.010	<0.0000050	5.93	0.000250	<0.00010	0.000830	0.0840
L1788643-6	WQ27	Surface	Dup	6/22/2016	<0.00010	<0.000050	<0.010	<0.0000050	5.37	0.000260	<0.00010	0.000560	0.116
L1788643-3	WQ27	Surface		6/22/2016	<0.00010	<0.000050	<0.010	<0.0000050	5.27	0.000290	<0.00010	0.000520	0.112
L1808945-3	WQ27	Surface		8/3/2016	<0.00010	<0.000050	<0.010	<0.0000050	7.76	0.000250	<0.00010	<0.00050	0.124
L1812856-3	WQ27	Surface		8/10/2016	<0.00010	<0.000050	<0.010	<0.0000050	8.86	0.000260	<0.00010	<0.00050	0.122
L1815654-3	WQ27	Surface		8/16/2016	<0.00010	<0.000050	<0.010	<0.0000050	9.94	0.000160	<0.00010	<0.00050	0.101
L1819041-10	WQ27	Surface		8/23/2016	<0.00010	<0.000050	<0.010	<0.0000050	9.23	0.000250	<0.00010	<0.00050	0.120
L1823224-6	WQ27	Surface		8/31/2016	<0.00010	<0.000050	<0.010	<0.0000050	9.03	0.000240	<0.00010	<0.00050	0.126
L1826303-2	WQ27	Surface		9/7/2016	<0.00010	<0.000050	<0.010	<0.0000050	8.12	0.000220	<0.00010	<0.00050	0.117
L1913006-2	WQ27	Surface		4/11/2017	<0.00010	<0.000050	<0.010	<0.0000050	14.4	0.000230	<0.00010	<0.00050	0.0620
L1925486-3	WQ27	Surface		5/10/2017	<0.00010	<0.000050	<0.010	0.00000800	5.18	0.000340	<0.00010	0.000720	0.247
L1928943-2	WQ27	Surface		5/17/2017	<0.00010	<0.000050	<0.010	<0.0000050	4.60	0.000330	<0.00010	0.000820	0.204
L1932034-2	WQ27	Surface		5/24/2017	<0.00010	<0.000050	<0.010	0.0000150	4.09	0.000350	<0.00010	0.000750	0.255
L1935151-2	WQ27	Surface		5/30/2017	<0.00010	<0.000050	<0.010	0.0000120	3.20	0.000330	<0.00010	0.000690	0.210
L1939712-2	WQ27	Surface		6/7/2017	<0.00010	<0.000050	<0.010	0.00000500	4.12	0.000250	<0.00010	0.000510	0.119
L1961670-3	WQ27	Surface		7/18/2017	<0.00010	<0.000050	<0.010	<0.0000050	9.54	0.000230	<0.00010	<0.00050	0.0630
L1984944-3	WQ27	Surface		8/30/2017	<0.00010	<0.000050	<0.010	<0.0000050	15.9	0.000190	<0.00010	<0.00050	0.0430
L1988832-2	WQ27	Surface		9/8/2017	<0.00010	<0.000050	<0.010	<0.0000050	14.9	0.000110	<0.00010	<0.00050	0.0570
L1991279-2	WQ27	Surface	Dup	9/13/2017	<0.00010	<0.000050	<0.010	<0.0000050	13.6	0.000250	<0.00010	<0.00050	0.0720
L1991279-6	WQ27	Surface		9/13/2017	<0.00010	<0.000050	<0.010	<0.0000050	13.5	0.000250	<0.00010	<0.00050	0.0740
L1995655-2	WQ27	Surface		9/21/2017	<0.00010	<0.000050	<0.010	<0.0000050	11.1	0.000240	<0.00010	<0.00050	0.124
L1999769-2	WQ27	Surface		9/28/2017	<0.00010	<0.000050	<0.010	<0.0000050	12.4	0.000210	<0.00010	<0.00050	0.0740
L2011329-3	WQ27	Surface		10/19/2017	<0.00010	<0.000050	<0.010	0.00000600	7.72	0.000420	<0.00010	0.000570	0.216
L2020946-2	WQ27	Surface		11/8/2017	<0.00010	<0.000050	<0.010	<0.0000050	7.23	0.000240	<0.00010	<0.00050	0.0990
L2035356-2	WQ27	Surface		12/12/2017	<0.00010	<0.000050	<0.010	<0.0000050	9.46	0.000240	<0.00010	<0.00050	0.0870
L2049678-4	WQ27	Surface		1/24/2018	<0.00010	<0.000050	<0.010	<0.0000050	11.8	0.000280	<0.00010	<0.00050	0.0750
L2057605-2	WQ27	Surface		2/14/2018	<0.00010	<0.000050	<0.010	<0.0000050	12.0	0.000230	<0.00010	<0.00050	0.0720
L2074294-5	WQ27	Surface		3/28/2018	<0.00010	<0.000050	<0.010	<0.0000050	13.0	0.000230	<0.00010	<0.00050	0.0500
L2081503-6	WQ27	Surface		4/17/2018	<0.00010	<0.000050	<0.010	<0.0000050	12.7	0.000280	<0.00010	<0.00050	0.0550
L2093061-1	WQ27	Surface		5/9/2018	<0.00010	<0.000050	<0.010	0.0000200	3.22	0.000850	0.000180	0.00100	0.563
L2097084-6	WQ27	Surface		5/16/2018	<0.00010	<0.000050	<0.010	0.0000229	2.81	0.000610	0.000140	0.000730	0.366
L2100419-3	WQ27	Surface	Dup	5/23/2018	<0.00010	<0.000050	<0.010	0.00000730	3.14	0.000430	<0.00010	0.000620	0.158
L2100419-1	WQ27	Surface		5/23/2018	<0.00010	<0.000050	<0.010	0.00000870	3.09	0.000380	<0.00010	0.000590	0.166
L2103632-5	WQ27	Surface		5/29/2018	<0.00010	<0.000050	<0.010	0.00000590	4.15	0.000310	<0.00010	0.000510	0.111
L2106738-3	WQ27	Surface	Dup	6/4/2018	<0.00010	<0.000050	<0.010	0.00000550	4.56	0.000270	<0.00010	<0.00050	0.0900
L2106738-1	WQ27	Surface		6/4/2018	<0.00010	<0.000050	<0.010	0.00000570	4.67	0.000260	<0.00010	<0.00050	0.0930
L2132986-4	WQ27	Surface		7/18/2018	<0.00010	<0.000050	<0.010	0.0000104	10.6	0.000230	<0.00010	0.000660	0.0730
L2143640-8	WQ27	Surface		8/7/2018	<0.00010	<0.000050	<0.010	<0.0000050	9.81	0.000230	<0.00010	<0.00050	0.0800
L2156026-4	WQ27	Surface	Dup	8/28/2018	<0.00010	<0.000050	<0.010	<0.0000050	12.9	0.000190	<0.00010	<0.00050	0.0400

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					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2156026-2	WQ27	Surface		8/28/2018	<0.00010	<0.000050	<0.010	<0.0000050	13.3	0.000190	<0.00010	<0.00050	0.0400
L2159605-2	WQ27	Surface		9/4/2018	<0.00010	<0.000050	<0.010	<0.0000050	12.6	0.000230	<0.00010	<0.00050	0.0470
L2160840-2	WQ27	Surface		9/7/2018	<0.00010	<0.000050	<0.010	<0.0000050	13.6	0.000210	<0.00010	<0.00050	0.0360
L2163669-4	WQ27	Surface		9/11/2018	<0.00010	<0.000050	<0.010	<0.0000050	12.7	0.000270	<0.00010	<0.00050	0.0590
L2188218-3	WQ27	Surface		10/26/2018	<0.00010	<0.000050	<0.010	<0.0000050	10.1	0.000230	<0.00010	<0.00050	0.0670
L2204508-6	WQ27	Surface	Dup	11/29/2018	<0.00010	<0.000050	<0.010	<0.0000050	7.37	0.000150	<0.00010	<0.00050	0.0790
L2204508-4	WQ27	Surface		11/29/2018	<0.00010	<0.000050	<0.010	<0.0000050	7.45	0.000120	<0.00010	<0.00050	0.0790
L2213246-3	WQ27	Surface		12/18/2018	<0.00010	<0.000050	<0.010	<0.0000050	8.93	0.000280	<0.00010	<0.00050	0.0790
L2227701-3	WQ27	Surface		1/30/2019	<0.00010	<0.000050	<0.010	<0.0000050	11.1	0.000230	<0.00010	<0.00050	0.0580
L2232050-2	WQ27	Surface		2/11/2019	<0.00010	<0.000050	<0.010	<0.0000050	12.5	0.000240	<0.00010	<0.00050	0.0520
L2244756-3	WQ27	Surface		3/13/2019	<0.00010	<0.000050	<0.010	<0.0000050	13.7	0.000220	<0.00010	<0.00050	0.0430
L2256053-3	WQ27	Surface		4/8/2019	<0.00010	<0.000050	<0.010	<0.0000050	11.1	0.000240	<0.00010	<0.00050	0.117
L2269368-3	WQ27	Surface		5/4/2019	<0.00010	<0.000050	<0.010	0.00000980	5.64	0.000320	<0.00010	0.000620	0.215
L2274397-1	WQ27	Surface		5/14/2019	<0.00010	<0.000050	<0.010	0.00000870	4.41	0.000310	<0.00010	0.000620	0.154
L2277964-6	WQ27	Surface		5/21/2019	<0.00010	<0.000050	<0.010	0.0000200	3.55	0.000560	0.000130	0.000940	0.384
L2282975-3	WQ27	Surface		5/29/2019	<0.00010	<0.000050	<0.010	0.00000740	4.26	0.000340	<0.00010	0.000540	0.128
L2285579-3	WQ27	Surface		6/3/2019	<0.00010	<0.000050	<0.010	<0.0000050	4.94	0.000250	<0.00010	<0.00050	0.101
L2312637-4	WQ27	Surface		7/16/2019	<0.00010	<0.000050	<0.010	0.00000550	5.69	0.000280	<0.00010	0.000540	0.108
L2326388-2	WQ27	Surface		8/8/2019	<0.00010	<0.000050	<0.010	0.00000680	5.99	0.000230	<0.00010	0.000500	0.127
L2350223-2	WQ27	Surface		9/17/2019	<0.00010	<0.000050	<0.010	<0.0000050	7.78	0.000240	<0.00010	<0.00050	0.129
L2372667-2	WQ27	Surface		10/23/2019	<0.00010	<0.000050	<0.010	0.00000600	6.54	0.000310	<0.00010	0.000620	0.113
L2383392-3	WQ27	Surface		11/14/2019	<0.00010	<0.000050	<0.010	<0.0000050	5.48	0.000280	<0.00010	<0.00050	0.103
VA19A0726-002	WQ27	Surface		12/16/2019	<0.000020	<0.000050	<0.010	0.0000267	7.38	0.000270	<0.00010	<0.00050	0.130
VA20A0812-002	WQ27	Surface		1/23/2020	<0.000020	<0.000050	<0.010	<0.0000050	10.1	0.000240	<0.00010	<0.00050	0.0760
VA20A1887-005	WQ27	Surface		2/13/2020	<0.000100	<0.000050	<0.010	<0.0000050	10.4	0.000220	<0.00010	<0.00050	0.0610
VA20A3516-003	WQ27	Surface		3/16/2020	<0.000020	<0.000050	<0.010	<0.0000050	12.3	0.000230	<0.00010	<0.00050	0.0550
VA20A4369-002	WQ27	Surface		4/1/2020	<0.000020	<0.000050	<0.010	<0.0000050	12.5	0.000230	<0.00010	<0.00050	0.0460
L1913006-4	WQ28	Surface		4/11/2017	<0.00010	<0.000050	<0.010	<0.0000050	14.2	0.000260	<0.00010	<0.00050	0.0790
L1925486-2	WQ28	Surface		5/10/2017	<0.00010	<0.000050	<0.010	0.0000100	4.93	0.000330	<0.00010	0.000750	0.246
L1928943-3	WQ28	Surface		5/17/2017	<0.00010	<0.000050	<0.010	<0.0000050	4.47	0.000310	<0.00010	0.000670	0.207
L1932034-4	WQ28	Surface	Dup	5/24/2017	<0.00010	<0.000050	<0.010	0.0000120	4.05	0.000330	<0.00010	0.000720	0.241
L1932034-1	WQ28	Surface		5/24/2017	<0.00010	<0.000050	<0.010	0.0000150	3.95	0.000360	<0.00010	0.000730	0.246
L1935151-3	WQ28	Surface		5/30/2017	<0.00010	<0.000050	<0.010	0.0000130	3.11	0.000340	<0.00010	0.000680	0.209
L1939712-1	WQ28	Surface		6/7/2017	<0.00010	<0.000050	<0.010	0.00000700	4.07	0.000270	<0.00010	0.000520	0.131
L1961670-5	WQ28	Surface	Dup	7/18/2017	<0.00010	<0.000050	<0.010	<0.0000050	9.17	0.000210	<0.00010	<0.00050	0.0760
L1961670-4	WQ28	Surface		7/18/2017	<0.00010	<0.000050	<0.010	<0.0000050	8.80	0.000230	<0.00010	<0.00050	0.0730
L1984944-2	WQ28	Surface		8/30/2017	<0.00010	<0.000050	<0.010	0.00000600	15.6	0.000280	<0.00010	<0.00050	0.0670
L1988832-3	WQ28	Surface		9/8/2017	<0.00010	<0.000050	<0.010	<0.0000050	14.7	0.000230	<0.00010	<0.00050	0.0830
L1991279-1	WQ28	Surface		9/13/2017	<0.00010	<0.000050	<0.010	<0.0000050	13.5	0.000310	<0.00010	<0.00050	0.104
L1995655-3	WQ28	Surface	Dup	9/21/2017	<0.00010	<0.000050	<0.010	<0.0000050	10.6	0.000230	<0.00010	<0.00050	0.147
L1995655-5	WQ28	Surface		9/21/2017	<0.00010	<0.000050	<0.010	<0.0000050	10.3	0.000250	<0.00010	<0.00050	0.147
L1999769-3	WQ28	Surface	Dup	9/28/2017	<0.00010	<0.000050	<0.010	<0.0000050	12.2	0.000210	<0.00010	<0.00050	0.102
L1999769-4	WQ28	Surface		9/28/2017	<0.00010	<0.000050	<0.010	<0.0000050	12.1	0.000250	<0.00010	<0.00050	0.102
L2011329-4	WQ28	Surface		10/19/2017	<0.00010	<0.000050	<0.010	0.00000500	7.47	0.000310	<0.00010	<0.00050	0.197

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Beryllium (Be)-Total	Bismuth (Bi)-Total	Boron (B)-Total	Cadmium (Cd)-Total	Calcium (Ca)-Total	Chromium (Cr)-Total	Cobalt (Co)-Total	Copper (Cu)-Total	Iron (Fe)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2020946-3	WQ28	Surface		11/8/2017	<0.00010	<0.000050	<0.010	0.00000700	7.02	0.000480	<0.00010	0.000820	0.105
L2035356-1	WQ28	Surface		12/12/2017	<0.00010	<0.000050	<0.010	<0.0000050	9.17	0.000270	<0.00010	<0.00050	0.0970
L2049678-5	WQ28	Surface		1/24/2018	<0.00010	<0.000050	<0.010	<0.0000050	11.5	0.000280	<0.00010	<0.00050	0.0880
L2057605-3	WQ28	Surface		2/14/2018	<0.00010	<0.000050	<0.010	<0.0000050	11.9	0.000280	<0.00010	<0.00050	0.106
L2074294-6	WQ28	Surface		3/28/2018	<0.00010	<0.000050	<0.010	<0.0000050	13.0	0.000300	<0.00010	<0.00050	0.0670
L2081503-7	WQ28	Surface		4/17/2018	<0.00010	<0.000050	<0.010	<0.0000050	12.5	0.000490	<0.00010	<0.00050	0.166
L2093061-3	WQ28	Surface	Dup	5/9/2018	<0.00010	<0.000050	<0.010	0.0000230	3.19	0.000830	0.000220	0.00101	0.619
L2093061-2	WQ28	Surface		5/9/2018	<0.00010	<0.000050	<0.010	0.0000219	3.14	0.000860	0.000200	0.00109	0.640
L2097084-7	WQ28	Surface		5/16/2018	<0.00010	<0.000050	<0.010	0.0000133	2.78	0.000540	0.000110	0.000700	0.295
L2100419-2	WQ28	Surface		5/23/2018	<0.00010	<0.000050	<0.010	0.0000100	2.89	0.000330	<0.00010	0.000580	0.153
L2103632-6	WQ28	Surface		5/29/2018	<0.00010	<0.000050	<0.010	0.00000740	3.94	0.000370	<0.00010	0.000520	0.122
L2106738-2	WQ28	Surface		6/4/2018	<0.00010	<0.000050	<0.010	0.00000830	4.28	0.000250	<0.00010	0.000540	0.0920
L2132986-3	WQ28	Surface		7/18/2018	<0.00010	<0.000050	<0.010	0.0000103	9.50	0.000260	<0.00010	0.000590	0.0910
L2143640-7	WQ28	Surface		8/7/2018	<0.00010	<0.000050	<0.010	<0.0000050	9.72	0.000240	<0.00010	<0.00050	0.105
L2156026-3	WQ28	Surface		8/28/2018	<0.00010	<0.000050	<0.010	<0.0000050	13.3	0.000250	<0.00010	<0.00050	0.0800
L2159605-4	WQ28	Surface	Dup	9/4/2018	<0.00010	<0.000050	<0.010	<0.0000050	13.5	0.000230	<0.00010	<0.00050	0.0700
L2159605-3	WQ28	Surface		9/4/2018	<0.00010	<0.000050	<0.010	<0.0000050	13.4	0.000230	<0.00010	<0.00050	0.0700
L2160840-3	WQ28	Surface		9/7/2018	<0.00010	<0.000050	<0.010	<0.0000050	13.5	0.000290	<0.00010	<0.00050	0.0560
L2163669-5	WQ28	Surface		9/11/2018	<0.00010	<0.000050	<0.010	<0.0000050	12.7	0.000320	<0.00010	<0.00050	0.0810
L2188218-2	WQ28	Surface		10/26/2018	<0.00010	<0.000050	<0.010	<0.0000050	9.93	0.000240	<0.00010	<0.00050	0.0810
L2204508-5	WQ28	Surface		11/29/2018	<0.00010	<0.000050	<0.010	<0.0000050	7.35	0.000230	<0.00010	<0.00050	0.0880
L2213246-4	WQ28	Surface		12/18/2018	<0.00010	<0.000050	<0.010	<0.0000050	8.67	0.000260	<0.00010	<0.00050	0.0940
L2227701-4	WQ28	Surface		1/30/2019	<0.00010	<0.000050	<0.010	<0.0000050	10.6	0.000240	<0.00010	<0.00050	0.0720
L2232050-3	WQ28	Surface		2/11/2019	<0.00010	<0.000050	<0.010	<0.0000050	12.4	0.000270	<0.00010	<0.00050	0.0700
L2244756-4	WQ28	Surface		3/13/2019	<0.00010	<0.000050	<0.010	<0.0000050	13.9	0.000250	<0.00010	<0.00050	0.0560
L2256053-4	WQ28	Surface		4/8/2019	<0.00010	<0.000050	<0.010	<0.0000050	14.0	0.000200	<0.00010	<0.00050	0.0730
L2269368-4	WQ28	Surface		5/4/2019	<0.00010	<0.000050	<0.010	0.00000740	5.41	0.000300	<0.00010	0.000610	0.210
L2274397-2	WQ28	Surface		5/14/2019	<0.00010	<0.000050	<0.010	0.00000580	4.31	0.000250	<0.00010	0.000620	0.153
L2277964-8	WQ28	Surface	Dup	5/21/2019	<0.00010	<0.000050	<0.010	0.0000151	3.30	0.000410	<0.00010	0.000800	0.286
L2277964-5	WQ28	Surface		5/21/2019	<0.00010	<0.000050	<0.010	0.0000138	3.42	0.000450	<0.00010	0.000810	0.304
L2282975-6	WQ28	Surface	Dup	5/29/2019	<0.00010	<0.000050	<0.010	<0.0000050	4.17	0.000320	<0.00010	0.000550	0.125
L2282975-4	WQ28	Surface		5/29/2019	<0.00010	<0.000050	<0.010	0.00000560	4.04	0.000340	<0.00010	0.000540	0.130
L2285579-4	WQ28	Surface		6/3/2019	<0.00010	<0.000050	<0.010	0.00000610	4.83	0.000260	<0.00010	<0.00050	0.107
L2312637-5	WQ28	Surface		7/16/2019	<0.00010	<0.000050	<0.010	<0.0000050	5.60	0.000250	<0.00010	<0.00050	0.114
L2326388-4	WQ28	Surface		8/8/2019	<0.00010	<0.000050	<0.010	0.00000640	5.86	0.000340	<0.00010	0.000540	0.145
L2350223-3	WQ28	Surface		9/17/2019	<0.00010	<0.000050	<0.010	<0.0000050	8.11	0.000230	<0.00010	<0.00050	0.123
L2372667-3	WQ28	Surface		10/23/2019	<0.00010	<0.000050	<0.010	0.00000640	6.37	0.000270	<0.00010	0.000500	0.117
L2383392-4	WQ28	Surface		11/14/2019	<0.00010	<0.000050	<0.010	<0.0000050	5.41	0.000280	<0.00010	<0.00050	0.110
VA19A0726-003	WQ28	Surface		12/16/2019	<0.000020	<0.000050	<0.010	0.00000540	7.11	0.000240	<0.00010	0.000550	0.117
VA20A0812-003	WQ28	Surface		1/23/2020	<0.000020	<0.000050	<0.010	<0.0000050	10.4	0.000300	<0.00010	<0.00050	0.0900
VA20A1887-004	WQ28	Surface		2/13/2020	<0.000100	<0.000050	<0.010	<0.0000050	10.1	0.000240	<0.00010	<0.00050	0.0770
VA20A3516-004	WQ28	Surface		3/16/2020	<0.000020	<0.000050	<0.010	<0.0000050	12.2	0.000330	<0.00010	<0.00050	0.0740
VA20A4369-003	WQ28	Surface		4/1/2020	<0.000020	<0.000050	<0.010	<0.0000050	12.3	0.000230	<0.00010	<0.00050	0.0670
VA20A6356-004	WQ28	Surface		5/11/2020	0.0000370	<0.000050	<0.010	0.0000133	3.82	0.000380	<0.00010	0.000640	0.200

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					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
VA20B2426-005	WQ28	Surface		8/10/2020	<0.000020	<0.000050	<0.010	<0.0000050	8.22	0.000240	<0.00010	<0.00050	0.129
VA20C0197-004	WQ28	Surface		11/4/2020	0.0000330	<0.000050	<0.010	0.00000940	4.36	0.000340	<0.00010	0.000590	0.239
L2238112-1	WQ29	Surface		2/26/2019	<0.00010	<0.000050	<0.010	<0.0000050	22.2	<0.00010	<0.00010	<0.00050	0.219
L2278768-1	WQ29	Surface		5/22/2019	<0.00010	<0.000050	<0.010	0.00000510	12.5	0.000390	0.000130	0.000980	0.413
L2325935-4	WQ29	Surface	Dup	8/7/2019	<0.00010	<0.000050	<0.010	<0.0000050	17.1	0.000160	<0.00010	0.000520	0.277
L2325935-2	WQ29	Surface		8/7/2019	<0.00010	<0.000050	<0.010	<0.0000050	17.3	0.000160	<0.00010	0.000530	0.316
L2388381-6	WQ29	Surface	Dup	11/25/2019	<0.00010	<0.000050	<0.010	<0.0000050	16.2	0.000190	<0.00010	0.000590	0.273
L2388381-5	WQ29	Surface		11/25/2019	<0.00010	<0.000050	<0.010	<0.0000050	15.9	0.000210	<0.00010	0.000510	0.279
VA20A1056-001	WQ29	Surface		1/28/2020	<0.000020	<0.000050	<0.010	<0.0000050	21.2	0.000120	<0.00010	0.000520	0.286
VA20A1776-001	WQ29	Surface		2/2/2020	<0.000020	<0.000050	<0.010	<0.0000050	20.7	0.000140	<0.00010	<0.00050	0.323
VA20A3580-003	WQ29	Surface	Dup	3/17/2020	<0.000020	<0.000050	<0.010	<0.0000050	21.3	0.000120	<0.00010	<0.00050	0.342
VA20A3580-001	WQ29	Surface		3/17/2020	<0.000020	<0.000050	<0.010	<0.0000050	21.5	0.000100	<0.00010	<0.00050	0.338
VA20A4424-003	WQ29	Surface	Dup	4/2/2020	<0.000020	<0.000050	<0.010	<0.0000050	23.8	0.000140	<0.00010	<0.00050	0.399
VA20A4424-001	WQ29	Surface		4/2/2020	<0.000020	<0.000050	<0.010	<0.0000050	23.4	0.000140	<0.00010	<0.00050	0.388
VA20A6114-001	WQ29	Surface		5/6/2020	<0.000020	<0.000050	<0.010	<0.0000050	14.6	0.000200	<0.00010	0.000650	0.181
VA20A6503-001	WQ29	Surface		5/13/2020	<0.000020	<0.000050	<0.010	0.00000590	15.1	0.000230	<0.00010	0.000580	0.173
VA20A6869-004	WQ29	Surface		5/20/2020	<0.000020	<0.000050	<0.010	<0.0000050	13.4	0.000210	<0.00010	0.000580	0.192
VA20A7367-004	WQ29	Surface		5/28/2020	<0.000020	<0.000050	<0.010	<0.0000050	16.1	0.000180	<0.00010	0.000760	0.225
VA20A7797-001	WQ29	Surface		6/3/2020	<0.000020	<0.000050	<0.010	<0.0000050	15.8	0.000210	<0.00010	0.000550	0.257
VA20B0021-001	WQ29	Surface		7/7/2020	<0.000020	<0.000050	<0.010	<0.0000050	16.3	0.000170	<0.00010	0.000630	0.243
VA20B2012-001	WQ29	Surface		8/4/2020	<0.000020	<0.000050	<0.010	<0.0000050	18.8	0.000170	<0.00010	<0.00050	0.233
VA20B2542-001	WQ29	Surface		8/11/2020	<0.000020	<0.000050	<0.010	<0.0000050	19.9	0.000150	<0.00010	<0.00050	0.270
VA20B3033-001	WQ29	Surface		8/17/2020	<0.000020	<0.000050	<0.010	<0.0000050	20.4	0.000160	<0.00010	0.000530	0.313
VA20B3860-001	WQ29	Surface		8/26/2020	<0.000020	<0.000050	<0.010	<0.0000050	20.8	0.000120	<0.00010	<0.00050	0.293
VA20B4443-001	WQ29	Surface		9/2/2020	<0.000020	<0.000050	<0.010	<0.0000050	18.6	0.000120	<0.00010	<0.00050	0.297
VA20B7828-004	WQ29	Surface	Dup	10/8/2020	<0.000020	<0.000050	<0.010	<0.0000050	19.4	0.000150	<0.00010	<0.00050	0.364
VA20B7828-001	WQ29	Surface		10/8/2020	<0.000020	<0.000050	<0.010	<0.0000050	20.0	0.000130	<0.00010	<0.00050	0.367
VA20B9945-001	WQ29	Surface		11/2/2020	<0.000020	<0.000050	<0.010	<0.0000050	15.2	0.000350	<0.00010	0.000580	0.319
	WQ3	Surface		5/17/2011	< 0.0001	-	0.00100	0.0000260	6.70	0.00150	0.000180	0.00100	0.642
	WQ3	Surface		5/25/2011	< 0.0001	-	0.00200	0.0000270	4.80	0.000800	0.0000900	0.000800	0.270
	WQ3	Surface		5/31/2011	< 0.0001	-	0.00100	< 0.000015	4.20	0.000600	0.0000600	0.000700	0.170
	WQ3	Surface		6/7/2011	< 0.0001	-	0.00100	< 0.000015	4.90	0.000600	0.0000500	0.000600	0.135
	WQ3	Surface		6/14/2011	< 0.0001	-	0.00100	< 0.000015	6.10	0.000600	0.0000600	0.000600	0.123
	WQ3	Surface		7/19/2011	< 0.0001	-	< 0.001	< 0.000015	7.80	0.000700	0.0000300	0.000400	0.147
	WQ3	Surface		8/16/2011	< 0.0001	-	0.00300	< 0.000015	10.4	0.000400	0.0000700	0.000200	0.235
	WQ3	Surface		9/20/2011	< 0.0001	-	< 0.001	0.0000170	11.7	0.00190	0.0000500	0.000200	0.167
	WQ3	Surface		10/18/2011	< 0.0001	-	0.00800	< 0.000015	11.9	0.000600	0.0000200	< 0.0001	0.0898
	WQ3	Surface		11/15/2011	< 0.0001	-	0.00300	< 0.000015	12.4	0.000800	0.0000200	0.000200	0.0852
	WQ3	Surface		12/12/2011	< 0.0001	-	0.00300	< 0.000015	12.7	0.000900	< 0.00002	0.000200	0.0817
	WQ3	Surface		1/12/2012	< 0.0001	-	0.00300	0.0000320	12.7	0.000900	<0.00002	0.00730	0.0944
	WQ3	Surface		2/13/2012	< 0.0001	-	< 0.001	< 0.000015	13.0	0.00120	0.0000600	0.000100	0.283
	WQ3	Surface		3/12/2012	< 0.0001	-	0.00300	< 0.000015	13.3	0.000900	< 0.00002	< 0.0001	0.0615
	WQ3	Surface		4/16/2012	< 0.0001	-	< 0.001	< 0.000015	13.6	0.000800	< 0.00002	< 0.0001	0.0788
	WQ3	Surface		5/14/2012	< 0.0001	-	< 0.001	< 0.000015	7.10	0.000700	0.0000900	0.000500	0.321

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Beryllium (Be)-Total	Bismuth (Bi)-Total	Boron (B)-Total	Cadmium (Cd)-Total	Calcium (Ca)-Total	Chromium (Cr)-Total	Cobalt (Co)-Total	Copper (Cu)-Total	Iron (Fe)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ3	Surface		5/22/2012	< 0.0001	-	0.00100	< 0.000015	6.10	0.000600	0.0000600	0.000500	0.320
	WQ3	Surface		5/29/2012	< 0.0001	-	< 0.001	< 0.000015	5.60	0.000300	0.000450	0.000300	0.153
	WQ3	Surface		6/5/2012	< 0.0001	-	< 0.001	< 0.000015	6.30	0.000400	0.0000400	0.000400	0.140
	WQ3	Surface		6/12/2012	< 0.0001	-	< 0.001	< 0.000015	6.90	0.000600	0.0000300	0.000400	0.127
	WQ3	Surface		6/19/2012	< 0.0001	-	< 0.001	< 0.000015	7.70	0.000900	< 0.00002	< 0.0001	0.129
	WQ3	Surface		7/17/2012	< 0.0001	-	< 0.001	< 0.000015	10.3	0.000600	< 0.00002	0.000300	0.114
	WQ3	Surface		8/14/2012	< 0.0001	-	0.00300	< 0.000015	11.8	0.000600	0.0000200	< 0.0001	0.109
	WQ3	Surface		9/18/2012	< 0.0001	-	< 0.001	< 0.000015	13.0	0.000900	0.0000300	< 0.0001	0.116
	WQ3	Surface		10/15/2012	< 0.0001	-	< 0.001	< 0.000015	12.8	0.000900	0.0000200	< 0.0001	0.0889
	WQ3	Surface		11/13/2012	< 0.0001	-	< 0.001	< 0.000015	12.2	0.00100	0.0000200	< 0.0001	0.0854
	WQ3	Surface		12/10/2012	< 0.0001	-	< 0.001	< 0.000015	22.4	< 0.0003	0.0000400	< 0.0001	0.191
	WQ3	Surface		1/13/2013	< 0.0001	-	< 0.001	< 0.000015	13.5	0.000800	< 0.00002	< 0.0001	0.0684
	WQ3	Surface		2/12/2013	< 0.0001	-	< 0.001	< 0.000015	13.1	0.000900	0.0000200	< 0.0001	0.0758
	WQ3	Surface		3/11/2013	< 0.0001	-	< 0.001	< 0.000015	14.6	0.00100	0.0000200	< 0.0001	0.0844
	WQ3	Surface		4/15/2013	< 0.0001	-	0.00600	< 0.000015	11.9	0.00120	0.0000900	0.000400	0.317
	WQ3	Surface		5/13/2013	< 0.0001	-	< 0.001	0.0000450	5.70	0.000500	0.0000600	0.00110	0.207
	WQ3	Surface		5/22/2013	< 0.0001	-	< 0.001	< 0.000015	6.30	< 0.0003	0.0000600	0.000200	0.213
	WQ3	Surface		5/27/2013	< 0.0001	-	< 0.001	< 0.000015	7.40	0.000600	0.0000500	0.000600	0.178
	WQ3	Surface		6/6/2013	< 0.0001	-	0.00200	< 0.000015	6.60	0.000500	0.0000600	0.000700	0.167
	WQ3	Surface		6/10/2013	< 0.0001	-	< 0.001	< 0.000015	7.80	0.000500	0.0000500	0.000200	0.131
	WQ3	Surface		6/17/2013	< 0.0001	-	0.00100	< 0.000015	7.40	0.000400	0.0000700	< 0.0001	0.147
	WQ3	Surface	Dup	4/13/2014	<0.0001	-	<0.001	<0.000015	13.3	0.000900	<0.00002	<0.0001	0.0671
	WQ3	Surface		4/13/2014	< 0.0001	-	< 0.001	< 0.000015	13.3	0.000800	< 0.00002	< 0.0001	0.0653
	WQ3	Surface		7/2/2014	<0.0001	-	<0.001	<0.000015	11.3	0.000400	0.0000300	0.000300	0.114
	WQ3	Surface		9/24/2014	<0.0001	-	<0.001	<0.000015	14.7	0.00100	0.0000300	0.000100	0.127
	WQ3	Surface		12/9/2014	<0.0001	-	<0.001	<0.000015	14.2	0.00100	<0.00002	0.000100	0.0719
L1926080-7	WQ3	Surface		5/11/2017	<0.00010	<0.000050	<0.010	0.0000140	7.95	0.00128	0.000150	0.000930	0.434
L1962414-1	WQ3	Surface		7/19/2017	<0.00010	<0.000050	<0.010	0.00000900	7.35	0.00117	<0.00010	0.000640	0.193
L1988190-1	WQ3	Surface		9/6/2017	<0.00010	<0.000050	<0.010	0.00000900	12.2	0.00143	<0.00010	0.000760	0.280
L2010514-1	WQ3	Surface		10/18/2017	<0.00010	<0.000050	<0.010	0.0000180	10.2	0.00209	0.000290	0.000990	0.737
L2060442-1	WQ3	Surface		2/23/2018	<0.00010	<0.000050	<0.010	<0.0000050	12.4	0.000650	<0.00010	<0.00050	0.123
L2103632-1	WQ3	Surface		5/29/2018	<0.00010	<0.000050	<0.010	0.00000620	6.60	0.000700	<0.00010	0.000580	0.189
L2143640-2	WQ3	Surface		8/7/2018	<0.00010	<0.000050	<0.010	0.0000101	11.8	0.000910	<0.00010	<0.00050	0.454
L2204508-2	WQ3	Surface		11/29/2018	<0.00010	<0.000050	<0.010	<0.0000050	9.77	0.000600	<0.00010	<0.00050	0.224
L2232772-1	WQ3	Surface		2/12/2019	<0.00010	<0.000050	<0.010	<0.0000050	12.0	<0.00080	<0.00010	<0.00050	0.172
L2273497-2	WQ3	Surface		5/13/2019	<0.00010	<0.000050	<0.010	0.00000690	6.91	0.000560	<0.00010	0.000510	0.221
L2328474-1	WQ3	Surface		8/12/2019	<0.00010	<0.000050	<0.010	<0.0000050	7.88	0.000600	<0.00010	<0.00050	0.267
L2385426-1	WQ3	Surface		11/18/2019	<0.00010	0.0000870	<0.010	0.00000710	6.65	0.000640	<0.00010	<0.00050	0.246
VA20A1830-002	WQ3	Surface		2/12/2020	<0.000020	<0.000050	<0.010	<0.0000050	10.7	0.000750	<0.00010	<0.00050	0.166
VA20A6574-001	WQ3	Surface		5/14/2020	<0.000020	<0.000050	<0.010	0.00000700	5.76	0.000660	<0.00010	0.000640	0.193
VA20B2692-002	WQ3	Surface		8/12/2020	<0.000020	<0.000050	<0.010	<0.0000050	11.2	0.000710	<0.00010	<0.00050	0.189
VA20C1166-001	WQ3	Surface		11/17/2020	<0.000020	<0.000050	<0.010	0.00000980	8.20	0.000680	<0.00010	<0.00050	0.258
L2239149-1	WQ30	Surface		2/28/2019	<0.00010	<0.000050	<0.010	<0.0000050	22.4	0.000100	<0.00010	<0.00050	0.256
L2278768-2	WQ30	Surface		5/22/2019	<0.00010	<0.000050	<0.010	0.00000760	12.5	0.000450	0.000150	0.00110	0.479

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

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					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2325935-1	WQ30	Surface		8/7/2019	<0.00010	<0.000050	<0.010	<0.0000050	17.7	0.000140	<0.00010	0.000540	0.269
L2385426-3	WQ30	Surface		11/18/2019	<0.00010	<0.000050	<0.010	0.00000830	13.7	0.000240	<0.00010	0.000680	0.282
VA20A1056-002	WQ30	Surface		1/28/2020	<0.000020	<0.000050	<0.010	<0.0000050	22.1	0.000150	<0.00010	<0.00050	0.301
VA20A1776-002	WQ30	Surface		2/2/2020	<0.000020	<0.000050	<0.010	<0.0000050	20.7	0.000190	<0.00010	<0.00050	0.325
VA20A3580-002	WQ30	Surface		3/17/2020	<0.000020	<0.000050	<0.010	<0.0000050	22.6	0.000140	<0.00010	<0.00050	0.304
VA20A4424-002	WQ30	Surface		4/2/2020	<0.000020	<0.000050	<0.010	<0.0000050	24.7	0.000260	<0.00010	<0.00050	0.447
VA20A6114-002	WQ30	Surface		5/6/2020	<0.000020	<0.000050	<0.010	<0.0000050	14.8	0.000200	<0.00010	0.000680	0.181
VA20A6503-005	WQ30	Surface	Dup	5/13/2020	<0.000020	<0.000050	<0.010	<0.0000050	15.0	0.000190	<0.00010	0.000600	0.167
VA20A6503-002	WQ30	Surface		5/13/2020	<0.000020	<0.000050	<0.010	<0.0000050	15.1	0.000210	<0.00010	0.000660	0.179
VA20A6869-005	WQ30	Surface		5/20/2020	<0.000020	<0.000050	<0.010	<0.0000050	13.2	0.000220	<0.00010	0.000630	0.218
VA20A7367-005	WQ30	Surface		5/28/2020	<0.000020	<0.000050	<0.010	<0.0000050	15.7	0.000200	<0.00010	0.000800	0.246
VA20A7797-002	WQ30	Surface		6/3/2020	<0.000020	<0.000050	<0.010	<0.0000050	17.1	0.000310	<0.00010	0.000680	0.308
VA20B0021-002	WQ30	Surface		7/7/2020	<0.000020	<0.000050	<0.010	<0.0000050	16.2	0.000210	<0.00010	0.000620	0.298
VA20B2012-002	WQ30	Surface		8/4/2020	<0.000020	<0.000050	<0.010	<0.0000050	18.7	0.000140	<0.00010	<0.00050	0.258
VA20B2542-002	WQ30	Surface		8/11/2020	<0.000020	<0.000050	<0.010	<0.0000050	20.6	0.000110	<0.00010	<0.00050	0.274
VA20B3033-002	WQ30	Surface		8/17/2020	<0.000020	<0.000050	<0.010	<0.0000050	20.4	0.000130	<0.00010	<0.00050	0.316
VA20B3860-006	WQ30	Surface	Dup	8/26/2020	<0.000020	<0.000050	<0.010	<0.0000050	20.8	0.000110	<0.00010	<0.00050	0.298
VA20B3860-002	WQ30	Surface		8/26/2020	<0.000020	<0.000050	<0.010	<0.0000050	21.0	0.000130	<0.00010	<0.00050	0.300
VA20B4443-002	WQ30	Surface		9/2/2020	<0.000020	<0.000050	<0.010	<0.0000050	19.6	0.000110	<0.00010	<0.00050	0.302
VA20B7828-002	WQ30	Surface		10/8/2020	<0.000020	<0.000050	<0.010	<0.0000050	20.4	0.000170	<0.00010	<0.00050	0.360
VA20B9945-002	WQ30	Surface		11/2/2020	<0.000020	<0.000050	<0.010	<0.0000050	15.2	0.000350	0.000110	0.000660	0.371
VA20A0688-001	WQ31	Surface		1/21/2020	<0.000020	<0.000050	<0.010	<0.0000050	6.42	0.000250	<0.00010	<0.00050	0.0760
VA20A1887-003	WQ31	Surface		2/13/2020	<0.000100	<0.000050	<0.010	<0.0000050	6.54	0.000250	<0.00010	<0.00050	0.0640
VA20A3516-005	WQ31	Surface		3/16/2020	<0.000020	<0.000050	<0.010	<0.0000050	7.63	0.000250	<0.00010	<0.00050	0.0490
VA20A4369-004	WQ31	Surface		4/1/2020	<0.000020	<0.000050	<0.010	<0.0000050	7.83	0.000200	<0.00010	<0.00050	0.0340
VA20A6356-005	WQ31	Surface		5/11/2020	0.0000370	<0.000050	<0.010	0.00000730	3.67	0.000310	<0.00010	0.000630	0.156
VA20A7672-005	WQ31	Surface	Dup	6/2/2020	0.0000360	<0.000050	<0.010	<0.0000050	4.09	0.000250	<0.00010	<0.00050	0.0840
VA20A7672-001	WQ31	Surface		6/2/2020	0.0000330	<0.000050	<0.010	<0.0000050	4.18	0.000200	<0.00010	<0.00050	0.0820
VA20A9918-004	WQ31	Surface		7/6/2020	0.0000320	<0.000050	<0.010	<0.0000050	4.80	0.000230	<0.00010	0.000530	0.106
VA20B2426-002	WQ31	Surface		8/10/2020	0.0000260	<0.000050	<0.010	<0.0000050	5.72	0.000240	<0.00010	<0.00050	0.0880
VA20B4313-004	WQ31	Surface	Dup	9/1/2020	<0.000020	<0.000050	<0.010	<0.0000050	6.42	0.000220	<0.00010	<0.00050	0.0800
VA20B4313-002	WQ31	Surface		9/1/2020	<0.000020	<0.000050	<0.010	<0.0000050	6.43	0.000200	<0.00010	<0.00050	0.0770
VA20B7624-005	WQ31	Surface		10/6/2020	<0.000020	<0.000050	<0.010	<0.0000050	6.55	0.000290	<0.00010	<0.00050	0.0730
VA20C0197-001	WQ31	Surface		11/4/2020	0.0000270	<0.000050	<0.010	0.00000640	4.16	0.000320	<0.00010	0.000610	0.175
	WQ4	Surface		5/17/2011	< 0.0001	-	< 0.001	0.0000760	5.90	< 0.0003	0.0000300	0.000600	0.185
	WQ4	Surface		5/24/2011	< 0.0001	-	0.00100	0.0000640	5.70	< 0.0003	0.0000300	0.000700	0.153
	WQ4	Surface		5/30/2011	< 0.0001	-	0.00100	0.0000450	4.50	< 0.0003	0.0000300	0.000600	0.108
	WQ4	Surface		6/6/2011	< 0.0001	-	0.00100	0.0000480	4.00	< 0.0003	< 0.00002	0.000800	0.0765
	WQ4	Surface		6/13/2011	< 0.0001	-	< 0.001	< 0.000015	4.30	< 0.0003	< 0.00002	0.000600	0.0558
	WQ4	Surface		7/18/2011	< 0.0001	-	< 0.001	0.0000400	5.40	< 0.0003	< 0.00002	0.000600	0.0811
	WQ4	Surface		8/15/2011	< 0.0001	-	< 0.001	< 0.000015	6.50	< 0.0003	0.0000800	0.000400	0.205
	WQ4	Surface		9/19/2011	< 0.0001	-	< 0.001	0.0000420	7.20	< 0.0003	0.0000200	0.000300	0.0471
	WQ4	Surface		10/17/2011	< 0.0001	-	0.00700	0.0000220	6.70	< 0.0003	< 0.00002	0.000100	0.0451
	WQ4	Surface		11/14/2011	< 0.0001	-	0.00100	0.0000980	5.90	< 0.0003	0.000100	0.000300	0.184

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					Beryllium (Be)-Total	Bismuth (Bi)-Total	Boron (B)-Total	Cadmium (Cd)-Total	Calcium (Ca)-Total	Chromium (Cr)-Total	Cobalt (Co)-Total	Copper (Cu)-Total	Iron (Fe)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ4	Surface	Dup	5/15/2012	< 0.0001	-	< 0.001	0.0000730	5.90	0.000800	0.0000600	0.000600	0.736
	WQ4	Surface		5/15/2012	< 0.0001	-	< 0.001	0.0000800	6.00	0.000700	0.0000500	0.00310	0.721
	WQ4	Surface		5/23/2012	< 0.0001	-	< 0.001	0.0000870	5.50	< 0.0003	0.0000800	0.000600	0.465
	WQ4	Surface		5/28/2012	< 0.0001	-	< 0.001	0.0000490	4.60	< 0.0003	0.000390	0.000200	0.186
	WQ4	Surface		6/4/2012	< 0.0001	-	< 0.001	0.0000440	4.90	< 0.0003	0.0000400	0.000400	0.134
	WQ4	Surface		6/11/2012	< 0.0001	-	< 0.001	0.0000220	5.20	< 0.0003	< 0.00002	0.00110	0.0787
	WQ4	Surface		6/18/2012	< 0.0001	-	< 0.001	0.0000340	5.10	< 0.0003	< 0.00002	< 0.0001	0.0538
	WQ4	Surface		7/16/2012	< 0.0001	-	< 0.001	0.0000480	6.70	< 0.0003	< 0.00002	0.000500	0.0956
	WQ4	Surface		8/13/2012	< 0.0001	-	0.00200	0.0000450	7.90	< 0.0003	0.0000400	< 0.0001	0.0823
	WQ4	Surface		9/17/2012	< 0.0001	-	< 0.001	0.0000190	8.00	< 0.0003	0.0000300	0.000200	0.0469
	WQ4	Surface		10/16/2012	< 0.0001	-	< 0.001	0.000247	11.1	0.000800	0.000190	0.00150	0.899
	WQ4	Surface		11/12/2012	< 0.0001	-	< 0.001	0.000106	11.4	0.000300	0.0000300	< 0.0001	0.128
	WQ4	Surface		12/10/2012	< 0.0001	-	< 0.001	0.00128	17.0	< 0.0003	0.000250	0.000300	0.560
	WQ4	Surface		5/14/2013	< 0.0001	-	< 0.001	0.000124	5.00	< 0.0003	0.0000500	0.00140	0.218
	WQ4	Surface		5/21/2013	< 0.0001	-	< 0.001	0.000153	5.60	< 0.0003	0.0000300	0.000500	0.130
	WQ4	Surface		5/28/2013	< 0.0001	-	0.00100	0.000169	7.10	< 0.0003	< 0.00002	0.00100	0.114
	WQ4	Surface		6/4/2013	< 0.0001	-	0.00200	0.0000780	6.40	< 0.0003	0.0000300	0.000900	0.0777
	WQ4	Surface		6/11/2013	< 0.0001	-	< 0.001	0.000113	7.50	< 0.0003	< 0.00002	0.000300	0.0564
	WQ4	Surface		6/18/2013	< 0.0001	-	0.00100	0.0000900	7.30	< 0.0003	0.0000400	< 0.0001	0.0747
L1925102-1	WQ4	Surface		5/9/2017	<0.00010	<0.000050	<0.010	0.0000960	5.88	0.000480	0.000250	0.000750	0.709
L1961670-1	WQ4	Surface		7/18/2017	<0.00010	<0.000050	<0.010	0.0000370	9.41	0.000300	<0.00010	<0.00050	0.0540
L2011329-1	WQ4	Surface		10/19/2017	<0.00010	<0.000050	<0.010	0.0000500	12.2	<0.00010	<0.00010	0.000500	0.0460
L2060101-1	WQ4	Surface		2/22/2018	<0.00010	<0.000050	<0.010	0.0000880	14.7	0.000150	<0.00010	<0.00050	0.126
L2102737-1	WQ4	Surface		5/28/2018	<0.00010	<0.000050	<0.010	0.0000326	5.25	0.000210	<0.00010	<0.00050	0.0970
L2144658-3	WQ4	Surface		8/8/2018	<0.00010	<0.000050	<0.010	0.0000280	8.11	0.000140	<0.00010	<0.00050	0.0790
L2204086-2	WQ4	Surface		11/28/2018	<0.00010	<0.000050	<0.010	0.0000203	5.63	<0.00020	<0.00010	<0.00050	0.0840
L2233329-1	WQ4	Surface		2/13/2019	<0.00010	<0.000050	<0.010	0.0000445	7.80	0.000210	<0.00010	<0.00050	0.191
L2275791-2	WQ4	Surface	Dup	5/16/2019	<0.00010	<0.000050	<0.010	0.0000333	6.89	0.000160	<0.00010	<0.00050	0.0760
L2275791-1	WQ4	Surface		5/16/2019	<0.00010	<0.000050	<0.010	0.0000326	6.53	0.000190	<0.00010	<0.00050	0.0860
L2329543-1	WQ4	Surface		8/13/2019	<0.00010	<0.000050	<0.010	0.0000495	9.83	0.000110	<0.00010	0.000530	0.0430
L2378996-2	WQ4	Surface		11/5/2019	<0.00010	<0.000050	<0.010	0.0000568	9.62	0.000100	<0.00010	<0.00050	0.0670
VA20A2211-002	WQ4	Surface		2/20/2020	<0.000020	<0.000050	<0.010	0.0000782	16.4	<0.00010	<0.00010	<0.00050	0.0790
VA20A6810-002	WQ4	Surface		5/19/2020	<0.000020	<0.000050	<0.010	0.0000307	5.30	0.000160	<0.00010	0.000670	0.0780
VA20B2212-003	WQ4	Surface		8/6/2020	<0.000020	<0.000050	<0.010	0.0000600	13.0	0.000110	<0.00010	<0.00050	0.0800
VA20C1415-002	WQ4	Surface		11/19/2020	<0.000020	<0.000050	<0.010	0.0000361	8.84	0.000110	<0.00010	<0.00050	0.0670
	WQ5	Surface	Dup	5/17/2011	< 0.0001	-	< 0.001	0.0000410	4.70	0.000600	0.000130	0.00340	0.488
	WQ5	Surface		5/17/2011	< 0.0001	-	< 0.001	0.0000290	4.70	0.000600	0.000140	0.00100	0.500
	WQ5	Surface		5/25/2011	< 0.0001	-	0.00100	0.0000170	3.10	0.000400	0.0000700	0.000600	0.225
	WQ5	Surface		5/31/2011	< 0.0001	-	< 0.001	< 0.000015	2.60	0.000300	0.0000500	0.000600	0.151
	WQ5	Surface		6/7/2011	< 0.0001	-	< 0.001	< 0.000015	2.50	< 0.0003	0.0000500	0.000600	0.144
	WQ5	Surface		6/14/2011	< 0.0001	-	< 0.001	< 0.000015	2.70	< 0.0003	0.0000500	0.000600	0.123
	WQ5	Surface		7/19/2011	< 0.0001	-	< 0.001	< 0.000015	4.00	< 0.0003	0.0000300	0.000500	0.142
	WQ5	Surface		8/16/2011	< 0.0001	-	< 0.001	< 0.000015	5.00	< 0.0003	0.0000300	0.000400	0.132
	WQ5	Surface		9/20/2011	< 0.0001	-	< 0.001	< 0.000015	7.80	0.000300	< 0.00002	0.000300	0.137

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Beryllium (Be)-Total	Bismuth (Bi)-Total	Boron (B)-Total	Cadmium (Cd)-Total	Calcium (Ca)-Total	Chromium (Cr)-Total	Cobalt (Co)-Total	Copper (Cu)-Total	Iron (Fe)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ5	Surface		10/18/2011	< 0.0001	-	0.00700	< 0.000015	6.50	< 0.0003	0.0000300	0.000200	0.115
	WQ5	Surface		11/15/2011	< 0.0001	-	0.00100	< 0.000015	6.50	< 0.0003	0.0000300	0.000200	0.134
	WQ5	Surface		12/12/2011	< 0.0001	-	0.00200	0.0000310	8.50	< 0.0003	0.0000500	0.000500	0.218
	WQ5	Surface		5/14/2012	< 0.0001	-	< 0.001	0.0000190	3.40	< 0.0003	0.000120	0.000600	0.330
	WQ5	Surface		5/22/2012	< 0.0001	-	< 0.001	< 0.000015	3.00	< 0.0003	0.0000400	0.000400	0.225
	WQ5	Surface		5/29/2012	< 0.0001	-	< 0.001	< 0.000015	2.60	< 0.0003	0.000400	0.000200	0.118
	WQ5	Surface		6/5/2012	< 0.0001	-	< 0.001	< 0.000015	3.00	0.000400	0.0000300	0.000400	0.105
	WQ5	Surface		6/12/2012	< 0.0001	-	< 0.001	< 0.000015	3.20	< 0.0003	0.0000300	0.000300	0.101
	WQ5	Surface		6/19/2012	< 0.0001	-	< 0.001	< 0.000015	3.40	0.000500	< 0.00002	< 0.0001	0.0977
	WQ5	Surface		7/17/2012	< 0.0001	-	< 0.001	< 0.000015	5.00	0.000500	< 0.00002	0.000400	0.107
	WQ5	Surface		8/14/2012	< 0.0001	-	0.00200	< 0.000015	5.70	< 0.0003	< 0.00002	< 0.0001	0.104
	WQ5	Surface		9/18/2012	< 0.0001	-	< 0.001	< 0.000015	7.20	< 0.0003	0.0000300	0.000100	0.126
	WQ5	Surface		10/15/2012	< 0.0001	-	< 0.001	< 0.000015	8.90	< 0.0003	0.0000300	< 0.0001	0.122
	WQ5	Surface		11/13/2012	< 0.0001	-	< 0.001	0.0000250	7.50	0.000300	0.0000300	< 0.0001	0.143
	WQ5	Surface		1/13/2013	< 0.0001	-	< 0.001	0.000105	12.1	< 0.0003	0.0000600	0.000500	0.374
	WQ5	Surface		4/15/2013	< 0.0001	-	0.00500	< 0.000015	6.20	< 0.0003	0.0000500	0.000700	0.225
	WQ5	Surface		5/13/2013	< 0.0001	-	< 0.001	< 0.000015	2.70	< 0.0003	0.0000500	0.000600	0.150
	WQ5	Surface		5/22/2013	< 0.0001	-	< 0.001	< 0.000015	2.90	< 0.0003	0.0000500	0.000200	0.135
	WQ5	Surface		5/27/2013	< 0.0001	-	< 0.001	< 0.000015	3.70	< 0.0003	0.0000400	0.000600	0.139
	WQ5	Surface		6/6/2013	< 0.0001	-	0.00100	< 0.000015	3.50	< 0.0003	0.0000400	0.000400	0.117
	WQ5	Surface		6/10/2013	< 0.0001	-	< 0.001	< 0.000015	3.70	< 0.0003	0.0000300	0.000300	0.105
	WQ5	Surface		6/17/2013	< 0.0001	-	< 0.001	< 0.000015	3.70	< 0.0003	0.0000500	< 0.0001	0.117
	WQ5	Surface		4/13/2014	< 0.0001	-	< 0.001	< 0.000015	7.80	0.000400	0.0000400	0.000500	0.116
	WQ5	Surface		7/2/2014	< 0.0001	-	< 0.001	< 0.000015	5.20	< 0.0003	0.0000200	0.000500	0.101
	WQ5	Surface		9/24/2014	< 0.0001	-	< 0.001	< 0.000015	13.9	< 0.0003	0.0000300	0.000300	0.242
	WQ5	Surface		12/8/2014	< 0.0001	-	< 0.001	< 0.000015	10.2	< 0.0003	0.0000300	0.000300	0.156
L1812856-8	WQ5	Surface		8/10/2016	< 0.00010	< 0.000050	< 0.010	< 0.0000050	5.38	0.000260	< 0.00010	< 0.00050	0.140
L1815654-8	WQ5	Surface	Dup	8/16/2016	< 0.00010	< 0.000050	< 0.010	< 0.0000050	5.98	0.000180	< 0.00010	< 0.00050	0.128
L1815654-6	WQ5	Surface		8/16/2016	< 0.00010	< 0.000050	< 0.010	< 0.0000050	5.97	0.000180	< 0.00010	< 0.00050	0.127
L1819041-9	WQ5	Surface		8/23/2016	< 0.00010	< 0.000050	< 0.010	< 0.0000050	6.49	0.000250	< 0.00010	< 0.00050	0.121
L1823224-1	WQ5	Surface	Dup	8/31/2016	< 0.00010	< 0.000050	< 0.010	< 0.0000050	5.18	0.000200	< 0.00010	< 0.00050	0.256
L1823224-8	WQ5	Surface		8/31/2016	< 0.00010	< 0.000050	< 0.010	< 0.0000050	5.40	0.000210	< 0.00010	< 0.00050	0.269
L1826303-4	WQ5	Surface		9/7/2016	< 0.00010	< 0.000050	< 0.010	< 0.0000050	5.34	0.000230	< 0.00010	< 0.00050	0.210
L1925486-4	WQ5	Surface		5/10/2017	< 0.00010	< 0.000050	< 0.010	0.0000230	5.30	0.000550	0.000150	0.000880	0.451
L1962414-2	WQ5	Surface		7/19/2017	< 0.00010	< 0.000050	< 0.010	< 0.0000050	5.94	0.000240	< 0.00010	< 0.00050	0.102
L1988190-2	WQ5	Surface		9/6/2017	< 0.00010	< 0.000050	< 0.010	0.0000310	9.00	0.000760	0.000130	0.000640	0.587
L2010514-2	WQ5	Surface		10/18/2017	< 0.00010	< 0.000050	< 0.010	< 0.0000050	4.30	0.000220	< 0.00010	< 0.00050	0.213
L2060442-2	WQ5	Surface		2/23/2018	< 0.00010	< 0.000050	< 0.010	< 0.0000050	21.4	0.000150	< 0.00010	< 0.00050	0.163
L2103632-2	WQ5	Surface		5/29/2018	< 0.00010	< 0.000050	< 0.010	0.0000185	5.15	0.000510	< 0.00010	0.000620	0.191
L2143640-1	WQ5	Surface		8/7/2018	< 0.00010	< 0.000050	< 0.010	0.0000201	9.38	0.000580	< 0.00010	0.000500	0.431
L2204508-1	WQ5	Surface		11/29/2018	< 0.00010	< 0.000050	< 0.010	0.00000960	7.10	0.000380	< 0.00010	0.000510	0.193
L2232772-2	WQ5	Surface		2/12/2019	< 0.00010	< 0.000050	< 0.010	0.0000106	10.3	< 0.00060	< 0.00010	0.00161	0.178
L2273497-3	WQ5	Surface		5/13/2019	< 0.00010	< 0.000050	< 0.010	0.0000248	4.20	0.000480	< 0.00010	0.000790	0.237
L2328474-2	WQ5	Surface		8/12/2019	< 0.00010	< 0.000050	< 0.010	0.0000204	5.01	0.000420	< 0.00010	0.000570	0.260

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					Beryllium (Be)-Total	Bismuth (Bi)-Total	Boron (B)-Total	Cadmium (Cd)-Total	Calcium (Ca)-Total	Chromium (Cr)-Total	Cobalt (Co)-Total	Copper (Cu)-Total	Iron (Fe)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2385426-2	WQ5	Surface		11/18/2019	<0.00010	<0.000050	<0.010	0.0000187	3.69	0.000380	<0.00010	0.000600	0.259
VA20A1830-001	WQ5	Surface		2/12/2020	<0.000020	<0.000050	<0.010	0.00000730	9.01	0.000430	<0.00010	<0.00050	0.172
VA20A6574-002	WQ5	Surface		5/14/2020	0.0000260	<0.000050	<0.010	0.0000189	3.55	0.000420	<0.00010	0.000630	0.193
VA20B2692-001	WQ5	Surface		8/12/2020	<0.000020	<0.000050	<0.010	0.0000111	9.88	0.000430	<0.00010	<0.00050	0.217
VA20C1166-002	WQ5	Surface		11/17/2020	<0.000020	<0.000050	<0.010	0.0000167	7.12	0.000500	<0.00010	<0.00050	0.224
	WQ6	Surface		5/17/2011	< 0.0001	-	< 0.001	0.0000420	4.90	0.000500	0.000100	0.000900	0.482
	WQ6	Surface		5/24/2011	< 0.0001	-	0.00100	0.0000340	3.90	0.000300	0.0000600	0.000600	0.235
	WQ6	Surface		5/30/2011	< 0.0001	-	< 0.001	< 0.000015	3.20	< 0.0003	0.0000500	0.000600	0.154
	WQ6	Surface		6/6/2011	< 0.0001	-	< 0.001	0.0000300	3.10	< 0.0003	0.0000400	0.000500	0.102
	WQ6	Surface		6/13/2011	< 0.0001	-	< 0.001	< 0.000015	3.40	< 0.0003	0.0000300	0.000800	0.102
	WQ6	Surface		7/18/2011	< 0.0001	-	< 0.001	< 0.000015	4.40	< 0.0003	< 0.00002	0.000500	0.112
	WQ6	Surface	Dup	8/15/2011	< 0.0001	-	0.00300	< 0.000015	4.80	< 0.0003	0.0000300	0.000200	0.108
	WQ6	Surface		8/15/2011	< 0.0001	-	< 0.001	< 0.000015	5.10	< 0.0003	0.0000300	0.000300	0.108
	WQ6	Surface		9/19/2011	< 0.0001	-	< 0.001	< 0.000015	5.80	< 0.0003	< 0.00002	0.000200	0.0968
	WQ6	Surface		10/17/2011	< 0.0001	-	0.00600	< 0.000015	5.70	< 0.0003	< 0.00002	0.000100	0.0877
	WQ6	Surface		11/14/2011	< 0.0001	-	0.00100	< 0.000015	5.70	< 0.0003	0.0000300	0.000400	0.113
	WQ6	Surface		4/17/2012	< 0.0001	-	< 0.001	0.0000270	7.20	< 0.0003	0.000100	0.000400	0.435
	WQ6	Surface		5/15/2012	< 0.0001	-	< 0.001	< 0.000015	4.20	< 0.0003	0.0000200	0.000500	0.332
	WQ6	Surface		5/23/2012	< 0.0001	-	< 0.001	< 0.000015	3.90	< 0.0003	< 0.00002	0.000400	0.177
	WQ6	Surface		5/28/2012	< 0.0001	-	< 0.001	< 0.000015	3.60	< 0.0003	< 0.00002	0.000300	0.122
	WQ6	Surface		6/4/2012	< 0.0001	-	< 0.001	< 0.000015	3.70	< 0.0003	< 0.00002	0.000300	0.0884
	WQ6	Surface		6/11/2012	< 0.0001	-	< 0.001	< 0.000015	3.50	< 0.0003	< 0.00002	0.000500	0.0855
	WQ6	Surface		6/18/2012	< 0.0001	-	< 0.001	< 0.000015	3.60	< 0.0003	< 0.00002	< 0.0001	0.0754
	WQ6	Surface		7/16/2012	< 0.0001	-	< 0.001	< 0.000015	4.80	0.000300	< 0.00002	0.000200	0.0888
	WQ6	Surface		8/13/2012	< 0.0001	-	0.00100	< 0.000015	5.60	< 0.0003	0.0000200	< 0.0001	0.120
	WQ6	Surface		9/17/2012	< 0.0001	-	< 0.001	< 0.000015	6.40	< 0.0003	0.0000200	< 0.0001	0.106
	WQ6	Surface		10/16/2012	< 0.0001	-	< 0.001	< 0.000015	6.60	0.000500	0.0000300	< 0.0001	0.118
	WQ6	Surface		11/12/2012	< 0.0001	-	< 0.001	< 0.000015	6.70	0.000400	0.0000200	< 0.0001	0.0924
	WQ6	Surface		12/10/2012	< 0.0001	-	< 0.001	< 0.000015	7.60	< 0.0003	0.0000300	< 0.0001	0.158
	WQ6	Surface		1/15/2013	< 0.0001	-	< 0.001	< 0.000015	7.00	< 0.0003	0.0000200	0.000200	0.0946
	WQ6	Surface		2/13/2013	< 0.0001	-	< 0.001	< 0.000015	7.00	< 0.0003	< 0.00002	< 0.0001	0.0797
	WQ6	Surface		3/12/2013	< 0.0001	-	< 0.001	< 0.000015	8.10	< 0.0003	< 0.00002	0.000200	0.0905
	WQ6	Surface		4/16/2013	< 0.0001	-	< 0.001	< 0.000015	6.00	< 0.0003	0.0000300	0.000400	0.118
	WQ6	Surface		5/14/2013	< 0.0001	-	< 0.001	< 0.000015	3.60	< 0.0003	0.0000400	0.000600	0.132
	WQ6	Surface		5/21/2013	< 0.0001	-	< 0.001	< 0.000015	3.80	< 0.0003	0.0000300	0.000100	0.103
	WQ6	Surface		5/28/2013	< 0.0001	-	< 0.001	0.0000180	4.30	< 0.0003	< 0.00002	0.000500	0.116
	WQ6	Surface		6/4/2013	< 0.0001	-	0.00200	< 0.000015	4.00	< 0.0003	0.0000300	0.000500	0.0913
	WQ6	Surface		6/11/2013	< 0.0001	-	< 0.001	< 0.000015	4.30	< 0.0003	0.0000200	0.000200	0.0751
	WQ6	Surface		6/18/2013	< 0.0001	-	< 0.001	0.0000170	4.20	< 0.0003	0.0000600	< 0.0001	0.0829
	WQ7	Surface		4/19/2011	< 0.0001	-	0.00100	< 0.000015	17.2	< 0.0005	<0.00005	0.000200	0.172
	WQ7	Surface		5/17/2011	< 0.0001	-	0.00100	0.0000370	6.40	0.00160	0.000530	0.00170	1.49
	WQ7	Surface		5/24/2011	< 0.0001	-	0.00200	0.0000400	6.00	0.00140	0.000440	0.00140	1.18
	WQ7	Surface		5/30/2011	< 0.0001	-	0.00100	0.0000250	5.30	0.00100	0.000320	0.00130	0.761
	WQ7	Surface		6/6/2011	< 0.0001	-	< 0.001	0.0000220	4.40	0.000900	0.000270	0.00110	0.670

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Beryllium (Be)-Total	Bismuth (Bi)-Total	Boron (B)-Total	Cadmium (Cd)-Total	Calcium (Ca)-Total	Chromium (Cr)-Total	Cobalt (Co)-Total	Copper (Cu)-Total	Iron (Fe)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ7	Surface		6/13/2011	< 0.0001	-	< 0.001	< 0.000015	4.90	0.000500	0.000120	0.000800	0.320
	WQ7	Surface		7/18/2011	< 0.0001	-	0.00100	< 0.000015	7.80	0.000500	0.0000900	0.000600	0.284
	WQ7	Surface		8/15/2011	< 0.0001	-	< 0.001	< 0.000015	10.8	< 0.0003	0.0000600	0.000400	0.227
	WQ7	Surface	Dup	9/19/2011	< 0.0001	-	< 0.001	< 0.000015	13.9	< 0.0003	0.0000300	0.000300	0.160
	WQ7	Surface		9/19/2011	< 0.0001	-	< 0.001	0.0000200	13.8	< 0.0003	0.0000700	0.000400	0.159
	WQ7	Surface	Dup	10/17/2011	< 0.0001	-	0.00300	< 0.000015	12.3	< 0.0003	0.0000300	0.000100	0.138
	WQ7	Surface		10/17/2011	< 0.0001	-	0.00600	< 0.000015	12.4	< 0.0003	0.0000300	0.000200	0.128
	WQ7	Surface		11/14/2011	< 0.0001	-	0.00100	< 0.000015	12.5	< 0.0003	0.0000600	0.000200	0.223
	WQ7	Surface	Dup	12/13/2011	< 0.0001	-	< 0.001	0.0000520	14.5	< 0.0003	0.0000600	0.000400	0.171
	WQ7	Surface		12/13/2011	< 0.0001	-	< 0.001	0.0000290	14.7	0.000500	0.000170	0.000800	0.506
	WQ7	Surface		1/12/2012	< 0.0001	-	0.00100	< 0.000015	15.4	< 0.0003	0.0000400	< 0.0001	0.112
	WQ7	Surface	Dup	2/13/2012	< 0.0001	-	< 0.001	< 0.000015	17.2	< 0.0003	0.0000200	0.000200	0.109
	WQ7	Surface		2/13/2012	< 0.0001	-	< 0.001	0.0000540	18.3	0.000600	<0.00002	0.000700	0.152
	WQ7	Surface		3/12/2012	< 0.0001	-	0.00100	< 0.000015	16.8	< 0.0003	0.0000300	< 0.0001	0.103
	WQ7	Surface	Dup	4/17/2012	< 0.0001	-	< 0.001	0.0000920	15.0	< 0.0003	0.0000600	0.000300	0.223
	WQ7	Surface		4/17/2012	< 0.0001	-	< 0.001	< 0.000015	15.1	< 0.0003	0.0000500	0.000300	0.217
	WQ7	Surface		5/15/2012	< 0.0001	-	< 0.001	< 0.000015	5.90	0.000500	0.000190	0.00110	0.698
	WQ7	Surface		5/23/2012	< 0.0001	-	< 0.001	< 0.000015	5.90	0.000800	0.000180	0.000700	0.595
	WQ7	Surface	Dup	5/28/2012	< 0.0001	-	< 0.001	0.0000180	4.80	< 0.0003	0.0000700	0.000400	0.327
	WQ7	Surface		5/28/2012	< 0.0001	-	< 0.001	0.0000250	4.90	< 0.0003	0.0000500	0.000400	0.282
	WQ7	Surface		6/4/2012	< 0.0001	-	< 0.001	< 0.000015	5.40	< 0.0003	0.0000900	0.000400	0.249
	WQ7	Surface		6/11/2012	< 0.0001	-	< 0.001	< 0.000015	5.10	< 0.0003	0.0000300	0.000500	0.207
	WQ7	Surface		6/18/2012	< 0.0001	-	0.0120	0.000122	5.40	0.000700	0.000100	0.0363	0.190
	WQ7	Surface	Dup	7/16/2012	< 0.0001	-	< 0.001	< 0.000015	9.70	< 0.0003	< 0.00002	0.000300	0.119
	WQ7	Surface		7/16/2012	< 0.0001	-	< 0.001	< 0.000015	9.60	< 0.0003	< 0.00002	0.000400	0.118
	WQ7	Surface	Dup	8/13/2012	< 0.0001	-	0.00100	< 0.000015	11.6	< 0.0003	0.0000400	< 0.0001	0.194
	WQ7	Surface		8/13/2012	< 0.0001	-	0.00200	< 0.000015	11.7	< 0.0003	0.0000500	< 0.0001	0.194
	WQ7	Surface		9/17/2012	< 0.0001	-	< 0.001	< 0.000015	15.1	< 0.0003	0.0000400	0.000100	0.175
	WQ7	Surface		10/16/2012	< 0.0001	-	< 0.001	< 0.000015	16.7	< 0.0003	0.0000400	< 0.0001	0.172
	WQ7	Surface	Dup	11/12/2012	< 0.0001	-	< 0.001	< 0.000015	14.9	< 0.0003	0.0000400	< 0.0001	0.113
	WQ7	Surface		11/12/2012	< 0.0001	-	< 0.001	< 0.000015	14.7	0.000300	0.0000500	< 0.0001	0.114
	WQ7	Surface		12/10/2012	< 0.0001	-	< 0.001	< 0.000015	17.3	< 0.0003	0.0000400	< 0.0001	0.117
	WQ7	Surface	Dup	1/15/2013	< 0.0001	-	< 0.001	< 0.000015	18.6	< 0.0003	0.0000500	0.000300	0.147
	WQ7	Surface		1/15/2013	< 0.0001	-	< 0.001	0.0000180	19.0	< 0.0003	0.0000800	0.000300	0.228
	WQ7	Surface	Dup	2/13/2013	< 0.0001	-	< 0.001	0.0000170	17.5	< 0.0003	0.0000300	< 0.0001	0.109
	WQ7	Surface		2/13/2013	< 0.0001	-	< 0.001	0.000105	17.1	0.000500	0.0000600	0.00110	0.158
	WQ7	Surface		3/12/2013	< 0.0001	-	< 0.001	< 0.000015	19.7	< 0.0003	0.0000400	0.000300	0.107
	WQ7	Surface	Dup	4/16/2013	< 0.0001	-	< 0.001	< 0.000015	14.7	< 0.0003	0.0000500	0.000300	0.167
	WQ7	Surface		4/16/2013	< 0.0001	-	< 0.001	< 0.000015	15.0	< 0.0003	0.0000500	0.000300	0.170
	WQ7	Surface		5/14/2013	< 0.0001	-	< 0.001	< 0.000015	4.80	< 0.0003	0.000150	0.000600	0.414
	WQ7	Surface		5/21/2013	< 0.0001	-	< 0.001	< 0.000015	5.70	< 0.0003	0.0000800	0.000200	0.209
	WQ7	Surface		5/28/2013	< 0.0001	-	< 0.001	0.0000160	6.30	0.000300	0.000100	0.000800	0.312
	WQ7	Surface	Dup	6/4/2013	< 0.0001	-	0.00200	< 0.000015	6.30	< 0.0003	0.0000900	0.000700	0.208
	WQ7	Surface		6/4/2013	< 0.0001	-	0.00200	< 0.000015	6.30	< 0.0003	0.0000900	0.000700	0.204

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Beryllium (Be)-Total	Bismuth (Bi)-Total	Boron (B)-Total	Cadmium (Cd)-Total	Calcium (Ca)-Total	Chromium (Cr)-Total	Cobalt (Co)-Total	Copper (Cu)-Total	Iron (Fe)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ7	Surface		6/11/2013	< 0.0001	-	< 0.001	< 0.000015	7.60	< 0.0003	0.0000600	0.000200	0.138
	WQ7	Surface	Dup	6/18/2013	< 0.0001	-	< 0.001	< 0.000015	7.90	< 0.0003	0.0000800	< 0.0001	0.172
	WQ7	Surface		6/18/2013	< 0.0001	-	< 0.001	< 0.000015	8.00	< 0.0003	0.0000700	< 0.0001	0.157
	WQ7	Surface		4/13/2014	< 0.0001	-	< 0.001	< 0.000015	14.7	0.00110	0.000440	0.00170	1.79
	WQ7	Surface		7/2/2014	< 0.0001	-	< 0.001	< 0.000015	11.1	< 0.0003	0.0000300	0.000500	0.116
	WQ7	Surface		9/24/2014	< 0.0001	-	< 0.001	< 0.000015	18.8	< 0.0003	0.0000300	0.000300	0.191
	WQ7	Surface		12/9/2014	< 0.0001	-	< 0.001	< 0.000015	18.3	< 0.0003	0.0000400	0.000300	0.158
L1812856-9	WQ7	Surface		8/10/2016	< 0.00010	< 0.000050	< 0.010	< 0.0000050	10.7	0.000240	< 0.00010	< 0.00050	0.117
L1815654-9	WQ7	Surface		8/16/2016	< 0.00010	< 0.000050	< 0.010	< 0.0000050	11.8	0.000130	< 0.00010	< 0.00050	0.0990
L1819041-2	WQ7	Surface		8/23/2016	< 0.00010	< 0.000050	< 0.010	< 0.0000050	11.9	0.000240	< 0.00010	< 0.00050	0.111
L1823224-2	WQ7	Surface		8/31/2016	< 0.00010	< 0.000050	< 0.010	< 0.0000050	12.0	0.000190	< 0.00010	< 0.00050	0.104
L1826303-7	WQ7	Surface		9/7/2016	< 0.00010	< 0.000050	< 0.010	0.00000500	11.8	0.000190	< 0.00010	0.000570	0.113
L1913531-3	WQ7	Surface		4/12/2017	< 0.00010	< 0.000050	< 0.010	< 0.0000050	15.8	0.000200	< 0.00010	< 0.00050	0.109
L1926080-8	WQ7	Surface	Dup	5/11/2017	< 0.00010	< 0.000050	< 0.010	0.0000100	7.06	0.000800	0.000170	0.00100	0.439
L1926080-4	WQ7	Surface		5/11/2017	< 0.00010	< 0.000050	< 0.010	0.0000110	6.85	0.000610	0.000160	0.00103	0.410
L1939712-7	WQ7	Surface		6/7/2017	< 0.00010	< 0.000050	< 0.010	0.00000700	5.61	0.000450	< 0.00010	0.000690	0.219
L1962414-3	WQ7	Surface		7/19/2017	< 0.00010	< 0.000050	< 0.010	< 0.0000050	11.1	0.000350	< 0.00010	< 0.00050	0.165
L1984944-5	WQ7	Surface		8/30/2017	< 0.00010	< 0.000050	< 0.010	0.00000500	15.6	0.000160	< 0.00010	< 0.00050	0.244
L1988832-4	WQ7	Surface		9/9/2017	< 0.00010	< 0.000050	< 0.010	< 0.0000050	16.2	0.000180	< 0.00010	< 0.00050	0.218
L2009845-2	WQ7	Surface		10/17/2017	< 0.00010	< 0.000050	< 0.010	0.0000230	11.4	0.000650	0.000310	0.000640	1.03
L2020333-6	WQ7	Surface	Dup	11/7/2017	< 0.00010	< 0.000050	< 0.010	< 0.0000050	9.40	0.000360	< 0.00010	0.000530	0.148
L2020333-2	WQ7	Surface		11/7/2017	< 0.00010	< 0.000050	< 0.010	0.00000500	8.97	0.000360	< 0.00010	0.000540	0.146
L2034610-2	WQ7	Surface		12/11/2017	< 0.00010	< 0.000050	< 0.010	< 0.0000050	11.5	0.000190	< 0.00010	< 0.00050	0.134
L2049678-1	WQ7	Surface		1/24/2018	< 0.00010	< 0.000050	< 0.010	< 0.0000050	13.8	0.000220	< 0.00010	< 0.00050	0.147
L2062480-2	WQ7	Surface		2/28/2018	< 0.00010	< 0.000050	< 0.010	< 0.0000050	14.1	0.000200	< 0.00010	< 0.00050	0.122
L2074294-1	WQ7	Surface		3/28/2018	< 0.00010	< 0.000050	< 0.010	< 0.000010	15.2	0.000220	< 0.00010	< 0.00050	0.193
L2081503-1	WQ7	Surface		4/17/2018	< 0.00010	< 0.000050	< 0.010	< 0.0000050	14.6	0.000180	< 0.00010	< 0.00050	0.161
L2097084-8	WQ7	Surface	Dup	5/16/2018	< 0.00010	< 0.000050	< 0.010	0.0000221	4.19	0.00188	0.000500	0.00161	1.26
L2097084-1	WQ7	Surface		5/16/2018	< 0.00010	< 0.000050	< 0.010	0.0000185	4.00	0.00166	0.000510	0.00162	1.19
L2104479-1	WQ7	Surface		5/30/2018	< 0.00010	< 0.000050	< 0.010	0.0000110	5.75	0.000360	< 0.00010	0.000710	0.197
L2132128-7	WQ7	Surface	Dup	7/17/2018	< 0.00010	< 0.000050	< 0.010	0.00000850	11.6	0.000210	< 0.00010	0.000640	0.0870
L2132128-1	WQ7	Surface		7/17/2018	< 0.00010	< 0.000050	< 0.010	0.00000640	11.3	0.000210	< 0.00010	< 0.00070	0.0890
L2144782-2	WQ7	Surface		8/9/2018	< 0.00010	< 0.000050	< 0.010	< 0.0000050	12.4	0.000180	< 0.00010	< 0.00050	0.116
L2164448-4	WQ7	Surface	Dup	9/12/2018	< 0.00010	< 0.000050	< 0.010	< 0.0000050	15.0	0.000290	< 0.00010	< 0.00050	0.178
L2164448-3	WQ7	Surface		9/12/2018	< 0.00010	< 0.000050	< 0.010	< 0.0000050	15.1	0.000200	< 0.00010	< 0.00050	0.156
L2187638-4	WQ7	Surface	Dup	10/24/2018	< 0.00010	< 0.000050	< 0.010	< 0.0000050	13.7	0.000180	< 0.00010	< 0.00050	0.100
L2187638-3	WQ7	Surface		10/24/2018	< 0.00010	< 0.000050	< 0.010	< 0.0000050	12.9	0.000170	< 0.00010	< 0.00050	0.0900
L2203408-2	WQ7	Surface		11/27/2018	< 0.00010	< 0.000050	< 0.010	< 0.0000050	10.1	0.000270	< 0.00010	< 0.00050	0.136
L2213684-1	WQ7	Surface		12/19/2018	< 0.00010	< 0.000050	< 0.010	< 0.0000050	12.0	0.000300	< 0.00010	< 0.00050	0.0920
L2227101-6	WQ7	Surface	Dup	1/29/2019	< 0.00010	< 0.000050	< 0.010	< 0.0000050	13.0	0.000200	< 0.00010	< 0.00050	< 0.20
L2227101-1	WQ7	Surface		1/29/2019	< 0.00010	< 0.000050	< 0.010	< 0.0000050	13.0	0.000190	< 0.00010	< 0.00050	< 0.20
L2232050-4	WQ7	Surface		2/11/2019	< 0.00010	< 0.000050	< 0.010	< 0.0000050	14.5	0.000200	< 0.00010	< 0.00050	0.0760
L2245144-4	WQ7	Surface		3/14/2019	< 0.00010	< 0.000050	< 0.010	< 0.0000050	16.5	0.000170	< 0.00010	< 0.00050	0.0740
L2256054-1	WQ7	Surface		4/9/2019	< 0.00010	< 0.000050	< 0.010	0.00000510	13.6	0.000270	< 0.00010	< 0.00050	0.174

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LabID	Site	Depth	QAQC	Date	Total Metals								
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					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2269368-6	WQ7	Surface	Dup	5/4/2019	<0.00010	<0.000050	<0.010	0.00000850	7.68	0.000470	0.000140	0.000800	0.384
L2269368-1	WQ7	Surface		5/4/2019	<0.00010	<0.000050	<0.010	0.00000910	7.56	0.000440	0.000120	0.000770	0.353
L2277964-4	WQ7	Surface		5/21/2019	<0.00010	<0.000050	<0.010	0.0000339	5.20	0.00166	0.000590	0.00196	1.31
L2282191-2	WQ7	Surface		5/28/2019	<0.00010	<0.000050	<0.010	0.00000670	5.29	0.000310	<0.00010	0.000690	0.215
L2282975-1	WQ7	Surface		5/29/2019	<0.00010	<0.000050	<0.010	0.00000960	7.08	0.000440	0.000100	0.000780	0.251
L2286702-5	WQ7	Surface	Dup	6/4/2019	<0.00010	<0.000050	<0.010	<0.0000050	7.50	<0.00060	<0.00010	0.000600	0.135
L2286702-1	WQ7	Surface		6/4/2019	<0.00010	<0.000050	<0.010	<0.0000050	7.41	<0.00060	<0.00010	0.000590	0.139
L2313851-2	WQ7	Surface		7/18/2019	<0.00010	<0.000050	<0.010	0.00000560	7.77	0.000290	<0.00010	0.000650	0.173
L2328474-3	WQ7	Surface		8/12/2019	<0.00010	<0.000050	<0.010	<0.0000050	7.71	0.000260	<0.00010	0.000550	0.164
L2349445-1	WQ7	Surface		9/16/2019	<0.00010	<0.000050	<0.010	<0.0000050	11.3	0.000190	<0.00010	0.000530	0.150
L2371052-1	WQ7	Surface		10/22/2019	<0.00010	<0.000050	<0.010	0.0000163	9.14	0.000240	<0.00010	<0.00050	0.147
L2388381-1	WQ7	Surface		11/25/2019	<0.00010	<0.000050	<0.010	0.00000750	7.42	0.000290	<0.00010	0.000610	0.178
VA19A0791-001	WQ7	Surface		12/17/2019	<0.000020	<0.000050	<0.010	<0.0000050	9.86	0.000240	<0.00010	<0.00050	0.123
VA20A0960-001	WQ7	Surface		1/27/2020	<0.000020	<0.000050	<0.010	<0.0000050	12.6	0.000180	<0.00010	0.000640	0.100
VA20A2126-004	WQ7	Surface		2/19/2020	<0.000020	<0.000050	<0.010	<0.0000300	13.2	0.000180	<0.00010	<0.00050	0.123
VA20A3691-002	WQ7	Surface		3/18/2020	<0.000020	<0.000050	<0.010	<0.0000050	14.1	0.000180	<0.00010	<0.00050	0.0870
VA20A4555-002	WQ7	Surface		4/7/2020	<0.000020	<0.000050	<0.010	<0.0000050	16.4	0.000210	<0.00010	0.00655	0.0860
VA20A6218-002	WQ7	Surface		5/7/2020	0.0000320	<0.000050	<0.010	0.00000880	6.41	0.000390	<0.00010	0.000640	0.200
VA20A6503-003	WQ7	Surface		5/13/2020	0.0000280	<0.000050	<0.010	0.00000810	5.36	0.000460	0.000100	0.00108	0.254
VA20A6869-001	WQ7	Surface		5/20/2020	0.0000280	<0.000050	<0.010	0.00000950	4.42	0.000380	0.000100	0.000730	0.283
VA20A7367-001	WQ7	Surface		5/28/2020	0.0000260	<0.000050	<0.010	0.00000650	5.24	0.000310	0.000100	0.000920	0.217
VA20A7672-004	WQ7	Surface		6/2/2020	0.0000230	<0.000050	<0.010	<0.0000050	5.76	0.000220	<0.00010	0.000640	0.116
VA20A9918-005	WQ7	Surface	Dup	7/6/2020	0.0000220	<0.000050	<0.010	0.00000560	8.34	0.000240	<0.00010	0.000540	0.130
VA20A9918-001	WQ7	Surface		7/6/2020	0.0000240	<0.000050	<0.010	<0.0000050	8.33	0.000200	<0.00010	<0.00050	0.118
VA20B2156-004	WQ7	Surface		8/5/2020	<0.000020	<0.000050	<0.010	<0.0000050	11.5	0.000170	<0.00010	<0.00050	0.116
VA20B2542-005	WQ7	Surface	Dup	8/11/2020	<0.000020	<0.000050	<0.010	<0.0000050	11.7	0.000200	<0.00010	<0.00050	0.125
VA20B2542-003	WQ7	Surface		8/11/2020	<0.000020	<0.000050	<0.010	<0.0000050	11.7	0.000210	<0.00010	<0.00050	0.108
VA20B3218-001	WQ7	Surface		8/18/2020	<0.000020	<0.000050	<0.010	<0.0000050	12.3	0.000220	<0.00010	<0.00050	0.152
VA20B3609-002	WQ7	Surface		8/24/2020	<0.000020	<0.000050	<0.010	<0.0000050	10.9	0.000180	<0.00010	<0.00050	0.126
VA20B4443-003	WQ7	Surface		9/2/2020	<0.000020	<0.000050	<0.010	<0.0000050	12.0	0.000140	<0.00010	<0.00050	0.124
VA20B7624-001	WQ7	Surface		10/6/2020	<0.000020	<0.000050	<0.010	0.00000510	12.8	0.000170	<0.00010	<0.00050	0.143
VA20C0298-001	WQ7	Surface		11/5/2020	0.0000240	<0.000050	<0.010	0.00000840	6.56	0.000420	0.000120	0.000770	0.319
	WQ8	Surface		4/19/2011	< 0.0001	-	0.00100	< 0.000015	21.6	< 0.0005	<0.00005	0.000200	0.00950
	WQ8	Surface		5/17/2011	< 0.0001	-	0.00100	< 0.000015	19.7	< 0.0003	< 0.00002	0.000300	0.0227
	WQ8	Surface	Dup	5/24/2011	< 0.0001	-	0.00200	0.0000220	20.6	< 0.0003	0.0000300	0.000200	0.0693
	WQ8	Surface		5/24/2011	< 0.0001	-	0.00300	0.0000240	20.5	< 0.0003	0.0000300	0.000300	0.0541
	WQ8	Surface		5/30/2011	< 0.0001	-	0.00400	< 0.000015	17.8	< 0.0003	0.0000300	0.000300	0.0675
	WQ8	Surface		6/6/2011	< 0.0001	-	0.00100	< 0.000015	18.4	< 0.0003	0.0000300	0.000500	0.0662
	WQ8	Surface	Dup	6/13/2011	< 0.0001	-	0.00200	< 0.000015	18.2	< 0.0003	0.0000600	0.000600	0.123
	WQ8	Surface		6/13/2011	< 0.0001	-	0.00200	< 0.000015	18.1	< 0.0003	0.0000700	0.000600	0.128
	WQ8	Surface		7/18/2011	< 0.0001	-	0.00100	< 0.000015	18.2	< 0.0003	0.0000500	0.000400	0.170
	WQ8	Surface		8/15/2011	< 0.0001	-	0.00100	< 0.000015	19.5	< 0.0003	0.0000200	0.000900	0.0416
	WQ8	Surface		9/19/2011	< 0.0001	-	< 0.001	< 0.000015	19.0	< 0.0003	< 0.00002	0.000300	0.0313
	WQ8	Surface		10/17/2011	< 0.0001	-	0.00500	< 0.000015	21.3	< 0.0003	0.0000300	0.00450	0.0325

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					Beryllium (Be)-Total	Bismuth (Bi)-Total	Boron (B)-Total	Cadmium (Cd)-Total	Calcium (Ca)-Total	Chromium (Cr)-Total	Cobalt (Co)-Total	Copper (Cu)-Total	Iron (Fe)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ8	Surface		11/14/2011	< 0.0001	-	0.00200	< 0.000015	20.2	< 0.0003	< 0.00002	0.000200	0.0289
	WQ8	Surface		12/12/2011	< 0.0001	-	0.00200	< 0.000015	22.1	< 0.0003	0.0000700	0.000500	0.235
	WQ8	Surface		1/12/2012	< 0.0001	-	0.00200	< 0.000015	21.8	< 0.0003	< 0.00002	< 0.0001	0.0211
	WQ8	Surface		2/13/2012	< 0.0001	-	< 0.001	< 0.000015	23.2	< 0.0003	< 0.00002	0.000300	0.0232
	WQ8	Surface		3/12/2012	< 0.0001	-	0.00200	< 0.000015	22.9	< 0.0003	< 0.00002	< 0.0001	0.0416
	WQ8	Surface		4/16/2012	< 0.0001	-	< 0.001	< 0.000015	19.6	< 0.0003	0.0000300	0.000600	0.0293
	WQ8	Surface		5/14/2012	< 0.0001	-	< 0.001	0.0000170	19.9	< 0.0003	0.0000300	0.000700	0.0831
	WQ8	Surface		5/22/2012	< 0.0001	-	0.00100	< 0.000015	19.6	< 0.0003	< 0.00002	0.00330	0.0643
	WQ8	Surface		5/28/2012	< 0.0001	-	< 0.001	0.0000180	19.7	< 0.0003	< 0.00002	0.000300	0.0443
	WQ8	Surface		6/4/2012	< 0.0001	-	< 0.001	< 0.000015	19.5	< 0.0003	< 0.00002	0.000200	0.0433
	WQ8	Surface		6/11/2012	< 0.0001	-	0.00100	< 0.000015	25.4	< 0.0003	< 0.00002	0.000200	0.0296
	WQ8	Surface		6/18/2012	< 0.0001	-	< 0.001	< 0.000015	19.2	< 0.0003	< 0.00002	< 0.0001	0.0278
	WQ8	Surface		7/16/2012	< 0.0001	-	< 0.001	< 0.000015	19.7	< 0.0003	< 0.00002	0.000300	0.0322
	WQ8	Surface		8/13/2012	< 0.0001	-	0.00200	< 0.000015	21.0	< 0.0003	0.0000300	< 0.0001	0.0323
	WQ8	Surface		9/17/2012	< 0.0001	-	0.00100	< 0.000015	20.7	< 0.0003	0.0000400	0.000200	0.122
	WQ8	Surface		10/15/2012	< 0.0001	-	< 0.001	< 0.000015	22.0	< 0.0003	< 0.00002	0.000300	0.0320
	WQ8	Surface		11/13/2012	< 0.0001	-	< 0.001	< 0.000015	20.5	< 0.0003	0.0000700	< 0.0001	0.197
	WQ8	Surface		1/13/2013	< 0.0001	-	< 0.001	< 0.000015	24.0	< 0.0003	< 0.00002	0.000300	0.0384
	WQ8	Surface		2/12/2013	< 0.0001	-	< 0.001	< 0.000015	24.0	< 0.0003	< 0.00002	< 0.0001	0.0125
	WQ8	Surface	Dup	3/11/2013	< 0.0001	-	< 0.001	< 0.000015	24.7	< 0.0003	< 0.00002	0.000500	0.0178
	WQ8	Surface		3/11/2013	< 0.0001	-	< 0.001	< 0.000015	24.1	< 0.0003	< 0.00002	0.000400	0.0140
	WQ8	Surface		4/15/2013	< 0.0001	-	0.00700	< 0.000015	16.1	< 0.0003	0.0000300	0.000500	0.112
	WQ8	Surface		5/13/2013	< 0.0001	-	< 0.001	< 0.000015	20.9	< 0.0003	0.0000200	0.000300	0.0661
	WQ8	Surface		5/22/2013	< 0.0001	-	0.00200	< 0.000015	25.0	< 0.0003	0.0000900	0.000600	0.444
	WQ8	Surface		5/27/2013	< 0.0001	-	0.00200	< 0.000015	23.3	< 0.0003	< 0.00002	0.000400	0.0532
	WQ8	Surface		6/6/2013	< 0.0001	-	0.00200	< 0.000015	20.3	< 0.0003	0.0000200	< 0.0001	0.0284
	WQ8	Surface		6/10/2013	< 0.0001	-	0.00100	< 0.000015	20.2	< 0.0003	0.0000400	< 0.0001	0.0764
	WQ8	Surface		6/17/2013	< 0.0001	-	0.00100	< 0.000015	19.1	< 0.0003	0.0000300	< 0.0001	0.0500
	WQ8	Surface		4/13/2014	< 0.0001	-	< 0.001	< 0.000015	19.5	< 0.0003	0.0000300	0.000300	0.0508
	WQ8	Surface		7/2/2014	< 0.0001	-	< 0.001	< 0.000015	20.4	< 0.0003	< 0.00002	0.000400	0.0280
	WQ8	Surface		9/24/2014	< 0.0001	-	< 0.001	< 0.000015	22.1	< 0.0003	< 0.00005	0.000400	0.0284
	WQ8	Surface	Dup	12/9/2014	< 0.0001	-	< 0.001	< 0.000015	23.6	< 0.0003	< 0.00002	0.000300	0.0187
	WQ8	Surface		12/9/2014	< 0.0001	-	0.00100	< 0.000015	24.2	< 0.0003	< 0.00002	0.000300	0.0186
L1913531-6	WQ8	Surface		4/12/2017	< 0.00010	< 0.000050	< 0.010	< 0.0000050	17.9	< 0.00010	< 0.00010	< 0.00050	< 0.030
L1926080-3	WQ8	Surface		5/11/2017	< 0.00010	< 0.000050	< 0.010	< 0.0000050	21.7	< 0.00010	< 0.00010	< 0.00050	< 0.030
L1939712-8	WQ8	Surface		6/7/2017	< 0.00010	< 0.000050	< 0.010	< 0.0000050	19.0	< 0.00010	< 0.00010	< 0.00050	< 0.030
L1962414-4	WQ8	Surface		7/19/2017	< 0.00010	< 0.000050	< 0.010	< 0.0000050	18.8	< 0.00010	< 0.00010	< 0.00050	< 0.030
L1984944-6	WQ8	Surface		8/30/2017	< 0.00010	< 0.000050	< 0.010	< 0.0000050	20.4	< 0.00010	< 0.00010	< 0.00050	< 0.030
L1987355-1	WQ8	Surface		9/5/2017	< 0.00010	< 0.000050	< 0.010	< 0.0000050	21.0	0.000100	< 0.00010	< 0.00050	< 0.030
L2009845-4	WQ8	Surface		10/17/2017	< 0.00010	< 0.000050	< 0.010	< 0.0000050	19.3	< 0.00010	< 0.00010	< 0.00050	0.0380
L2020333-4	WQ8	Surface		11/7/2017	< 0.00010	< 0.000050	< 0.010	< 0.0000050	20.4	0.000200	< 0.00010	< 0.00050	0.0580
L2034610-1	WQ8	Surface		12/11/2017	< 0.00010	< 0.000050	< 0.010	< 0.0000050	23.6	< 0.00010	< 0.00010	< 0.00050	< 0.030
L2049224-5	WQ8	Surface	Dup	1/23/2018	< 0.00010	< 0.000050	< 0.010	< 0.0000050	21.8	0.000120	< 0.00010	< 0.00050	< 0.030
L2049224-1	WQ8	Surface		1/23/2018	< 0.00010	< 0.000050	< 0.010	< 0.0000050	21.6	< 0.00010	< 0.00010	< 0.00050	< 0.030

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Beryllium (Be)-Total	Bismuth (Bi)-Total	Boron (B)-Total	Cadmium (Cd)-Total	Calcium (Ca)-Total	Chromium (Cr)-Total	Cobalt (Co)-Total	Copper (Cu)-Total	Iron (Fe)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2057954-1	WQ8	Surface		2/15/2018	<0.00010	<0.000050	<0.010	<0.0000050	22.6	<0.00010	<0.00010	<0.00050	<0.030
L2073898-2	WQ8	Surface		3/27/2018	<0.00010	<0.000050	<0.010	0.0000602	19.8	0.000130	<0.00010	0.000640	0.0350
L2081503-2	WQ8	Surface		4/17/2018	<0.00010	<0.000050	<0.010	<0.0000050	21.0	<0.00010	<0.00010	<0.00050	0.0380
L2096380-1	WQ8	Surface		5/15/2018	<0.00010	<0.000050	<0.010	<0.0000050	19.3	0.000180	<0.00010	<0.00050	0.0940
L2104479-2	WQ8	Surface		5/30/2018	<0.00010	<0.000050	<0.010	<0.0000050	17.7	0.000220	<0.00010	<0.00050	0.0540
L2132128-2	WQ8	Surface		7/17/2018	<0.00010	<0.000050	<0.010	<0.0000050	17.8	<0.00010	<0.00010	<0.00050	<0.030
L2144782-1	WQ8	Surface		8/9/2018	<0.00010	<0.000050	<0.010	<0.0000050	19.4	0.000140	<0.00010	<0.00050	<0.030
L2164448-2	WQ8	Surface		9/12/2018	<0.00010	<0.000050	<0.010	<0.0000050	19.5	<0.00010	<0.00010	<0.00050	<0.030
L2187638-2	WQ8	Surface		10/24/2018	<0.00010	<0.000050	<0.010	<0.0000050	23.2	<0.00010	<0.00010	<0.00050	0.0310
L2203408-3	WQ8	Surface		11/27/2018	<0.00010	<0.000050	<0.010	<0.0000050	21.2	<0.00010	<0.00010	<0.00050	0.0600
L2213684-6	WQ8	Surface	Dup	12/19/2018	<0.00010	<0.000050	<0.010	<0.0000050	21.5	<0.00010	<0.00010	<0.00050	<0.030
L2213684-2	WQ8	Surface		12/19/2018	<0.00010	<0.000050	<0.010	<0.0000050	21.0	<0.00010	<0.00010	<0.00050	<0.030
L2227101-2	WQ8	Surface		1/29/2019	<0.00010	<0.000050	<0.010	<0.0000050	21.7	<0.00010	<0.00010	<0.00050	<0.030
L2232050-5	WQ8	Surface		2/11/2019	<0.00010	<0.000050	<0.010	<0.0000050	21.9	<0.00010	<0.00010	<0.00050	<0.030
L2245144-1	WQ8	Surface		3/14/2019	<0.00010	<0.000050	<0.010	<0.0000050	21.2	<0.00010	<0.00010	<0.00050	<0.030
L2256054-2	WQ8	Surface		4/9/2019	<0.00010	<0.000050	<0.010	<0.0000050	17.6	<0.00010	<0.00010	<0.00050	0.0310
L2277964-1	WQ8	Surface		5/21/2019	<0.00010	<0.000050	<0.010	<0.0000050	18.4	<0.00010	<0.00010	<0.00050	<0.030
L2286702-2	WQ8	Surface		6/4/2019	<0.00010	<0.000050	<0.010	<0.0000050	19.3	<0.00040	<0.00010	<0.00050	0.0390
L2313851-3	WQ8	Surface		7/18/2019	<0.00010	<0.000050	<0.010	<0.0000050	19.1	<0.00010	<0.00010	<0.00050	<0.030
L2328474-4	WQ8	Surface		8/12/2019	<0.00010	<0.000050	<0.010	<0.0000050	17.8	<0.00010	<0.00010	<0.00050	<0.030
L2349445-2	WQ8	Surface		9/16/2019	<0.00010	<0.000050	<0.010	<0.0000050	18.8	<0.00010	<0.00010	<0.00050	<0.030
L2371052-2	WQ8	Surface		10/22/2019	<0.00010	<0.000050	<0.010	<0.0000050	19.6	<0.00010	<0.00010	<0.00050	0.0590
L2388381-2	WQ8	Surface		11/25/2019	<0.00010	<0.000050	<0.010	<0.0000050	18.6	<0.00010	<0.00010	<0.00050	<0.030
VA19A0791-002	WQ8	Surface		12/17/2019	<0.000020	<0.000050	<0.010	<0.0000050	23.2	<0.00010	<0.00010	<0.00050	0.0160
VA20A0960-002	WQ8	Surface		1/27/2020	<0.000020	<0.000050	<0.010	<0.0000050	20.8	<0.00010	<0.00010	<0.00050	0.0210
VA20A2126-002	WQ8	Surface		2/19/2020	<0.000020	<0.000050	<0.010	<0.0000050	20.7	<0.00010	<0.00010	<0.00050	0.0170
VA20A3691-003	WQ8	Surface		3/18/2020	<0.000020	<0.000050	<0.010	<0.0000050	20.9	<0.00010	<0.00010	<0.00050	0.0120
VA20A4555-003	WQ8	Surface		4/7/2020	<0.000020	<0.000050	<0.010	<0.0000050	26.0	<0.00010	<0.00010	<0.00050	<0.010
VA20A6356-001	WQ8	Surface		5/11/2020	<0.000020	<0.000050	<0.010	<0.0000050	19.3	<0.00010	<0.00010	<0.00050	0.0540
VA20A7797-004	WQ8	Surface		6/3/2020	<0.000020	<0.000050	<0.010	<0.0000050	19.4	0.000320	<0.00010	0.00320	0.0300
VA20B0021-004	WQ8	Surface		7/7/2020	<0.000020	<0.000050	<0.010	<0.0000050	18.7	<0.00010	<0.00010	<0.00050	0.0180
VA20B2156-005	WQ8	Surface		8/5/2020	<0.000020	<0.000050	<0.010	<0.0000050	20.6	0.000150	<0.00010	<0.00050	0.0200
VA20B4443-004	WQ8	Surface		9/2/2020	<0.000020	<0.000050	<0.010	<0.0000050	18.1	<0.00010	<0.00010	<0.00050	0.0500
VA20B7624-002	WQ8	Surface		10/6/2020	<0.000020	<0.000050	<0.010	<0.0000050	19.2	<0.00010	<0.00010	<0.00050	0.0340
VA20C0298-002	WQ8	Surface		11/5/2020	<0.000020	<0.000050	<0.010	<0.0000050	16.9	0.000280	<0.00010	<0.00050	0.286
	WQ9	Surface	Dup	3/30/2011	< 0.0001	-	< 0.001	< 0.000015	22.0	< 0.0005	<0.00005	0.000200	0.179
	WQ9	Surface		3/30/2011	< 0.0001	-	0.00100	< 0.000015	21.7	< 0.0005	<0.00005	0.000200	0.199
	WQ9	Surface	Dup	4/19/2011	< 0.0001	-	0.00100	< 0.000015	21.7	< 0.0005	0.0000500	0.000300	0.241
	WQ9	Surface		4/19/2011	< 0.0001	-	< 0.001	< 0.000015	21.8	< 0.0005	0.0000700	0.000400	0.295
	WQ9	Surface		5/17/2011	< 0.0001	-	0.00100	0.0000260	14.8	0.000300	0.0000800	0.000600	0.286
	WQ9	Surface		5/24/2011	< 0.0001	-	0.00200	0.0000160	14.7	0.000300	0.0000800	0.000600	0.266
	WQ9	Surface	Dup	5/30/2011	< 0.0001	-	0.00200	< 0.000015	13.9	< 0.0003	0.0000800	0.000800	0.209
	WQ9	Surface		5/30/2011	< 0.0001	-	0.00200	< 0.000015	13.7	< 0.0003	0.0000700	0.000700	0.193
	WQ9	Surface		6/6/2011	< 0.0001	-	< 0.001	0.0000210	14.7	< 0.0003	0.0000500	0.000600	0.146

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Beryllium (Be)-Total	Bismuth (Bi)-Total	Boron (B)-Total	Cadmium (Cd)-Total	Calcium (Ca)-Total	Chromium (Cr)-Total	Cobalt (Co)-Total	Copper (Cu)-Total	Iron (Fe)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ9	Surface		6/13/2011	< 0.0001	-	0.00200	< 0.000015	15.0	< 0.0003	0.0000700	0.000700	0.152
	WQ9	Surface		7/18/2011	< 0.0001	-	0.00100	< 0.000015	15.4	< 0.0003	0.0000500	0.000600	0.213
	WQ9	Surface		8/15/2011	< 0.0001	-	0.00200	< 0.000015	18.5	< 0.0003	0.0000400	0.000400	0.161
	WQ9	Surface		9/19/2011	< 0.0001	-	< 0.001	< 0.000015	18.1	< 0.0003	0.0000300	0.000400	0.235
	WQ9	Surface		10/17/2011	< 0.0001	-	0.00500	< 0.000015	18.7	< 0.0003	0.0000300	0.000200	0.234
	WQ9	Surface		11/14/2011	< 0.0001	-	0.00100	< 0.000015	19.1	< 0.0003	0.0000500	0.000300	0.199
	WQ9	Surface		12/12/2011	< 0.0001	-	0.00200	< 0.000015	20.6	< 0.0003	0.0000300	0.000300	0.131
	WQ9	Surface		1/12/2012	< 0.0001	-	0.00200	< 0.000015	22.0	< 0.0003	0.0000400	0.000200	0.190
	WQ9	Surface		2/13/2012	< 0.0001	-	< 0.001	< 0.000015	21.7	< 0.0003	< 0.00002	0.000400	0.132
	WQ9	Surface		3/12/2012	< 0.0001	-	0.00100	< 0.000015	21.8	< 0.0003	0.0000300	< 0.0001	0.144
	WQ9	Surface		4/17/2012	< 0.0001	-	< 0.001	< 0.000015	19.0	< 0.0003	0.0000800	0.000300	0.340
	WQ9	Surface		5/14/2012	< 0.0001	-	< 0.001	0.0000500	15.8	< 0.0003	0.000110	0.000500	0.294
	WQ9	Surface	Dup	5/22/2012	< 0.0001	-	< 0.001	< 0.000015	15.1	< 0.0003	0.0000500	0.000400	0.281
	WQ9	Surface		5/22/2012	< 0.0001	-	< 0.001	< 0.000015	15.0	< 0.0003	0.0000400	0.00190	0.235
	WQ9	Surface		5/28/2012	< 0.0001	-	< 0.001	0.0000580	14.5	< 0.0003	0.0000400	0.000400	0.248
	WQ9	Surface		6/4/2012	< 0.0001	-	< 0.001	< 0.000015	15.6	< 0.0003	0.0000400	0.000300	0.146
	WQ9	Surface		6/11/2012	< 0.0001	-	< 0.001	< 0.000015	15.7	< 0.0003	0.0000500	0.000400	0.128
	WQ9	Surface		6/18/2012	< 0.0001	-	< 0.001	< 0.000015	16.0	< 0.0003	< 0.00002	< 0.0001	0.139
	WQ9	Surface		7/16/2012	< 0.0001	-	< 0.001	< 0.000015	18.5	< 0.0003	< 0.00002	0.000300	0.115
	WQ9	Surface		8/13/2012	< 0.0001	-	0.00200	< 0.000015	20.0	< 0.0003	0.0000300	< 0.0001	0.163
	WQ9	Surface		9/17/2012	< 0.0001	-	< 0.001	< 0.000015	20.8	< 0.0003	0.0000300	0.000100	0.154
	WQ9	Surface		10/16/2012	< 0.0001	-	< 0.001	< 0.000015	21.0	< 0.0003	0.0000300	0.000200	0.181
	WQ9	Surface		11/12/2012	< 0.0001	-	< 0.001	< 0.000015	19.4	< 0.0003	0.0000400	< 0.0001	0.180
	WQ9	Surface	Dup	12/10/2012	< 0.0001	-	< 0.001	< 0.000015	22.6	< 0.0003	0.0000300	< 0.0001	0.133
	WQ9	Surface		12/10/2012	< 0.0001	-	< 0.001	< 0.000015	22.2	< 0.0003	0.0000300	< 0.0001	0.134
	WQ9	Surface		1/15/2013	< 0.0001	-	< 0.001	< 0.000015	22.8	< 0.0003	0.0000300	0.000300	0.120
	WQ9	Surface		2/13/2013	< 0.0001	-	< 0.001	< 0.000015	21.8	< 0.0003	0.0000300	< 0.0001	0.123
	WQ9	Surface		3/12/2013	< 0.0001	-	< 0.001	< 0.000015	23.2	< 0.0003	0.0000300	0.000300	0.112
	WQ9	Surface		4/16/2013	< 0.0001	-	< 0.001	< 0.000015	19.3	< 0.0003	0.0000700	0.000600	0.206
	WQ9	Surface		5/14/2013	< 0.0001	-	< 0.001	< 0.000015	16.0	< 0.0003	0.0000700	0.000500	0.218
	WQ9	Surface		5/21/2013	< 0.0001	-	0.00100	< 0.000015	17.2	< 0.0003	0.0000500	< 0.0001	0.151
	WQ9	Surface	Dup	5/28/2013	< 0.0001	-	0.00100	< 0.000015	17.7	< 0.0003	0.0000500	0.000600	0.181
	WQ9	Surface		5/28/2013	< 0.0001	-	0.00100	< 0.000015	18.3	< 0.0003	0.0000400	0.000600	0.169
	WQ9	Surface		6/4/2013	< 0.0001	-	0.00200	< 0.000015	16.7	< 0.0003	0.0000600	0.000200	0.138
	WQ9	Surface		6/11/2013	< 0.0001	-	< 0.001	< 0.000015	18.8	0.000400	0.0000600	0.000200	0.115
	WQ9	Surface		6/18/2013	< 0.0001	-	< 0.001	< 0.000015	16.0	< 0.0003	0.0000500	< 0.0001	0.119
	WQ9	Surface		4/13/2014	< 0.0001	-	< 0.001	< 0.000015	19.3	< 0.0003	0.0000600	0.000400	0.194
	WQ9	Surface	Dup	7/2/2014	< 0.0001	-	< 0.001	< 0.000015	19.6	< 0.0003	0.0000300	0.0000500	0.127
	WQ9	Surface		7/2/2014	< 0.0001	-	< 0.001	< 0.000015	< 0.5	< 0.0003	< 0.00002	< 0.0001	< 0.0001
	WQ9	Surface		9/24/2014	< 0.0001	-	< 0.001	< 0.000015	21.8	< 0.0003	0.0000300	0.000300	0.213
	WQ9	Surface		12/9/2014	< 0.0001	-	< 0.001	< 0.000015	22.3	< 0.0003	0.0000300	0.000500	0.108
L1812856-10	WQ9	Surface		8/10/2016	< 0.00010	< 0.000050	< 0.010	< 0.0000050	18.6	0.000120	< 0.00010	< 0.00050	0.141
L1815654-10	WQ9	Surface		8/16/2016	< 0.00010	< 0.000050	< 0.010	< 0.0000050	18.8	< 0.00010	< 0.00010	< 0.00050	0.116
L1819041-1	WQ9	Surface		8/23/2016	< 0.00010	< 0.000050	< 0.010	< 0.0000050	19.0	0.000150	< 0.00010	< 0.00050	0.147

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Beryllium (Be)-Total	Bismuth (Bi)-Total	Boron (B)-Total	Cadmium (Cd)-Total	Calcium (Ca)-Total	Chromium (Cr)-Total	Cobalt (Co)-Total	Copper (Cu)-Total	Iron (Fe)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1823224-3	WQ9	Surface		8/31/2016	<0.00010	<0.000050	<0.010	<0.0000050	19.1	0.000180	<0.00010	0.000620	0.196
L1826303-6	WQ9	Surface	Dup	9/7/2016	<0.00010	<0.000050	<0.010	<0.0000050	19.2	0.000150	<0.00010	<0.00050	0.184
L1826303-10	WQ9	Surface		9/7/2016	<0.00010	<0.000050	<0.010	<0.0000050	11.9	0.000210	<0.00010	<0.00050	0.119
L1913531-7	WQ9	Surface		4/12/2017	<0.00010	<0.000050	<0.010	<0.0000050	18.1	0.000200	<0.00010	<0.00050	0.234
L1926080-5	WQ9	Surface		5/11/2017	<0.00010	<0.000050	<0.010	<0.0000050	17.6	0.000290	<0.00010	0.000650	0.233
L1939712-9	WQ9	Surface		6/7/2017	<0.00010	<0.000050	<0.010	<0.0000050	16.4	0.000230	<0.00010	0.000520	0.173
L1962414-5	WQ9	Surface		7/19/2017	<0.00010	<0.000050	<0.010	<0.0000050	18.4	0.000110	<0.00010	<0.00050	0.127
L1984944-7	WQ9	Surface		8/30/2017	<0.00010	<0.000050	<0.010	<0.0000050	20.5	0.000110	<0.00010	<0.00050	0.166
L1988832-5	WQ9	Surface		9/9/2017	<0.00010	<0.000050	<0.010	<0.0000050	20.8	0.000100	<0.00010	<0.00050	0.158
L2009845-6	WQ9	Surface	Dup	10/17/2017	<0.00010	<0.000050	<0.010	0.0000120	16.8	0.000200	<0.00010	<0.00050	0.226
L2009845-3	WQ9	Surface		10/17/2017	<0.00010	<0.000050	<0.010	0.00000700	17.0	0.000160	<0.00010	<0.00050	0.245
L2020333-3	WQ9	Surface		11/7/2017	<0.00010	<0.000050	<0.010	<0.0000050	17.7	0.000320	<0.00010	<0.00050	0.208
L2034610-6	WQ9	Surface	Dup	12/11/2017	<0.00010	<0.000050	<0.010	<0.0000050	21.0	0.000120	<0.00010	<0.00050	0.132
L2034610-3	WQ9	Surface		12/11/2017	<0.00010	<0.000050	<0.010	<0.0000050	20.2	0.000110	<0.00010	<0.00050	0.134
L2049224-2	WQ9	Surface		1/23/2018	<0.00010	<0.000050	<0.010	<0.0000050	19.9	0.000150	<0.00010	<0.00050	0.122
L2057025-1	WQ9	Surface		2/13/2018	<0.00010	<0.000050	<0.010	<0.0000050	21.9	0.000120	<0.00010	<0.00050	0.148
L2074294-2	WQ9	Surface		3/28/2018	<0.00010	<0.000050	<0.010	<0.000010	20.2	0.000260	<0.00010	0.000620	0.253
L2081503-3	WQ9	Surface		4/17/2018	<0.00010	<0.000050	<0.010	<0.0000050	20.4	0.000100	<0.00010	0.000510	0.132
L2097084-2	WQ9	Surface		5/16/2018	<0.00010	<0.000050	<0.010	<0.0000050	14.6	0.000360	<0.00010	0.000650	0.190
L2104479-5	WQ9	Surface	Dup	5/30/2018	<0.00010	<0.000050	<0.010	<0.0000050	15.9	0.000230	<0.00010	0.000620	0.119
L2104479-3	WQ9	Surface		5/30/2018	<0.00010	<0.000050	<0.010	<0.0000050	16.0	0.000160	<0.00010	0.000570	0.116
L2132128-3	WQ9	Surface		7/17/2018	<0.00010	<0.000050	<0.010	0.0000152	17.4	0.000140	<0.00010	0.000680	0.108
L2144782-3	WQ9	Surface		8/9/2018	<0.00010	<0.000050	<0.010	<0.0000050	18.1	0.000170	<0.00010	<0.00050	0.131
L2164448-5	WQ9	Surface		9/12/2018	<0.00010	<0.000050	<0.010	<0.0000050	18.9	0.00215	<0.00010	0.000900	0.361
L2187638-5	WQ9	Surface		10/24/2018	<0.00010	<0.000050	<0.010	<0.0000050	20.6	0.000150	<0.00010	<0.00050	0.139
L2203408-4	WQ9	Surface		11/27/2018	<0.00010	<0.000050	<0.010	<0.0000050	17.9	0.000160	<0.00010	0.000830	0.130
L2213684-3	WQ9	Surface		12/19/2018	<0.00010	<0.000050	<0.010	<0.0000050	19.1	0.000170	<0.00010	<0.00050	0.0980
L2227101-3	WQ9	Surface		1/29/2019	<0.00010	<0.000050	<0.010	<0.0000050	19.9	0.000110	<0.00010	<0.00050	<0.20
L2233329-3	WQ9	Surface		2/13/2019	<0.00010	<0.000050	<0.010	<0.0000050	20.2	0.000140	<0.00010	<0.00050	0.0800
L2245144-3	WQ9	Surface		3/14/2019	<0.00010	<0.000050	<0.010	<0.0000050	20.0	0.000390	<0.00010	0.00121	0.220
L2256054-3	WQ9	Surface		4/9/2019	<0.00010	<0.000050	<0.010	<0.0000050	17.8	0.000230	<0.00010	0.000590	0.218
L2274397-4	WQ9	Surface		5/14/2019	<0.00010	<0.000050	<0.010	<0.0000050	16.4	0.000210	<0.00010	0.000550	0.164
L2286702-3	WQ9	Surface		6/4/2019	<0.00010	<0.000050	<0.010	<0.0000050	16.8	<0.00050	<0.00010	<0.00050	0.102
L2313851-4	WQ9	Surface		7/18/2019	<0.00010	<0.000050	<0.010	<0.0000050	16.8	0.000140	<0.00010	0.000530	0.125
L2325935-3	WQ9	Surface		8/7/2019	<0.00010	<0.000050	<0.010	<0.0000050	16.7	0.000110	<0.00010	0.000510	0.134
L2349445-3	WQ9	Surface		9/16/2019	<0.00010	<0.000050	<0.010	<0.0000050	17.4	0.000150	<0.00010	0.000520	0.147
L2371052-3	WQ9	Surface		10/22/2019	<0.00010	<0.000050	<0.010	<0.0000050	16.5	0.000170	<0.00010	0.000650	0.155
L2388381-3	WQ9	Surface		11/25/2019	<0.00010	<0.000050	<0.010	<0.0000050	16.7	0.000150	<0.00010	<0.00050	0.151
VA19A0791-003	WQ9	Surface		12/17/2019	<0.000020	<0.000050	<0.010	<0.0000050	19.2	0.000120	<0.00010	<0.00050	0.110
VA20A0960-005	WQ9	Surface	Dup	1/27/2020	<0.000020	<0.000050	<0.010	<0.0000050	19.2	<0.00010	<0.00010	<0.00050	0.100
VA20A0960-003	WQ9	Surface		1/27/2020	<0.000020	<0.000050	<0.010	<0.0000050	19.1	0.000120	<0.00010	<0.00050	0.106
VA20A2211-003	WQ9	Surface		2/20/2020	<0.000020	<0.000050	<0.010	<0.0000050	20.0	0.000100	<0.00010	<0.00050	0.101
VA20A3691-004	WQ9	Surface		3/18/2020	<0.000020	<0.000050	<0.010	<0.0000050	19.8	0.000170	<0.00010	<0.00050	0.207
VA20A4555-004	WQ9	Surface		4/7/2020	<0.000020	<0.000050	<0.010	<0.0000050	21.9	0.000340	<0.00010	0.000520	0.287

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Beryllium (Be)-Total	Bismuth (Bi)-Total	Boron (B)-Total	Cadmium (Cd)-Total	Calcium (Ca)-Total	Chromium (Cr)-Total	Cobalt (Co)-Total	Copper (Cu)-Total	Iron (Fe)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
VA20A6218-005	WQ9	Surface	Dup	5/7/2020	<0.000020	<0.000050	<0.010	<0.0000050	16.1	0.000110	<0.00010	<0.00050	0.0540
VA20A6218-003	WQ9	Surface		5/7/2020	<0.000020	<0.000050	<0.010	<0.0000050	16.1	0.000190	<0.00010	0.000530	0.113
VA20A6503-004	WQ9	Surface		5/13/2020	<0.000020	<0.000050	<0.010	<0.0000050	15.3	0.000210	<0.00010	0.000520	0.127
VA20A6869-006	WQ9	Surface	Dup	5/20/2020	<0.000020	<0.000050	<0.010	<0.0000050	13.8	0.000240	<0.00010	0.000520	0.130
VA20A6869-002	WQ9	Surface		5/20/2020	<0.000020	<0.000050	<0.010	<0.0000050	14.0	0.000190	<0.00010	0.000570	0.138
VA20A7367-002	WQ9	Surface		5/28/2020	<0.000020	<0.000050	<0.010	<0.0000050	15.9	0.000170	<0.00010	0.000850	0.144
VA20A7672-003	WQ9	Surface		6/2/2020	<0.000020	<0.000050	<0.010	<0.0000050	16.2	0.000130	<0.00010	<0.00050	0.0710
VA20A9918-002	WQ9	Surface		7/6/2020	<0.000020	<0.000050	<0.010	<0.0000050	16.7	0.000150	<0.00010	0.000570	0.134
VA20B2156-006	WQ9	Surface		8/5/2020	<0.000020	<0.000050	<0.010	<0.0000050	17.9	0.000150	<0.00010	<0.00050	0.0980
VA20B2426-001	WQ9	Surface		8/10/2020	<0.000020	<0.000050	<0.010	<0.0000050	17.9	0.000130	<0.00010	<0.00050	0.121
VA20B3033-005	WQ9	Surface	Dup	8/17/2020	<0.000020	<0.000050	<0.010	<0.0000050	18.8	0.000140	<0.00010	<0.00050	0.150
VA20B3033-003	WQ9	Surface		8/17/2020	<0.000020	<0.000050	<0.010	<0.0000050	18.8	0.000120	<0.00010	0.000500	0.150
VA20B3609-003	WQ9	Surface		8/24/2020	<0.000020	<0.000050	<0.010	<0.0000050	17.1	<0.00010	<0.00010	<0.00050	0.172
VA20B4443-005	WQ9	Surface		9/2/2020	<0.000020	<0.000050	<0.010	<0.0000050	17.1	0.000130	<0.00010	<0.00050	0.191
VA20B7624-003	WQ9	Surface		10/6/2020	<0.000020	<0.000050	<0.010	<0.0000050	17.9	<0.00010	<0.00010	0.000610	0.164
VA20C0298-003	WQ9	Surface		11/5/2020	<0.000020	<0.000050	<0.010	<0.0000050	13.9	0.000310	<0.00010	0.000730	0.280

Notes:

"-" indicates parameter was not analyzed.

"<" value is below the detection limit

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Lead (Pb)-Total	Lithium (Li)-Total	Magnesium (Mg)-Total	Manganese (Mn)-Total	Mercury (Hg)-Total	Molybdenum (Mo)-Total	Nickel (Ni)-Total	Phosphorus (P)-Total	Potassium (K)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1989016-1	BI-09	Surface		9/7/2017	<0.000050	<0.0010	2.43	0.00273	0.00000500	0.000510	<0.00050	<0.30	0.431
L2049224-4	BI-09	Surface		1/23/2018	<0.000050	<0.0010	1.43	0.00284	<0.0000050	0.000560	<0.00050	<0.30	0.254
L2062480-1	BI-09	Surface		2/27/2018	<0.000050	<0.0010	1.53	0.00233	<0.0000050	0.000537	<0.00050	<0.30	0.239
L2073898-1	BI-09	Surface		3/27/2018	<0.000050	<0.0010	1.49	0.00162	<0.0000050	0.000539	<0.00050	<0.30	0.235
L2081505-2	BI-09	Surface	Dup	4/16/2018	<0.000050	<0.0010	1.54	0.00367	<0.0000050	0.000453	<0.00050	<0.30	0.327
L2081505-1	BI-09	Surface		4/16/2018	<0.000050	<0.0010	1.56	0.00404	<0.0000050	0.000402	<0.00050	<0.30	0.286
L2096380-2	BI-09	Surface		5/15/2018	<0.000050	<0.0010	0.776	0.00523	0.00000820	0.000267	<0.00050	<0.30	0.248
L2102737-3	BI-09	Surface		5/28/2018	<0.000050	<0.0010	1.05	0.00675	0.00000710	0.000305	<0.00050	<0.30	0.246
L2132128-4	BI-09	Surface		7/17/2018	<0.000050	<0.0010	1.34	0.00468	0.00000790	0.000524	<0.00050	<0.30	0.282
L2144658-1	BI-09	Surface		8/8/2018	<0.000050	<0.0010	1.62	0.00375	<0.0000050	0.000557	<0.00050	<0.30	0.330
L2163669-1	BI-09	Surface		9/11/2018	<0.000050	<0.0010	1.83	0.00120	<0.0000050	0.000556	<0.00050	<0.30	0.336
L2187638-1	BI-09	Surface		10/24/2018	<0.000050	<0.0010	1.52	0.00165	0.00000520	0.000467	<0.00050	<0.30	0.270
L2204086-3	BI-09	Surface		11/28/2018	<0.000050	<0.0010	1.16	0.00472	0.00000650	0.000368	<0.00050	<0.30	0.252
L2213684-5	BI-09	Surface		12/19/2018	<0.000050	<0.0010	1.40	0.00130	0.00000950	0.000480	<0.00050	<0.30	0.262
L2227101-5	BI-09	Surface		1/29/2019	<0.000050	<0.0010	1.57	0.00185	<0.0000050	0.000512	<0.00050	<0.30	0.276
L2233329-6	BI-09	Surface	Dup	2/13/2019	<0.000050	<0.0010	1.68	0.00174	<0.0000050	0.000478	<0.00050	<0.30	0.287
L2233329-4	BI-09	Surface		2/13/2019	<0.000050	<0.0010	1.61	0.00179	<0.0000050	0.000512	<0.00050	<0.30	0.283
L2245144-5	BI-09	Surface		3/14/2019	<0.000050	<0.0010	1.65	0.00531	<0.0000050	0.000544	<0.00050	<0.30	0.302
L2256054-5	BI-09	Surface		4/9/2019	<0.000050	<0.0010	1.35	0.00786	0.00000920	0.000237	<0.00050	<0.30	0.515
L2282191-3	BI-09	Surface		5/28/2019	<0.000050	<0.0010	0.856	0.00494	0.00000640	0.000243	<0.00050	<0.30	0.197
L2285579-1	BI-09	Surface		6/3/2019	<0.000050	<0.0010	1.17	0.00408	0.00000740	0.000336	<0.00050	<0.30	0.252
L2313851-5	BI-09	Surface	Dup	7/18/2019	0.0000720	<0.0010	1.10	0.00976	0.00000690	0.000344	<0.00050	<0.30	0.225
L2313851-1	BI-09	Surface		7/18/2019	0.000102	<0.0010	1.12	0.0235	0.00000620	0.000346	<0.00050	<0.30	0.238
L2329543-3	BI-09	Surface		8/13/2019	<0.000050	<0.0010	1.28	0.00803	0.00000510	0.000345	<0.00050	<0.30	0.216
L2350223-4	BI-09	Surface		9/17/2019	<0.000050	<0.0010	1.44	0.00437	0.00000670	0.000436	<0.00050	<0.30	0.244
L2371052-5	BI-09	Surface		10/22/2019	<0.000050	<0.0010	1.18	0.00533	<0.0000050	0.000319	<0.00050	<0.30	0.227
L2378996-1	BI-09	Surface		11/5/2019	<0.000050	<0.0010	1.18	0.00466	0.00000720	0.000309	<0.00050	<0.30	0.206
VA19A0726-005	BI-09	Surface		12/16/2019	<0.000050	<0.0010	1.42	0.00364	<0.0000050	0.000406	<0.00050	<0.050	0.228
VA20A2126-001	BI-09	Surface		2/19/2020	<0.000050	<0.0010	1.68	0.00238	<0.0000050	0.00129	<0.00050	<0.050	0.264
VA20A7202-005	BI-09	Surface	Dup	5/26/2020	<0.000050	<0.0010	0.642	0.00364	0.00000720	0.000218	<0.00050	<0.050	0.208
VA20A7202-002	BI-09	Surface		5/26/2020	<0.000050	<0.0010	0.805	0.00204	0.00000680	0.000284	<0.00050	<0.050	0.157
VA20B2212-001	BI-09	Surface		8/6/2020	0.0000820	<0.0010	1.39	0.0276	<0.0000050	0.000427	<0.00050	<0.050	0.296
VA20C0197-002	BI-09	Surface		11/4/2020	0.0000510	<0.0010	1.11	0.0111	<0.0000050	0.000249	<0.00050	<0.050	0.280
L1989016-2	BI-12	Surface		9/7/2017	<0.000050	<0.0010	1.57	0.00921	0.00000600	0.000735	<0.00050	<0.30	0.398
L1762266-1	BI-13	Surface		4/27/2016	0.0000560	<0.0010	0.512	0.00143	0.00000500	0.000227	<0.00050	<0.30	0.286
L1764648-4	BI-13	Surface		5/3/2016	0.0000590	<0.0010	0.445	0.00159	0.00000500	0.000167	<0.00050	<0.30	0.212
L1767107-1	BI-13	Surface		5/9/2016	<0.000050	<0.0010	0.509	0.000860	0.00000500	0.000229	<0.00050	<0.30	0.203
L1770672-2	BI-13	Surface		5/16/2016	<0.000050	<0.0010	0.553	0.000940	<0.0000050	0.000281	<0.00050	<0.30	0.220
L1774541-4	BI-13	Surface	Dup	5/25/2016	<0.000050	<0.0010	0.629	0.000670	<0.0000050	0.000269	<0.00050	<0.30	0.229
L1774541-6	BI-13	Surface		5/25/2016	<0.000050	<0.0010	0.630	0.000650	<0.0000050	0.000280	<0.00050	<0.30	0.225
L1788643-4	BI-13	Surface		6/22/2016	<0.000050	<0.0010	0.469	0.00109	<0.0000050	0.000186	<0.00050	<0.30	0.193
L1808945-4	BI-13	Surface		8/3/2016	<0.000050	<0.0010	0.840	0.000770	<0.0000050	0.000422	<0.00050	<0.30	0.358
L1812856-4	BI-13	Surface	Dup	8/10/2016	<0.000050	<0.0010	0.831	0.000550	<0.0000050	0.000346	<0.00050	<0.30	0.345
L1812856-6	BI-13	Surface		8/10/2016	<0.000050	<0.0010	0.733	0.000480	<0.0000050	0.000331	<0.00050	<0.30	0.327

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Lead (Pb)-Total	Lithium (Li)-Total	Magnesium (Mg)-Total	Manganese (Mn)-Total	Mercury (Hg)-Total	Molybdenum (Mo)-Total	Nickel (Ni)-Total	Phosphorus (P)-Total	Potassium (K)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1815654-4	BI-13	Surface		8/16/2016	<0.000050	<0.0010	0.960	0.000390	<0.0000050	0.000418	<0.00050	<0.30	0.377
L1819041-7	BI-13	Surface		8/23/2016	<0.000050	<0.0010	0.745	0.00108	0.0000170	0.000284	<0.00050	<0.30	0.303
L1823224-7	BI-13	Surface		8/31/2016	<0.000050	<0.0010	0.815	0.000460	<0.0000050	0.000343	<0.00050	<0.30	0.321
L1826303-1	BI-13	Surface		9/7/2016	<0.000050	<0.0010	0.568	0.000980	<0.0000050	0.000286	<0.00050	<0.30	0.229
L1988832-6	BI-13	Surface		9/9/2017	<0.000050	<0.0010	1.30	0.000260	0.00000700	0.000656	<0.00050	<0.30	0.432
	WQ1	Surface		5/17/2011	< 0.00005	< 0.001	0.650	0.0344	0.0000170	0.0000500	0.000560	0.0400	0.700
	WQ1	Surface		5/24/2011	< 0.00005	< 0.001	0.540	0.0183	0.0000150	< 0.00005	0.000460	< 0.02	< 0.5
	WQ1	Surface		5/30/2011	< 0.00005	< 0.001	< 0.50	0.0237	0.00000900	0.0000600	0.000390	< 0.02	< 0.5
	WQ1	Surface	Dup	6/6/2011	< 0.00005	< 0.001	< 0.50	0.0111	< 0.000008	0.0000800	0.000280	< 0.02	< 0.5
	WQ1	Surface		6/6/2011	< 0.00005	< 0.001	< 0.50	0.0113	< 0.000008	0.0000900	0.000280	< 0.02	< 0.5
	WQ1	Surface		6/13/2011	< 0.00005	< 0.001	< 0.50	0.00467	< 0.000008	0.0000800	0.000270	< 0.02	< 0.5
	WQ1	Surface		7/18/2011	0.000350	< 0.001	< 0.50	0.00525	< 0.000008	0.0000800	0.000350	< 0.02	< 0.5
	WQ1	Surface		8/15/2011	0.0000700	< 0.001	< 0.50	0.0102	< 0.000008	0.000160	0.000190	< 0.02	< 0.5
	WQ1	Surface		9/19/2011	< 0.00005	< 0.001	0.530	0.0153	< 0.000008	0.000220	< 0.00005	< 0.02	< 0.5
	WQ1	Surface		10/17/2011	< 0.00005	< 0.001	< 0.50	0.0117	< 0.000008	0.000160	0.000130	< 0.02	< 0.5
	WQ1	Surface		11/14/2011	0.000170	< 0.001	0.560	0.0193	< 0.000008	0.000250	0.000260	< 0.02	< 0.5
	WQ1	Surface		5/15/2012	0.000450	< 0.001	0.690	0.0190	< 0.000005	0.0000500	0.000420	0.0200	< 0.5
	WQ1	Surface		5/23/2012	0.0000600	< 0.001	0.590	0.0115	< 0.000005	0.0000600	0.000220	< 0.02	< 0.5
	WQ1	Surface		5/28/2012	0.0000900	< 0.001	< 0.50	0.0110	< 0.000005	0.0000700	< 0.00005	< 0.02	< 0.5
	WQ1	Surface		6/4/2012	< 0.00005	< 0.001	< 0.50	0.00700	< 0.000005	0.0000800	0.000250	< 0.02	< 0.5
	WQ1	Surface		6/11/2012	< 0.00005	< 0.001	< 0.50	0.00770	< 0.000005	0.0000500	0.000240	< 0.02	< 0.5
	WQ1	Surface		6/18/2012	< 0.00005	< 0.001	< 0.50	0.00500	< 0.000005	0.000370	0.000340	< 0.02	< 0.5
	WQ1	Surface		7/16/2012	< 0.00005	< 0.001	< 0.50	0.00850	< 0.000005	0.000340	0.000240	< 0.02	< 0.5
	WQ1	Surface		8/13/2012	0.000210	< 0.001	0.820	0.0211	< 0.000005	0.000330	0.000680	0.0500	< 0.5
	WQ1	Surface		9/17/2012	< 0.00005	< 0.001	0.650	0.0138	< 0.000005	0.000240	0.000330	< 0.02	< 0.5
	WQ1	Surface		10/16/2012	< 0.00005	< 0.001	0.660	0.0177	< 0.000005	0.000250	0.000220	< 0.02	< 0.5
	WQ1	Surface		11/12/2012	< 0.00005	< 0.001	0.670	0.0116	< 0.000005	0.000140	0.000210	< 0.02	< 0.5
	WQ1	Surface		12/10/2012	< 0.00005	< 0.001	0.760	0.0205	< 0.000005	0.000200	0.000190	< 0.02	< 0.5
	WQ1	Surface		5/14/2013	0.0000700	< 0.001	< 0.50	0.0101	0.00000500	0.0000800	0.000280	0.0100	< 0.5
	WQ1	Surface	Dup	5/21/2013	< 0.00005	< 0.001	< 0.50	0.00491	< 0.000005	0.0000900	0.000270	0.0100	< 0.5
	WQ1	Surface		5/21/2013	< 0.00005	< 0.001	< 0.50	0.00537	< 0.000005	0.0000800	0.000290	0.0200	< 0.5
	WQ1	Surface		5/28/2013	< 0.00005	< 0.001	< 0.50	0.00538	< 0.000005	0.000100	0.0000900	< 0.01	< 0.5
	WQ1	Surface		6/4/2013	0.0000600	< 0.001	< 0.50	0.00463	< 0.000005	0.000100	0.000220	0.0100	< 0.5
	WQ1	Surface		6/11/2013	< 0.00005	< 0.001	< 0.50	0.00434	< 0.000005	0.000100	0.000200	< 0.01	< 0.5
	WQ1	Surface		6/18/2013	< 0.00005	< 0.001	< 0.50	0.00447	< 0.000005	0.0000800	0.000180	< 0.01	< 0.5
VA20A2211-005	WQ1	Surface	Dup	2/20/2020	<0.000050	<0.0010	0.730	0.0168	<0.0000050	0.000434	<0.00050	<0.050	0.286
VA20A2211-001	WQ1	Surface		2/20/2020	<0.000050	<0.0010	0.746	0.0159	<0.0000050	0.000214	<0.00050	<0.050	0.285
VA20A6810-001	WQ1	Surface		5/19/2020	0.000126	<0.0010	0.366	0.0128	0.00000680	0.000160	<0.00050	<0.050	0.220
VA20B2212-002	WQ1	Surface		8/6/2020	<0.000050	<0.0010	0.561	0.0230	0.00000630	0.000178	<0.00050	<0.050	0.187
VA20C1415-001	WQ1	Surface		11/19/2020	<0.000050	<0.0010	0.419	0.00967	0.00000560	0.000135	<0.00050	<0.050	0.134
	WQ10	Surface		3/30/2011	< 0.00005	< 0.005	2.76	0.00153	0.0000100	0.000880	0.000100	< 0.02	< 0.5
	WQ10	Surface		4/19/2011	< 0.00005	< 0.005	2.90	0.00151	< 0.000008	0.000950	0.000130	< 0.02	< 0.5
	WQ10	Surface		5/17/2011	0.000440	< 0.001	0.880	0.0446	0.0000170	0.000160	0.000620	0.0400	0.700
	WQ10	Surface		5/25/2011	0.000150	< 0.001	0.740	0.0153	0.0000100	0.000120	0.000450	< 0.02	< 0.5

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					Lead (Pb)-Total	Lithium (Li)-Total	Magnesium (Mg)-Total	Manganese (Mn)-Total	Mercury (Hg)-Total	Molybdenum (Mo)-Total	Nickel (Ni)-Total	Phosphorus (P)-Total	Potassium (K)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ10	Surface		5/31/2011	0.000110	< 0.001	0.630	0.0135	< 0.000008	0.000150	0.000420	< 0.02	< 0.5
	WQ10	Surface		6/7/2011	0.0000800	< 0.001	0.540	0.0123	< 0.000008	0.000160	0.000300	< 0.02	< 0.5
	WQ10	Surface		6/14/2011	< 0.00005	< 0.001	0.600	0.00595	< 0.000008	0.000170	0.000250	< 0.02	< 0.5
	WQ10	Surface		7/19/2011	< 0.00005	< 0.001	0.840	0.00598	< 0.000008	0.000220	0.000260	< 0.02	< 0.5
	WQ10	Surface		8/16/2011	< 0.00005	< 0.001	1.43	0.00619	< 0.000008	0.000430	0.000160	< 0.02	< 0.5
	WQ10	Surface		9/20/2011	< 0.00005	< 0.001	2.40	0.00305	< 0.000008	0.000720	< 0.00005	< 0.02	< 0.5
	WQ10	Surface		10/18/2011	< 0.00005	< 0.001	1.71	0.00279	< 0.000008	0.000430	< 0.00005	< 0.02	< 0.5
	WQ10	Surface		11/15/2011	< 0.00005	< 0.001	1.97	0.00299	< 0.000008	0.000580	0.000130	< 0.02	< 0.5
	WQ10	Surface		12/12/2011	< 0.00005	< 0.001	2.46	0.00253	< 0.000008	0.000700	< 0.00005	< 0.02	< 0.5
	WQ10	Surface		1/12/2012	< 0.00005	< 0.001	2.60	0.00353	< 0.000008	0.000730	< 0.00005	< 0.02	< 0.5
	WQ10	Surface		2/13/2012	< 0.00005	< 0.001	2.71	< 0.00005	< 0.000008	0.000800	0.0000700	< 0.02	< 0.5
	WQ10	Surface		3/12/2012	< 0.00005	< 0.001	2.91	0.00150	< 0.000008	0.000880	< 0.00005	< 0.02	< 0.5
	WQ10	Surface		4/16/2012	0.0000700	< 0.001	2.64	0.00366	< 0.000008	0.000700	0.000120	< 0.02	0.500
	WQ10	Surface		5/14/2012	0.000120	< 0.001	0.820	0.0173	< 0.000005	0.000140	0.000380	< 0.02	< 0.5
	WQ10	Surface		5/22/2012	0.0000800	< 0.001	0.820	0.00836	< 0.000005	0.000160	0.000290	< 0.02	< 0.5
	WQ10	Surface		5/29/2012	< 0.00005	< 0.001	0.710	0.00450	< 0.000005	0.000150	< 0.00005	< 0.02	< 0.5
	WQ10	Surface		6/5/2012	< 0.00005	< 0.001	0.680	0.00632	< 0.000005	0.000180	0.000230	< 0.02	< 0.5
	WQ10	Surface		6/12/2012	< 0.00005	< 0.001	0.580	0.0108	< 0.000005	0.000190	0.000250	< 0.02	< 0.5
	WQ10	Surface		6/19/2012	< 0.00005	< 0.001	0.680	0.00520	< 0.000005	0.000240	< 0.00005	< 0.02	< 0.5
	WQ10	Surface		7/17/2012	< 0.00005	< 0.001	1.33	0.00413	< 0.000005	0.000430	0.000130	< 0.02	< 0.5
	WQ10	Surface		8/14/2012	< 0.00005	< 0.001	1.85	0.00513	< 0.000005	0.000530	0.000220	< 0.02	< 0.5
	WQ10	Surface		9/18/2012	0.000130	< 0.001	2.46	0.00481	< 0.000005	0.000740	0.000120	< 0.02	< 0.5
	WQ10	Surface		10/15/2012	< 0.00005	< 0.001	2.61	0.00298	< 0.000005	0.000780	< 0.00005	< 0.02	< 0.5
	WQ10	Surface		11/13/2012	0.000190	< 0.001	2.61	0.00265	< 0.000005	0.000660	0.000110	< 0.02	< 0.5
	WQ10	Surface		1/13/2013	< 0.00005	< 0.001	3.25	0.00248	< 0.000005	0.000850	< 0.00005	< 0.02	0.500
	WQ10	Surface		2/12/2013	< 0.00005	< 0.001	3.06	0.00179	< 0.000005	0.000820	< 0.00005	< 0.02	0.500
	WQ10	Surface		3/11/2013	< 0.00005	< 0.001	3.21	0.00170	< 0.000005	0.000920	0.0000900	< 0.01	0.500
	WQ10	Surface		4/15/2013	< 0.00005	< 0.001	2.25	0.00299	< 0.000005	0.000690	0.000150	< 0.01	< 0.5
	WQ10	Surface		5/13/2013	0.0000800	< 0.001	0.730	0.0131	0.0000100	0.000140	0.000310	0.0200	< 0.5
	WQ10	Surface		5/22/2013	< 0.00005	< 0.001	0.740	0.00623	< 0.000005	0.000180	0.000270	< 0.01	< 0.5
	WQ10	Surface		5/27/2013	0.0000600	< 0.001	0.770	0.00797	< 0.000005	0.000170	0.000120	< 0.01	< 0.5
	WQ10	Surface		6/6/2013	0.0000600	< 0.001	0.710	0.00571	< 0.000005	0.000180	0.000220	0.0100	< 0.5
	WQ10	Surface		6/10/2013	< 0.00005	< 0.001	0.790	0.00530	< 0.000005	0.000240	0.000190	0.0200	< 0.5
	WQ10	Surface		6/17/2013	< 0.00005	< 0.001	0.790	0.00494	< 0.000005	0.000250	0.000170	0.0100	< 0.5
	WQ10	Surface		4/13/2014	< 0.00005	< 0.001	2.53	0.00203	< 0.000005	0.000740	0.000190	< 0.01	< 0.5
	WQ10	Surface		7/2/2014	< 0.00005	< 0.001	1.43	0.00399	< 0.000005	0.000250	< 0.00005	< 0.01	< 0.5
	WQ10	Surface	Dup	9/24/2014	< 0.00005	< 0.001	3.45	0.00430	< 0.000005	0.000960	0.000110	< 0.01	0.700
	WQ10	Surface		9/24/2014	< 0.00005	< 0.001	3.46	0.00361	< 0.000005	0.000960	0.000110	< 0.01	0.700
	WQ10	Surface		12/8/2014	< 0.00005	< 0.001	2.80	0.00223	< 0.000005	0.000820	0.0000800	0.0100	< 0.5
L1913006-3	WQ10	Surface		4/11/2017	< 0.000050	< 0.0010	2.33	0.00301	< 0.0000050	0.000778	< 0.00050	< 0.30	0.448
L1925486-1	WQ10	Surface		5/10/2017	0.0000580	< 0.0010	0.928	0.0125	0.00000800	0.000215	< 0.00050	< 0.30	0.490
L1939712-10	WQ10	Surface		6/7/2017	< 0.000050	< 0.0010	0.769	0.00651	0.00000800	0.000253	< 0.00050	< 0.30	0.292
L1961670-2	WQ10	Surface		7/18/2017	< 0.000050	< 0.0010	1.73	0.00466	< 0.0000050	0.000617	< 0.00050	< 0.30	0.360
L1984944-10	WQ10	Surface	Dup	8/30/2017	< 0.000050	< 0.0010	3.14	0.00452	< 0.0000050	0.00105	< 0.00050	< 0.30	0.550

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					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1984944-1	WQ10	Surface		8/30/2017	<0.000050	<0.0010	3.25	0.00416	<0.0000050	0.00109	<0.00050	<0.30	0.551
L1988832-1	WQ10	Surface		9/8/2017	<0.000050	<0.0010	2.92	0.00521	<0.0000050	0.000885	<0.00050	<0.30	0.531
L2011329-2	WQ10	Surface		10/19/2017	<0.000050	<0.0010	1.47	0.00842	<0.0000050	0.000411	<0.00050	<0.30	0.403
L2020946-1	WQ10	Surface		11/8/2017	<0.000050	<0.0010	1.33	0.0109	0.00000500	0.000413	<0.00050	<0.30	0.289
L2035356-4	WQ10	Surface		12/12/2017	<0.000050	<0.0010	1.60	0.00400	<0.0000050	0.000558	<0.00050	<0.30	0.336
L2049678-2	WQ10	Surface		1/24/2018	<0.000050	<0.0010	2.22	0.00326	<0.0000050	0.000729	<0.00050	<0.30	0.410
L2057025-2	WQ10	Surface		2/13/2018	0.000247	<0.0010	2.21	0.00364	<0.0000050	0.000743	<0.00050	<0.30	0.405
L2074294-8	WQ10	Surface	Dup	3/28/2018	<0.000050	<0.0010	2.46	0.00243	<0.0000050	0.000781	<0.00050	<0.30	0.397
L2074294-3	WQ10	Surface		3/28/2018	<0.000050	<0.0010	2.47	0.00257	<0.0000050	0.000821	<0.00050	<0.30	0.400
L2081503-4	WQ10	Surface		4/17/2018	<0.000050	<0.0010	2.51	0.00270	<0.0000050	0.000767	<0.00050	<0.30	0.432
L2097084-3	WQ10	Surface		5/16/2018	0.000130	<0.0010	0.553	0.0199	0.00000850	0.000205	<0.00050	<0.30	0.290
L2103632-3	WQ10	Surface		5/29/2018	<0.000050	<0.0010	0.746	0.00585	0.00000620	0.000240	<0.00050	<0.30	0.223
L2132986-2	WQ10	Surface		7/18/2018	<0.000050	<0.0010	1.76	0.00458	<0.0000050	0.000639	<0.00050	<0.30	0.383
L2143640-6	WQ10	Surface		8/7/2018	<0.000050	<0.0010	1.97	0.00510	<0.0000050	0.000667	<0.00050	<0.30	0.449
L2163669-2	WQ10	Surface		9/11/2018	<0.000050	<0.0010	2.42	0.00396	<0.0000050	0.000729	<0.00050	<0.30	0.474
L2188218-1	WQ10	Surface		10/26/2018	<0.000050	<0.0010	1.82	0.00300	<0.0000050	0.000533	<0.00050	<0.30	0.368
L2204508-3	WQ10	Surface		11/29/2018	<0.000050	<0.0010	1.35	0.00366	<0.0000050	0.000404	<0.00050	<0.30	0.321
L2213246-1	WQ10	Surface		12/18/2018	<0.000050	<0.0010	1.65	0.00429	<0.0000050	0.000638	<0.00050	<0.30	0.342
L2227701-1	WQ10	Surface		1/30/2019	<0.000050	<0.0010	2.07	0.00241	<0.0000050	0.000667	<0.00050	<0.30	0.394
L2232050-6	WQ10	Surface		2/11/2019	<0.000050	<0.0010	2.28	0.00211	<0.0000050	0.000783	<0.00050	<0.30	0.413
L2244756-1	WQ10	Surface		3/13/2019	<0.000050	<0.0010	2.73	0.00175	<0.0000050	0.000862	<0.00050	<0.30	0.435
L2256053-5	WQ10	Surface	Dup	4/8/2019	<0.000050	<0.0010	2.01	0.00396	<0.0000050	0.000618	<0.00050	<0.30	0.447
L2256053-1	WQ10	Surface		4/8/2019	<0.000050	<0.0010	1.95	0.00394	<0.0000050	0.000616	<0.00050	<0.30	0.448
L2273497-1	WQ10	Surface		5/13/2019	<0.000050	<0.0010	0.721	0.0104	0.0000103	0.000194	<0.00050	<0.30	0.335
L2285579-6	WQ10	Surface		6/3/2019	<0.000050	<0.0010	0.874	0.00567	0.00000880	0.000245	<0.00050	<0.30	0.290
L2312637-1	WQ10	Surface		7/16/2019	<0.000050	<0.0010	1.03	0.00699	0.00000780	0.000310	<0.00050	<0.30	0.253
L2326388-1	WQ10	Surface		8/8/2019	<0.000050	<0.0010	1.14	0.00974	0.00000530	0.000335	<0.00050	<0.30	0.314
L2350223-1	WQ10	Surface		9/17/2019	<0.000050	<0.0010	1.57	0.00477	<0.0000050	0.000494	<0.00050	<0.30	0.363
L2372667-1	WQ10	Surface		10/23/2019	<0.000050	<0.0010	1.17	0.00508	<0.0000050	0.000319	<0.00050	<0.30	0.313
L2383392-1	WQ10	Surface		11/14/2019	<0.000050	<0.0010	1.01	0.00741	<0.0000050	0.000349	<0.00050	<0.30	0.254
VA19A0726-004	WQ10	Surface		12/16/2019	<0.000050	<0.0010	1.38	0.00409	<0.0000050	0.000407	<0.00050	<0.050	0.303
VA20A0812-001	WQ10	Surface		1/23/2020	<0.000050	<0.0010	1.85	0.00327	<0.0000050	0.000536	<0.00050	<0.050	0.348
VA20A1887-001	WQ10	Surface		2/13/2020	<0.000050	<0.0010	2.06	0.00285	<0.0000050	0.000647	<0.00050	<0.050	0.377
VA20A3516-001	WQ10	Surface		3/16/2020	<0.000050	<0.0010	2.33	0.00277	<0.0000050	0.000750	<0.00050	<0.050	0.403
VA20A4369-001	WQ10	Surface		4/1/2020	<0.000050	<0.0010	2.44	0.00411	<0.0000050	0.00100	<0.00050	<0.050	0.421
VA20A6218-001	WQ10	Surface		5/7/2020	<0.000050	<0.0010	0.806	0.00859	0.00000740	0.000214	<0.00050	<0.050	0.346
VA20A6356-002	WQ10	Surface		5/11/2020	0.0000590	<0.0010	0.745	0.0113	0.00000620	0.000202	<0.00050	<0.050	0.338
VA20A6810-003	WQ10	Surface		5/19/2020	0.0000760	<0.0010	0.635	0.0104	0.00000510	0.000195	<0.00050	<0.050	0.267
VA20A7202-003	WQ10	Surface		5/26/2020	<0.000050	<0.0010	0.548	0.00276	0.00000700	0.000220	<0.00050	<0.050	0.161
VA20A7672-002	WQ10	Surface		6/2/2020	<0.000050	<0.0010	0.724	0.00437	0.00000540	0.000287	<0.00050	<0.050	0.228
VA20A9918-003	WQ10	Surface		7/6/2020	<0.000050	<0.0010	0.961	0.00552	0.00000540	0.000290	<0.00050	<0.050	0.254
VA20B2156-008	WQ10	Surface	Dup	8/5/2020	<0.000050	<0.0010	1.68	0.00606	<0.0000050	0.000593	<0.00050	<0.050	0.358
VA20B2156-001	WQ10	Surface		8/5/2020	<0.000050	<0.0010	1.73	0.00758	<0.0000050	0.000564	<0.00050	<0.050	0.367
VA20B2426-004	WQ10	Surface		8/10/2020	<0.000050	<0.0010	1.57	0.00653	<0.0000050	0.000548	<0.00050	<0.050	0.347

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Lead (Pb)-Total	Lithium (Li)-Total	Magnesium (Mg)-Total	Manganese (Mn)-Total	Mercury (Hg)-Total	Molybdenum (Mo)-Total	Nickel (Ni)-Total	Phosphorus (P)-Total	Potassium (K)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
VA20B3264-002	WQ10	Surface		8/19/2020	<0.000050	<0.0010	1.62	0.00562	<0.0000050	0.000565	<0.00050	<0.050	0.371
VA20B3609-001	WQ10	Surface		8/24/2020	<0.000050	<0.0010	1.60	0.00636	<0.0000050	0.000502	<0.00050	<0.050	0.351
VA20B4313-001	WQ10	Surface		9/1/2020	<0.000050	<0.0010	1.64	0.00552	<0.0000050	0.000538	<0.00050	<0.050	0.364
VA20B7624-004	WQ10	Surface		10/6/2020	<0.000050	<0.0010	1.77	0.00513	<0.0000050	0.000579	<0.00050	<0.050	0.420
VA20C0197-003	WQ10	Surface		11/4/2020	0.0000590	<0.0010	0.810	0.0124	0.00000960	0.000200	<0.00050	<0.050	0.279
	WQ11	Surface		3/30/2011	< 0.00005	< 0.005	4.11	0.00181	< 0.000008	0.000350	0.000300	< 0.02	0.500
	WQ11	Surface		4/19/2011	< 0.00005	< 0.005	3.12	0.00350	< 0.000008	0.000390	0.000150	< 0.02	< 0.5
	WQ11	Surface		5/17/2011	0.0000700	< 0.001	1.14	0.0107	0.0000190	< 0.00005	0.000500	0.0300	0.700
	WQ11	Surface		5/25/2011	< 0.00005	< 0.001	0.940	0.00816	0.0000140	< 0.00005	0.000410	0.0200	< 0.5
	WQ11	Surface		5/31/2011	< 0.00005	< 0.001	0.840	0.00529	0.00000900	0.0000600	0.000360	< 0.02	< 0.5
	WQ11	Surface		6/6/2011	0.000100	< 0.001	0.750	0.0205	< 0.000008	0.0000700	0.000400	0.0200	< 0.5
	WQ11	Surface		6/13/2011	< 0.00005	< 0.001	0.890	0.00319	0.0000240	0.0000700	0.000260	< 0.02	< 0.5
	WQ11	Surface		7/18/2011	< 0.00005	< 0.001	1.06	0.00455	0.0000140	0.0000800	0.000290	< 0.02	< 0.5
	WQ11	Surface		8/15/2011	< 0.00005	< 0.001	1.78	0.00317	< 0.000008	0.000150	0.000270	< 0.02	< 0.5
	WQ11	Surface		9/19/2011	< 0.00005	< 0.001	3.07	0.000610	< 0.000008	0.000250	< 0.00005	< 0.02	0.500
	WQ11	Surface		10/17/2011	< 0.00005	< 0.001	2.09	0.00219	< 0.000008	0.000130	0.0000900	< 0.02	< 0.5
	WQ11	Surface		11/14/2011	< 0.00005	< 0.001	2.41	0.00164	< 0.000008	0.000230	0.000150	< 0.02	< 0.5
	WQ11	Surface		12/12/2011	< 0.00005	< 0.001	3.21	0.00168	< 0.000008	0.000270	0.000120	< 0.02	0.500
	WQ11	Surface		5/15/2012	0.0000600	< 0.001	0.980	0.00428	< 0.000005	< 0.00005	0.000350	< 0.02	< 0.5
	WQ11	Surface		5/22/2012	0.000430	< 0.001	0.900	0.00366	< 0.000005	0.0000600	0.000230	< 0.02	< 0.5
	WQ11	Surface		5/28/2012	< 0.00005	< 0.001	0.780	0.00281	< 0.000005	0.0000500	< 0.00005	< 0.02	< 0.5
	WQ11	Surface		6/4/2012	< 0.00005	< 0.001	0.850	0.00247	0.00000900	0.0000600	0.000220	< 0.02	< 0.5
	WQ11	Surface		6/11/2012	< 0.00005	< 0.001	0.930	0.00188	< 0.000005	0.0000900	0.000240	< 0.02	< 0.5
	WQ11	Surface		6/18/2012	< 0.00005	< 0.001	1.03	0.00208	< 0.000005	0.0000700	0.000240	< 0.02	< 0.5
	WQ11	Surface		7/16/2012	< 0.00005	< 0.001	1.71	0.00203	< 0.000005	0.000190	0.000250	< 0.02	< 0.5
	WQ11	Surface		8/13/2012	< 0.00005	< 0.001	1.89	0.00226	< 0.000005	0.000170	0.000200	< 0.02	0.500
	WQ11	Surface		9/17/2012	< 0.00005	< 0.001	3.08	0.000860	< 0.000005	0.000260	0.000150	< 0.02	0.600
	WQ11	Surface		10/15/2012	< 0.00005	< 0.001	3.91	< 0.00005	< 0.000005	0.000380	< 0.00005	< 0.02	0.600
	WQ11	Surface		11/13/2012	< 0.00005	< 0.001	3.25	0.00134	< 0.000005	0.000260	0.000160	< 0.02	0.500
	WQ11	Surface		1/13/2013	< 0.00005	< 0.001	4.82	0.00127	< 0.000005	0.000310	< 0.00005	< 0.02	0.700
	WQ11	Surface		2/12/2013	< 0.00005	< 0.001	5.27	0.00129	< 0.000005	0.000360	< 0.00005	< 0.02	0.700
	WQ11	Surface		4/15/2013	0.0000600	< 0.001	2.04	0.00743	< 0.000005	0.000140	0.000340	0.0300	0.500
	WQ11	Surface		5/13/2013	< 0.00005	< 0.001	0.840	0.00461	0.0000150	0.0000700	0.000250	0.0100	< 0.5
	WQ11	Surface		5/22/2013	< 0.00005	< 0.001	0.870	0.00334	0.0160	0.0000800	0.000270	0.0100	< 0.5
	WQ11	Surface		5/27/2013	< 0.00005	< 0.001	1.00	0.00381	< 0.000005	0.0000800	0.000130	< 0.01	< 0.5
	WQ11	Surface		6/6/2013	< 0.00005	< 0.001	1.03	0.00305	< 0.000005	0.0000700	0.000270	0.0200	< 0.5
	WQ11	Surface		6/10/2013	< 0.00005	< 0.001	1.12	0.00314	< 0.000005	0.0000900	0.000250	< 0.01	< 0.5
	WQ11	Surface		6/17/2013	< 0.00005	< 0.001	1.10	0.00344	< 0.000005	0.0000700	0.000270	0.0200	< 0.5
L1762266-2	WQ11	Surface		4/27/2016	<0.000050	<0.0010	0.987	0.00325	0.0000170	0.000103	<0.00050	<0.30	0.374
L1764648-1	WQ11	Surface		5/3/2016	<0.000050	<0.0010	0.972	0.00266	0.0000160	0.000100	<0.00050	<0.30	0.334
L1767107-6	WQ11	Surface	Dup	5/9/2016	<0.000050	<0.0010	1.22	0.00264	0.0000150	0.000114	<0.00050	<0.30	0.351
L1767107-2	WQ11	Surface		5/9/2016	<0.000050	<0.0010	1.23	0.00276	0.0000160	0.000124	<0.00050	<0.30	0.355
L1770672-5	WQ11	Surface	Dup	5/16/2016	<0.000050	<0.0010	1.32	0.00188	0.0000150	0.000143	<0.00050	<0.30	0.392
L1770672-1	WQ11	Surface		5/16/2016	<0.000050	<0.0010	1.41	0.00205	0.0000170	0.000136	<0.00050	<0.30	0.417

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					Lead (Pb)-Total	Lithium (Li)-Total	Magnesium (Mg)-Total	Manganese (Mn)-Total	Mercury (Hg)-Total	Molybdenum (Mo)-Total	Nickel (Ni)-Total	Phosphorus (P)-Total	Potassium (K)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1774541-1	WQ11	Surface		5/25/2016	<0.000050	<0.0010	1.67	0.00166	0.00000800	0.000174	<0.00050	<0.30	0.434
L1788643-1	WQ11	Surface		6/22/2016	<0.000050	<0.0010	1.13	0.00311	0.00000900	0.0000880	<0.00050	<0.30	0.312
L1808945-1	WQ11	Surface		8/3/2016	<0.000050	<0.0010	1.87	0.00245	0.00000600	0.000134	<0.00050	<0.30	0.460
L1812856-1	WQ11	Surface		8/10/2016	<0.000050	<0.0010	1.75	0.00220	0.00000600	0.000188	<0.00050	<0.30	0.437
L1815654-1	WQ11	Surface		8/16/2016	<0.000050	<0.0010	2.15	0.00142	0.00000500	0.000165	<0.00050	<0.30	0.490
L1819041-6	WQ11	Surface		8/23/2016	<0.000050	<0.0010	2.02	0.00244	0.00000500	0.000201	<0.00050	<0.30	0.458
L1823224-4	WQ11	Surface		8/31/2016	<0.000050	<0.0010	2.15	0.00166	0.00000800	0.000221	<0.00050	<0.30	0.477
L1826303-3	WQ11	Surface		9/7/2016	<0.000050	<0.0010	1.72	0.00227	0.00000700	0.000184	<0.00050	<0.30	0.378
	WQ12	Surface		4/19/2011	< 0.00005	< 0.005	1.35	0.0107	< 0.000008	0.000620	< 0.00010	< 0.02	< 0.5
	WQ12	Surface		5/17/2011	0.000160	< 0.001	0.770	0.0280	0.0000120	0.000170	0.000340	0.0200	< 0.5
	WQ12	Surface		5/24/2011	0.0000500	< 0.001	0.740	0.00619	0.0000140	0.000230	0.000200	< 0.02	< 0.5
	WQ12	Surface		5/30/2011	< 0.00005	< 0.001	0.660	0.00405	< 0.000008	0.000280	0.000200	< 0.02	< 0.5
	WQ12	Surface		6/6/2011	< 0.00005	< 0.001	0.650	0.00538	< 0.000008	0.000280	0.000100	< 0.02	< 0.5
	WQ12	Surface		6/13/2011	< 0.00005	< 0.001	0.780	0.00827	< 0.000008	0.000380	0.000110	< 0.02	< 0.5
	WQ12	Surface		7/18/2011	0.000140	< 0.001	0.820	0.00905	< 0.000008	0.000370	0.000110	< 0.02	< 0.5
	WQ12	Surface		8/15/2011	< 0.00005	< 0.001	0.990	0.00849	< 0.000008	0.000460	0.000100	< 0.02	< 0.5
	WQ12	Surface		9/19/2011	0.0000700	< 0.001	1.16	0.00902	< 0.000008	0.000530	< 0.00005	< 0.02	< 0.5
	WQ12	Surface		10/17/2011	< 0.00005	< 0.001	1.02	0.0103	< 0.000008	0.000370	< 0.00005	< 0.02	< 0.5
	WQ12	Surface		11/14/2011	< 0.00005	< 0.001	1.01	0.0126	< 0.000008	0.000450	0.000110	< 0.02	< 0.5
	WQ12	Surface		12/12/2011	< 0.00005	< 0.001	1.26	0.0362	< 0.000008	0.000580	< 0.00005	< 0.02	< 0.5
	WQ12	Surface		1/12/2012	< 0.00005	< 0.001	1.24	0.0143	< 0.000008	0.000560	< 0.00005	< 0.02	< 0.5
	WQ12	Surface		2/13/2012	< 0.00005	< 0.001	1.27	0.0400	< 0.000008	0.000560	0.0000900	< 0.02	< 0.5
	WQ12	Surface	Dup	3/12/2012	< 0.00005	< 0.001	1.27	0.0424	< 0.000008	0.000650	0.000100	< 0.02	< 0.5
	WQ12	Surface		3/12/2012	0.0000600	< 0.001	1.31	0.144	< 0.000008	0.000690	0.000170	< 0.02	< 0.5
	WQ12	Surface		4/16/2012	0.000180	< 0.001	1.30	0.0277	< 0.000008	0.000360	0.000280	< 0.02	0.800
	WQ12	Surface		5/15/2012	0.0000900	< 0.001	0.710	0.0153	< 0.000005	0.000150	0.000220	< 0.02	< 0.5
	WQ12	Surface		5/22/2012	< 0.00005	< 0.001	0.710	0.00794	< 0.000005	0.000230	0.0000600	< 0.02	< 0.5
	WQ12	Surface		5/28/2012	< 0.00005	< 0.001	0.780	0.00651	< 0.000005	0.000260	< 0.00005	< 0.02	< 0.5
	WQ12	Surface		6/4/2012	< 0.00005	< 0.001	0.800	0.0101	< 0.000005	0.000420	0.0000700	< 0.02	< 0.5
	WQ12	Surface		6/11/2012	< 0.00005	< 0.001	0.790	0.0104	< 0.000005	0.000340	0.000110	< 0.02	< 0.5
	WQ12	Surface		6/18/2012	< 0.00005	< 0.001	0.790	0.0115	< 0.000005	0.000380	0.0000900	< 0.02	< 0.5
	WQ12	Surface		7/16/2012	< 0.00005	< 0.001	1.00	0.0103	< 0.000005	0.000550	0.000100	< 0.02	< 0.5
	WQ12	Surface		8/13/2012	< 0.00005	< 0.001	1.27	0.0131	< 0.000005	0.000690	0.000140	< 0.02	< 0.5
	WQ12	Surface		9/17/2012	< 0.00005	< 0.001	1.44	0.0200	< 0.000005	0.000510	0.000150	< 0.02	< 0.5
	WQ12	Surface		10/15/2012	< 0.00005	< 0.001	1.57	0.0100	< 0.000005	0.000530	0.0000500	< 0.02	< 0.5
	WQ12	Surface		11/13/2012	< 0.00005	< 0.001	1.29	0.0130	< 0.000005	0.000450	0.000130	< 0.02	< 0.5
	WQ12	Surface		1/13/2013	< 0.00005	< 0.001	1.26	0.0110	< 0.000005	0.000420	0.000100	< 0.02	< 0.5
	WQ12	Surface		2/12/2013	< 0.00005	< 0.001	1.29	0.0129	< 0.000005	0.000610	0.000450	< 0.02	< 0.5
	WQ12	Surface		3/11/2013	< 0.00005	< 0.001	1.35	0.0121	< 0.000005	0.000630	0.000100	< 0.01	< 0.5
	WQ12	Surface		4/15/2013	< 0.00005	< 0.001	1.05	0.0240	< 0.000005	0.000460	0.000140	0.0200	< 0.5
	WQ12	Surface		5/13/2013	< 0.00005	< 0.001	0.860	0.00886	< 0.000005	0.000330	0.000110	< 0.01	< 0.5
	WQ12	Surface		5/22/2013	< 0.00005	< 0.001	0.800	0.00730	< 0.000005	0.000330	0.000110	< 0.01	< 0.5
	WQ12	Surface		5/27/2013	< 0.00005	< 0.001	0.900	0.00839	< 0.000005	0.000350	< 0.00005	< 0.01	< 0.5
	WQ12	Surface		6/6/2013	< 0.00005	< 0.001	0.800	0.00623	< 0.000005	0.000340	0.0000800	0.0100	< 0.5

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					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ12	Surface		6/10/2013	< 0.00005	< 0.001	0.860	0.0109	< 0.000005	0.000420	0.000100	< 0.01	< 0.5
	WQ12	Surface		6/17/2013	< 0.00005	< 0.001	0.830	0.00989	< 0.000005	0.000370	0.0000700	0.0100	< 0.5
	WQ13	Surface		4/19/2011	< 0.00005	< 0.005	5.14	0.0528	< 0.000008	0.000700	0.000310	0.0200	1.00
	WQ13	Surface		5/17/2011	0.0000600	< 0.001	3.33	0.0181	< 0.000008	0.000430	0.000470	0.0300	1.00
	WQ13	Surface		5/24/2011	< 0.00005	< 0.001	3.35	0.0119	< 0.000008	0.000480	0.000450	0.0200	0.900
	WQ13	Surface		5/30/2011	< 0.00005	< 0.001	3.54	0.0115	< 0.000008	0.000540	0.000440	0.0300	0.900
	WQ13	Surface		6/6/2011	< 0.00005	< 0.001	3.40	0.0126	< 0.000008	0.000490	0.000330	< 0.02	0.700
	WQ13	Surface		6/13/2011	< 0.00005	< 0.001	3.54	0.0166	< 0.000008	0.000490	0.000310	< 0.02	0.700
	WQ13	Surface		7/18/2011	< 0.00005	< 0.001	3.48	0.0209	< 0.000008	0.000530	0.000320	< 0.02	0.700
	WQ13	Surface		8/15/2011	< 0.00005	< 0.001	4.15	0.0248	< 0.000008	0.000590	0.000270	< 0.02	0.700
	WQ13	Surface		9/19/2011	< 0.00005	< 0.001	4.42	0.0544	< 0.000008	0.000710	< 0.00005	< 0.02	0.700
	WQ13	Surface		10/17/2011	< 0.00005	< 0.001	4.13	0.0382	< 0.000008	0.000560	0.000160	< 0.02	0.700
	WQ13	Surface		11/14/2011	< 0.00005	< 0.001	4.45	0.0396	< 0.000008	0.000550	0.000330	< 0.02	0.700
	WQ13	Surface		12/13/2011	< 0.00005	< 0.001	4.71	0.0340	< 0.000008	0.000600	0.000240	< 0.02	0.800
	WQ13	Surface		1/12/2012	< 0.00005	< 0.001	4.98	0.0315	< 0.000008	0.000610	0.000220	< 0.02	0.900
	WQ13	Surface		2/13/2012	< 0.00005	< 0.001	4.74	0.0252	< 0.000008	0.000590	0.000220	< 0.02	0.800
	WQ13	Surface		3/12/2012	< 0.00005	< 0.001	5.59	0.0307	< 0.000008	0.000620	0.000320	0.0200	1.00
	WQ13	Surface		4/16/2012	< 0.00005	< 0.001	4.44	0.0590	< 0.000008	0.000560	0.000330	0.0300	1.40
	WQ13	Surface		5/15/2012	0.0000700	< 0.001	3.43	0.0857	< 0.000005	0.000450	0.000410	0.0200	0.700
	WQ13	Surface		5/22/2012	< 0.00005	< 0.001	3.55	0.0276	< 0.000005	0.000480	0.000220	0.0200	0.700
	WQ13	Surface		5/28/2012	< 0.00005	< 0.001	3.80	0.0258	< 0.000005	0.000430	< 0.00005	< 0.02	0.700
	WQ13	Surface		6/4/2012	< 0.00005	< 0.001	3.65	0.0233	< 0.000005	0.000660	0.000200	< 0.02	0.700
	WQ13	Surface	Dup	6/11/2012	< 0.00005	< 0.001	3.93	0.0209	< 0.000005	0.000460	0.000290	< 0.02	0.700
	WQ13	Surface		6/11/2012	< 0.00005	< 0.001	3.54	0.0117	< 0.000005	0.000470	0.000260	< 0.02	0.600
	WQ13	Surface		6/18/2012	< 0.00005	< 0.001	3.70	0.0252	< 0.000005	0.000510	0.000290	< 0.02	0.700
	WQ13	Surface		7/16/2012	< 0.00005	< 0.001	4.08	0.0256	< 0.000005	0.000570	0.000210	< 0.02	0.700
	WQ13	Surface		8/13/2012	0.000280	< 0.001	4.45	0.0354	< 0.000005	0.000650	0.000250	< 0.02	0.800
	WQ13	Surface		9/17/2012	< 0.00005	< 0.001	4.51	0.0312	< 0.000005	0.000630	0.000330	< 0.02	0.800
	WQ13	Surface		10/15/2012	< 0.00005	< 0.001	4.62	0.0366	< 0.000005	0.000660	0.000140	< 0.02	0.800
	WQ13	Surface		11/12/2012	< 0.00005	< 0.001	4.72	0.0455	< 0.000005	0.000530	0.000260	< 0.02	0.800
	WQ13	Surface		1/15/2013	< 0.00005	< 0.001	5.34	0.0563	< 0.000005	0.000690	0.000340	0.0400	1.10
	WQ13	Surface		5/14/2013	< 0.00005	< 0.001	3.54	0.0329	< 0.000005	0.000450	0.000260	< 0.01	0.700
	WQ13	Surface		5/22/2013	< 0.00005	< 0.001	1.01	0.00894	0.0110	0.000210	0.000280	0.0100	< 0.5
	WQ13	Surface		5/28/2013	< 0.00005	< 0.001	3.70	0.0199	< 0.000005	0.000490	0.000190	< 0.01	0.800
	WQ13	Surface		6/4/2013	< 0.00005	< 0.001	3.63	0.0149	< 0.000005	0.000460	0.000250	0.0200	0.700
	WQ13	Surface		6/10/2013	< 0.00005	< 0.001	3.92	0.0198	< 0.000005	0.000560	0.000350	0.0100	0.700
	WQ13	Surface		6/18/2013	< 0.00005	< 0.001	3.68	0.0197	< 0.000005	0.000500	0.000290	0.0200	0.700
L1913531-4	WQ13	Surface	Dup	4/12/2017	<0.000050	<0.0010	4.19	0.0344	<0.0000050	0.000554	<0.00050	<0.30	0.795
L1913531-2	WQ13	Surface		4/12/2017	<0.000050	<0.0010	4.25	0.0337	<0.0000050	0.000553	<0.00050	<0.30	0.790
L1926080-1	WQ13	Surface		5/11/2017	0.0000650	<0.0010	4.29	0.0267	<0.0000050	0.000522	<0.00050	<0.30	0.853
L1939712-11	WQ13	Surface		6/7/2017	<0.000050	<0.0010	3.84	0.0210	<0.0000050	0.000511	<0.00050	<0.30	0.709
L1964508-2	WQ13	Surface		7/24/2017	<0.000050	<0.0010	4.48	0.0241	<0.0000050	0.000625	<0.00050	<0.30	0.764
L1984944-8	WQ13	Surface		8/30/2017	<0.000050	<0.0010	4.84	0.0323	<0.0000050	0.000750	<0.00050	<0.30	0.878
L1988832-7	WQ13	Surface		9/9/2017	<0.000050	<0.0010	4.82	0.0332	<0.0000050	0.000676	<0.00050	<0.30	0.817

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Lead (Pb)-Total	Lithium (Li)-Total	Magnesium (Mg)-Total	Manganese (Mn)-Total	Mercury (Hg)-Total	Molybdenum (Mo)-Total	Nickel (Ni)-Total	Phosphorus (P)-Total	Potassium (K)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2009845-1	WQ13	Surface		10/17/2017	<0.000050	<0.0010	4.32	0.0321	<0.0000050	0.000664	<0.00050	<0.30	0.811
L2020333-1	WQ13	Surface		11/7/2017	<0.000050	<0.0010	4.45	0.0428	<0.0000050	0.000578	<0.00050	<0.30	0.676
L2034610-4	WQ13	Surface		12/11/2017	<0.000050	<0.0010	4.56	0.0266	<0.0000050	0.000630	<0.00050	<0.30	0.767
L2049224-3	WQ13	Surface		1/23/2018	<0.000050	<0.0010	4.66	0.0289	<0.0000050	0.000669	<0.00050	<0.30	0.805
L2060442-3	WQ13	Surface		2/23/2018	<0.000050	<0.0010	4.43	0.0213	<0.0000050	0.000618	<0.00050	<0.30	0.804
L2074294-7	WQ13	Surface		3/28/2018	<0.000050	<0.0010	4.67	0.0288	<0.0000050	0.000708	<0.00050	<0.30	1.25
L2081505-5	WQ13	Surface		4/16/2018	<0.000050	<0.0010	4.84	0.0337	<0.0000050	0.000679	<0.00050	<0.30	1.54
L2097084-4	WQ13	Surface		5/16/2018	<0.000050	<0.0010	3.38	0.0110	<0.0000050	0.000534	<0.00050	<0.30	0.754
L2104479-4	WQ13	Surface		5/30/2018	<0.000050	<0.0010	3.66	0.0150	<0.0000050	0.000505	<0.00050	<0.30	0.720
L2132986-1	WQ13	Surface		7/18/2018	0.0000890	<0.0010	3.87	0.0216	<0.0000050	0.000695	<0.00050	<0.30	0.775
L2144782-5	WQ13	Surface		8/9/2018	<0.000050	<0.0010	4.31	0.0325	<0.0000050	0.000656	<0.00050	<0.30	0.787
L2164448-1	WQ13	Surface		9/12/2018	<0.000050	<0.0010	4.43	0.0294	<0.0000050	0.000720	<0.00050	<0.30	0.824
L2188218-5	WQ13	Surface		10/26/2018	<0.000050	<0.0010	4.66	0.0486	<0.0000050	0.000804	0.000790	0.410	1.13
L2203408-5	WQ13	Surface		11/27/2018	<0.000050	<0.0010	4.09	0.0361	<0.0000050	0.000590	<0.00050	<0.30	0.823
L2213684-4	WQ13	Surface		12/19/2018	<0.000050	<0.0010	4.34	0.0225	0.00000700	0.000595	<0.00050	<0.30	0.792
L2227101-4	WQ13	Surface		1/29/2019	<0.000050	<0.0010	4.73	0.0175	<0.0000050	0.000589	<0.00050	<0.30	0.866
L2232050-7	WQ13	Surface		2/11/2019	<0.000050	<0.0010	4.68	0.0166	<0.0000050	0.000615	<0.00050	<0.30	0.817
L2245144-2	WQ13	Surface		3/14/2019	<0.000050	<0.0010	4.53	0.0186	<0.0000050	0.000601	<0.00050	<0.30	0.914
L2256054-4	WQ13	Surface		4/9/2019	<0.000050	<0.0010	3.86	0.0241	<0.0000050	0.000761	<0.00050	<0.30	1.12
L2274397-3	WQ13	Surface		5/14/2019	<0.000050	<0.0010	3.64	0.0262	<0.0000050	0.000545	<0.00050	<0.30	0.779
L2286702-4	WQ13	Surface		6/4/2019	<0.000050	<0.0010	4.11	0.0187	<0.0000050	0.000557	<0.00050	<0.30	0.740
L2312637-2	WQ13	Surface		7/16/2019	<0.000050	<0.0010	3.91	0.0158	0.00000520	0.000596	<0.00050	<0.30	0.730
L2326388-5	WQ13	Surface		8/8/2019	<0.000050	<0.0010	3.85	0.0184	<0.0000050	0.000563	<0.00050	<0.30	0.677
L2349445-4	WQ13	Surface		9/16/2019	<0.000050	<0.0010	4.25	0.0248	<0.0000050	0.000673	<0.00050	<0.30	0.791
L2372667-4	WQ13	Surface		10/23/2019	<0.000050	<0.0010	4.19	0.0247	<0.0000050	0.000582	<0.00050	<0.30	0.738
L2388381-4	WQ13	Surface		11/25/2019	<0.000050	<0.0010	3.69	0.0350	<0.0000050	0.000531	<0.00050	<0.30	0.726
VA19A0791-005	WQ13	Surface	Dup	12/17/2019	<0.000050	<0.0010	4.56	0.0206	<0.0000050	0.000571	<0.00050	<0.050	0.785
VA19A0791-004	WQ13	Surface		12/17/2019	<0.000050	<0.0010	4.55	0.0203	<0.0000050	0.000572	<0.00050	<0.050	0.780
VA20A0960-004	WQ13	Surface		1/27/2020	<0.000050	<0.0010	4.44	0.0157	<0.0000050	0.000621	<0.00050	<0.050	0.780
VA20A2126-003	WQ13	Surface		2/19/2020	<0.000050	<0.0010	4.60	0.0158	<0.0000050	0.000596	<0.00050	<0.050	0.857
VA20A3691-001	WQ13	Surface		3/18/2020	<0.000050	<0.0010	5.11	0.0192	<0.0000050	0.000653	<0.00050	<0.050	0.838
VA20A4555-005	WQ13	Surface		4/7/2020	<0.000050	<0.0010	5.02	0.0429	<0.0000050	0.000714	<0.00050	0.0520	0.888
VA20A6218-004	WQ13	Surface		5/7/2020	<0.000050	<0.0010	3.51	0.0182	<0.0000050	0.000485	<0.00050	<0.050	0.775
VA20A6356-003	WQ13	Surface		5/11/2020	<0.000050	<0.0010	3.31	0.0231	<0.0000050	0.000505	<0.00050	0.0500	0.716
VA20A6869-003	WQ13	Surface		5/20/2020	<0.000050	<0.0010	3.26	0.0176	<0.0000050	0.000483	<0.00050	<0.050	0.669
VA20A7367-003	WQ13	Surface		5/28/2020	0.0000710	<0.0010	3.82	0.0230	<0.0000050	0.000495	<0.00050	<0.050	0.706
VA20A7797-003	WQ13	Surface		6/3/2020	<0.000050	<0.0010	3.78	0.0199	<0.0000050	0.000555	<0.00050	<0.050	0.752
VA20B0021-003	WQ13	Surface		7/7/2020	<0.000050	<0.0010	3.66	0.0171	<0.0000050	0.000593	<0.00050	<0.050	0.723
VA20B2156-003	WQ13	Surface		8/5/2020	<0.000050	<0.0010	4.14	0.0186	<0.0000050	0.000680	<0.00050	<0.050	0.756
VA20B2542-004	WQ13	Surface		8/11/2020	<0.000050	<0.0010	4.59	0.0242	<0.0000050	0.000689	<0.00050	<0.050	0.758
VA20B3218-002	WQ13	Surface		8/18/2020	<0.000050	<0.0010	4.23	0.0382	<0.0000050	0.000690	<0.00050	<0.050	0.811
VA20B3860-003	WQ13	Surface		8/26/2020	<0.000050	<0.0010	4.28	0.0371	<0.0000050	0.000625	<0.00050	<0.050	0.814
VA20B4313-003	WQ13	Surface		9/1/2020	<0.000050	<0.0010	4.27	0.0322	<0.0000050	0.000629	<0.00050	<0.050	0.785
VA20B7828-003	WQ13	Surface		10/8/2020	<0.000050	<0.0010	4.04	0.0294	<0.0000050	0.000685	<0.00050	<0.050	0.751

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					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
VA20C1281-002	WQ13	Surface	Dup	11/18/2020	<0.000050	<0.0010	4.20	0.0328	<0.0000050	0.000529	<0.00050	<0.050	0.725
VA20C1281-001	WQ13	Surface		11/18/2020	<0.000050	<0.0010	4.31	0.0401	<0.0000050	0.000595	<0.00050	<0.050	0.743
	WQ14	Surface		5/24/2011	< 0.00005	< 0.001	2.34	0.0208	< 0.000008	0.000440	0.000490	0.0200	0.900
	WQ14	Surface		5/30/2011	< 0.00005	< 0.001	2.54	0.00672	< 0.000008	0.000500	0.000400	< 0.02	0.700
	WQ14	Surface		6/6/2011	< 0.00005	< 0.001	2.90	0.00867	< 0.000008	0.000490	0.000330	< 0.02	0.600
	WQ14	Surface		6/13/2011	< 0.00005	< 0.001	3.34	0.00791	< 0.000008	0.000490	0.000290	< 0.02	0.500
	WQ14	Surface	Dup	7/18/2011	< 0.00005	< 0.001	3.76	0.0192	< 0.000008	0.000490	0.000280	< 0.02	< 0.5
	WQ14	Surface		7/18/2011	0.000190	< 0.001	3.89	0.155	< 0.000008	0.000580	0.00110	0.0700	0.500
	WQ14	Surface		8/15/2011	< 0.00005	< 0.001	5.21	0.0445	< 0.000008	0.000600	0.000250	< 0.02	0.600
	WQ14	Surface		9/19/2011	< 0.00005	< 0.001	5.81	0.0179	< 0.000008	0.000550	< 0.00005	< 0.02	0.700
	WQ14	Surface		10/17/2011	< 0.00005	< 0.001	5.15	0.0410	< 0.000008	0.000450	0.0000700	< 0.02	0.700
	WQ14	Surface	Dup	11/14/2011	< 0.00005	< 0.001	5.57	0.0227	< 0.000008	0.000530	0.000160	< 0.02	0.800
	WQ14	Surface		11/14/2011	< 0.00005	< 0.001	5.42	0.0241	< 0.000008	0.000520	0.000160	< 0.02	0.800
	WQ14	Surface		12/13/2011	< 0.00005	< 0.001	6.42	0.0772	< 0.000008	0.000630	0.000220	< 0.02	1.00
	WQ14	Surface	Dup	1/12/2012	< 0.00005	< 0.001	4.74	0.0228	< 0.000008	0.000610	0.000210	< 0.02	0.900
	WQ14	Surface		1/12/2012	< 0.00005	< 0.001	6.30	0.0968	< 0.000008	0.000690	0.000150	< 0.02	1.00
	WQ14	Surface		4/17/2012	< 0.00005	< 0.001	4.83	0.0878	< 0.000008	0.000580	0.000230	0.0300	2.00
	WQ14	Surface		5/23/2012	< 0.00005	< 0.001	3.02	0.00447	< 0.000005	0.000470	< 0.00005	< 0.02	0.600
	WQ14	Surface		5/28/2012	< 0.00005	< 0.001	2.97	0.00393	< 0.000005	0.000430	< 0.00005	< 0.02	0.600
	WQ14	Surface	Dup	6/4/2012	< 0.00005	< 0.001	3.10	0.00787	< 0.000005	0.000460	0.000230	< 0.02	0.500
	WQ14	Surface		6/4/2012	< 0.00005	< 0.001	3.14	0.00909	< 0.000005	0.000500	0.000210	< 0.02	0.500
	WQ14	Surface		6/11/2012	< 0.00005	< 0.001	3.42	0.0101	< 0.000005	0.000460	0.000250	< 0.02	0.500
	WQ14	Surface		6/18/2012	< 0.00005	< 0.001	3.84	0.0187	< 0.000005	0.000500	0.000220	< 0.02	< 0.5
	WQ14	Surface		7/16/2012	< 0.00005	< 0.001	5.06	0.0206	< 0.000005	0.000720	0.000240	< 0.02	< 0.5
	WQ14	Surface		8/13/2012	< 0.00005	< 0.001	5.67	0.0160	< 0.000005	0.000720	0.000260	< 0.02	0.600
	WQ14	Surface		9/17/2012	< 0.00005	< 0.001	6.05	0.00834	< 0.000005	0.000550	0.000200	< 0.02	0.600
	WQ14	Surface		10/16/2012	< 0.00005	< 0.001	5.80	0.0120	< 0.000005	0.000520	0.0000800	< 0.02	1.10
	WQ14	Surface		11/12/2012	< 0.00005	< 0.001	6.52	0.0237	< 0.000005	0.000430	0.000180	< 0.02	1.00
	WQ14	Surface		12/10/2012	< 0.00005	< 0.001	8.47	0.0516	< 0.000005	0.000710	0.00100	0.0300	1.70
	WQ14	Surface		4/16/2013	< 0.00005	< 0.001	4.97	0.00554	< 0.000005	0.000600	0.000250	0.0100	1.10
	WQ14	Surface	Dup	5/14/2013	< 0.00005	< 0.001	2.88	0.0104	< 0.000005	0.000400	0.000260	< 0.01	0.600
	WQ14	Surface		5/14/2013	< 0.00005	< 0.001	2.91	0.0190	< 0.000005	0.000400	0.000260	< 0.01	0.600
	WQ14	Surface		5/21/2013	< 0.00005	< 0.001	3.15	0.00626	< 0.000005	0.000430	0.000250	0.0100	0.600
	WQ14	Surface		5/28/2013	< 0.00005	< 0.001	3.54	0.00485	< 0.000005	0.000470	0.000100	< 0.01	0.800
	WQ14	Surface		6/4/2013	< 0.00005	< 0.001	3.14	0.00451	< 0.000005	0.000390	0.000290	0.0100	0.500
	WQ14	Surface	Dup	6/11/2013	< 0.00005	< 0.001	3.75	0.00863	< 0.000005	0.000440	0.000270	< 0.01	< 0.5
	WQ14	Surface		6/11/2013	0.000460	< 0.001	3.76	0.00842	< 0.000005	0.000450	0.000260	< 0.01	< 0.5
	WQ14	Surface		6/18/2013	< 0.00005	0.00200	36.9	0.0803	< 0.000005	0.00484	0.00456	0.170	4.40
	WQ15	Surface		9/24/2012	< 0.00005	< 0.001	1.14	0.0405	< 0.000005	0.000570	0.000150	< 0.02	< 0.5
	WQ15	Surface		10/15/2012	< 0.00005	< 0.001	1.16	0.0217	< 0.000005	0.000500	< 0.00005	< 0.02	< 0.5
	WQ15	Surface		11/13/2012	< 0.00005	< 0.001	1.15	0.0335	< 0.000005	0.000600	0.0000900	< 0.02	< 0.5
	WQ15	Surface		1/13/2013	< 0.00005	< 0.001	1.32	0.0240	< 0.000005	0.000680	< 0.00005	< 0.02	< 0.5
	WQ15	Surface		2/12/2013	< 0.00005	< 0.001	1.25	0.0360	< 0.000005	0.000690	< 0.00005	< 0.02	< 0.5
	WQ15	Surface		3/11/2013	< 0.00005	< 0.001	1.23	0.0158	< 0.000005	0.000690	0.0000700	< 0.01	< 0.5

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					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ15	Surface		4/15/2013	< 0.00005	< 0.001	1.10	0.00751	< 0.000005	0.000700	0.0000800	0.0100	< 0.5
	WQ15	Surface		5/13/2013	< 0.00005	< 0.001	0.970	0.0310	< 0.000005	0.000500	0.0000700	< 0.01	< 0.5
	WQ15	Surface		5/22/2013	< 0.00005	< 0.001	3.66	0.0412	0.00300	0.000480	0.000300	0.0100	0.700
	WQ15	Surface		5/27/2013	< 0.00005	< 0.001	1.01	0.0166	< 0.000005	0.000560	< 0.00005	< 0.01	< 0.5
	WQ15	Surface		6/6/2013	< 0.00005	< 0.001	0.840	0.00775	< 0.000005	0.000500	0.0000600	0.0100	< 0.5
	WQ15	Surface		6/10/2013	< 0.00005	< 0.001	0.840	0.0187	< 0.000005	0.000580	0.0000700	0.0100	< 0.5
	WQ15	Surface		6/17/2013	< 0.00005	< 0.001	0.830	0.0207	< 0.000005	0.000510	0.0000500	0.0100	< 0.5
	WQ15	Surface		4/13/2014	< 0.00005	< 0.001	1.10	0.00831	< 0.000005	0.000520	0.000170	< 0.01	< 0.5
	WQ15	Surface		7/2/2014	< 0.00005	< 0.001	0.980	0.0360	< 0.000005	0.000390	< 0.00005	< 0.010	< 0.5
	WQ15	Surface		9/24/2014	< 0.00005	< 0.001	1.36	0.129	< 0.000005	0.000370	0.000150	0.0200	< 0.5
	WQ15	Surface		12/8/2014	< 0.00005	< 0.001	1.13	0.00894	< 0.000005	0.000620	< 0.00005	< 0.010	< 0.5
	WQ16	Surface		9/24/2012	< 0.00005	< 0.001	1.16	0.0267	< 0.000005	0.000630	0.000140	0.0200	< 0.5
	WQ16	Surface		10/15/2012	< 0.00005	< 0.001	1.14	0.0110	< 0.000005	0.000520	< 0.00005	< 0.02	< 0.5
	WQ16	Surface		11/13/2012	0.000400	< 0.001	1.24	0.00525	< 0.000005	0.000730	< 0.00005	< 0.02	< 0.5
	WQ16	Surface		1/13/2013	< 0.00005	< 0.001	1.34	0.0378	< 0.000005	0.000830	< 0.00005	< 0.02	< 0.5
	WQ16	Surface		2/12/2013	< 0.00005	< 0.001	1.46	0.0384	< 0.000005	0.000820	< 0.00005	< 0.02	< 0.5
	WQ16	Surface		3/11/2013	0.000340	< 0.001	1.37	0.103	< 0.000005	0.00108	0.000330	0.0600	< 0.5
	WQ16	Surface		4/15/2013	< 0.00005	< 0.001	1.21	0.00862	< 0.000005	0.000830	0.0000500	0.0100	< 0.5
	WQ16	Surface		5/13/2013	< 0.00005	< 0.001	1.12	0.0252	< 0.000005	0.000660	< 0.00005	< 0.01	< 0.5
	WQ16	Surface		5/22/2013	< 0.00005	< 0.001	0.920	0.0186	< 0.000005	0.000510	0.0000900	< 0.01	< 0.5
	WQ16	Surface		5/27/2013	< 0.00005	< 0.001	1.30	0.0166	< 0.000005	0.000770	< 0.00005	< 0.01	< 0.5
	WQ16	Surface		6/6/2013	< 0.00005	< 0.001	1.02	0.0104	< 0.000005	0.000670	< 0.00005	0.0200	< 0.5
	WQ16	Surface		6/10/2013	0.000190	< 0.001	1.04	0.0786	< 0.000005	0.000870	< 0.00005	0.0600	< 0.5
	WQ16	Surface		6/17/2013	< 0.00005	< 0.001	0.980	0.00577	< 0.000005	0.000790	< 0.00005	0.0100	< 0.5
	WQ16	Surface		4/13/2014	< 0.00005	< 0.001	1.16	0.0169	< 0.000005	0.000800	0.000120	< 0.01	< 0.5
	WQ16	Surface		7/2/2014	< 0.00005	< 0.001	1.11	0.0119	< 0.000005	0.000580	< 0.00005	< 0.010	< 0.5
	WQ16	Surface		9/24/2014	< 0.00005	< 0.001	1.15	0.0260	< 0.000005	0.000360	0.000150	0.0100	< 0.5
	WQ16	Surface		12/8/2014	< 0.00005	< 0.001	1.23	0.0119	< 0.000005	0.000850	< 0.00005	< 0.010	< 0.5
	WQ17	Surface		12/12/2011	< 0.00005	< 0.001	2.47	0.00878	< 0.000008	0.00194	0.0000900	< 0.02	< 0.5
	WQ17	Surface		3/12/2012	< 0.00005	< 0.001	2.93	0.00759	< 0.000008	0.00252	0.000130	< 0.02	< 0.5
	WQ17	Surface	Dup	6/18/2012	< 0.00005	< 0.001	0.870	0.00335	< 0.000005	0.000570	0.000250	< 0.02	< 0.5
	WQ17	Surface		6/18/2012	< 0.00005	< 0.001	0.770	0.00379	< 0.000005	0.000590	0.000240	< 0.02	< 0.5
	WQ17	Surface	Dup	9/17/2012	< 0.00005	< 0.001	2.26	0.0137	< 0.000005	0.00191	0.000250	< 0.02	< 0.5
	WQ17	Surface		9/17/2012	< 0.00005	< 0.001	2.28	0.0139	< 0.000005	0.00170	0.000230	< 0.02	< 0.5
	WQ17	Surface		1/13/2013	< 0.00005	< 0.001	3.15	0.0110	< 0.000005	0.00243	0.0000800	< 0.02	< 0.5
	WQ18	Surface		12/12/2011	< 0.00005	< 0.001	8.48	0.00458	< 0.000008	0.000680	0.000460	0.0400	2.40
	WQ18	Surface		3/12/2012	< 0.00005	0.00100	9.52	0.00576	< 0.000008	0.000760	0.000450	0.0500	2.70
	WQ18	Surface		6/19/2012	< 0.00005	< 0.001	5.68	0.0235	< 0.000005	0.000540	0.000630	0.0400	1.70
	WQ18	Surface		9/18/2012	< 0.00005	0.00100	7.77	0.00852	< 0.000005	0.000790	0.000450	0.0500	2.10
	WQ18	Surface		1/16/2013	0.000360	0.00100	9.69	0.370	0.00000900	0.000770	0.000570	0.290	3.80
	WQ19	Surface		6/18/2012	< 0.00005	< 0.001	3.61	0.00136	< 0.000005	0.000690	< 0.00005	< 0.02	0.500
	WQ19	Surface		9/17/2012	< 0.00005	< 0.001	4.47	0.00224	< 0.000005	0.000750	< 0.00005	< 0.02	0.700
	WQ19	Surface		12/10/2012	< 0.00005	< 0.001	4.87	0.00109	< 0.000005	0.000630	0.0000700	< 0.02	0.700
	WQ26	Surface		1/13/2013	< 0.00005	< 0.001	4.07	0.00594	< 0.000005	0.000810	< 0.00005	< 0.02	0.600

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Lead (Pb)-Total	Lithium (Li)-Total	Magnesium (Mg)-Total	Manganese (Mn)-Total	Mercury (Hg)-Total	Molybdenum (Mo)-Total	Nickel (Ni)-Total	Phosphorus (P)-Total	Potassium (K)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ26	Surface		2/12/2013	< 0.00005	< 0.001	3.91	0.00376	< 0.000005	0.000820	< 0.00005	< 0.02	0.600
	WQ26	Surface		3/11/2013	< 0.00005	< 0.001	4.08	0.00352	< 0.000005	0.000890	0.000120	< 0.01	0.700
	WQ26	Surface		4/15/2013	< 0.00005	< 0.001	3.13	0.00434	< 0.000005	0.000670	0.000160	0.0200	0.500
	WQ26	Surface		5/13/2013	0.0000900	< 0.001	0.920	0.0162	< 0.000005	0.000180	0.000300	0.0100	< 0.5
	WQ26	Surface		5/22/2013	< 0.00005	< 0.001	1.10	0.00937	0.00200	0.000700	< 0.00005	< 0.01	< 0.5
	WQ26	Surface		5/27/2013	0.0000700	< 0.001	1.08	0.0133	< 0.000005	0.000220	0.000150	< 0.01	< 0.5
	WQ26	Surface		6/6/2013	0.0000600	< 0.001	1.04	0.0100	< 0.000005	0.000230	0.000250	0.0200	< 0.5
	WQ26	Surface		6/10/2013	0.0000600	< 0.001	1.19	0.00706	< 0.000005	0.000320	0.000200	0.0100	< 0.5
	WQ26	Surface		6/17/2013	< 0.00005	< 0.001	1.20	0.00696	< 0.000005	0.000280	0.000250	0.0200	< 0.5
L1762266-6	WQ26	Surface	Dup	4/27/2016	0.0000980	<0.0010	1.09	0.0138	0.0000110	0.000263	<0.00050	<0.30	0.391
L1762266-3	WQ26	Surface		4/27/2016	0.0000890	<0.0010	1.06	0.0142	0.0000110	0.000245	<0.00050	<0.30	0.377
L1764648-3	WQ26	Surface	Dup	5/3/2016	<0.000050	<0.0010	0.820	0.00514	0.0000110	0.000247	<0.00050	<0.30	0.307
L1764648-2	WQ26	Surface		5/3/2016	0.0000540	<0.0010	0.921	0.00846	0.0000100	0.000289	<0.00050	<0.30	0.291
L1767107-3	WQ26	Surface		5/9/2016	<0.000050	<0.0010	1.18	0.00625	0.0000100	0.000318	<0.00050	<0.30	0.303
L1770672-3	WQ26	Surface		5/16/2016	<0.000050	<0.0010	1.34	0.00637	0.00000800	0.000421	<0.00050	<0.30	0.355
L1774541-2	WQ26	Surface		5/25/2016	<0.000050	<0.0010	1.54	0.00592	<0.0000050	0.000458	<0.00050	<0.30	0.381
L1788643-2	WQ26	Surface		6/22/2016	<0.000050	<0.0010	1.29	0.00564	<0.0000050	0.000363	0.00536	<0.30	0.319
L1808945-2	WQ26	Surface	Dup	8/3/2016	<0.000050	<0.0010	2.00	0.00616	<0.0000050	0.000521	<0.00050	<0.30	0.434
L1808945-6	WQ26	Surface		8/3/2016	<0.000050	<0.0010	2.04	0.00659	<0.0000050	0.000533	<0.00050	<0.30	0.452
L1812856-2	WQ26	Surface		8/10/2016	<0.000050	<0.0010	2.14	0.00586	<0.0000050	0.000578	<0.00050	<0.30	0.476
L1815654-2	WQ26	Surface		8/16/2016	<0.000050	<0.0010	2.44	0.00583	<0.0000050	0.000634	<0.00050	<0.30	0.529
L1819041-4	WQ26	Surface	Dup	8/23/2016	<0.000050	<0.0010	2.38	0.00528	<0.0000050	0.000761	<0.00050	<0.30	0.503
L1819041-8	WQ26	Surface		8/23/2016	<0.000050	<0.0010	2.40	0.00503	<0.0000050	0.000675	<0.00050	<0.30	0.505
L1823224-5	WQ26	Surface		8/31/2016	<0.000050	<0.0010	2.31	0.00472	<0.0000050	0.000653	<0.00050	<0.30	0.475
L1826303-5	WQ26	Surface		9/7/2016	<0.000050	<0.0010	1.98	0.00540	<0.0000050	0.000566	<0.00050	<0.30	0.408
L1913531-5	WQ26	Surface		4/12/2017	<0.000050	<0.0010	3.79	0.00479	<0.0000050	0.000775	<0.00050	<0.30	0.599
L1926080-2	WQ26	Surface		5/11/2017	0.0000980	<0.0010	1.41	0.0151	0.00000900	0.000256	<0.00050	<0.30	0.537
L1928943-5	WQ26	Surface	Dup	5/17/2017	0.0000520	<0.0010	1.15	0.0110	0.0000130	0.000389	<0.00050	<0.30	0.426
L1928943-1	WQ26	Surface		5/17/2017	0.0000550	<0.0010	1.16	0.0110	0.0000100	0.000272	<0.00050	<0.30	0.452
L1932034-3	WQ26	Surface		5/24/2017	0.000121	<0.0010	0.932	0.0228	0.0000100	0.000222	<0.00050	<0.30	0.384
L1935151-5	WQ26	Surface	Dup	5/30/2017	0.0000770	<0.0010	0.730	0.0164	0.00000900	0.000222	<0.00050	<0.30	0.322
L1935151-1	WQ26	Surface		5/30/2017	0.0000900	<0.0010	0.730	0.0159	0.00000900	0.000223	<0.00050	<0.30	0.323
L1939712-4	WQ26	Surface	Dup	6/7/2017	0.000137	<0.0010	1.07	0.00939	0.00000700	0.000292	<0.00050	<0.30	0.339
L1939712-3	WQ26	Surface		6/7/2017	<0.000050	<0.0010	1.08	0.00935	0.00000600	0.000289	<0.00050	<0.30	0.335
L1964508-1	WQ26	Surface		7/24/2017	<0.000050	<0.0010	2.72	0.00458	<0.0000050	0.000671	<0.00050	<0.30	0.549
L1984944-4	WQ26	Surface		8/30/2017	<0.000050	<0.0010	3.65	0.00450	<0.0000050	0.000956	<0.00050	<0.30	0.640
L1988190-3	WQ26	Surface		9/6/2017	<0.000050	<0.0010	3.44	0.00480	<0.0000050	0.000807	<0.00050	<0.30	0.666
L1991279-3	WQ26	Surface		9/13/2017	<0.000050	<0.0010	3.34	0.00474	<0.0000050	0.000836	<0.00050	<0.30	0.606
L1995655-1	WQ26	Surface		9/21/2017	<0.000050	<0.0010	2.83	0.00685	<0.0000050	0.000759	<0.00050	<0.30	0.513
L1999769-1	WQ26	Surface		9/28/2017	<0.000050	<0.0010	3.24	0.00562	<0.0000050	0.000777	<0.00050	<0.30	0.549
L2009845-5	WQ26	Surface		10/17/2017	0.000108	<0.0010	1.78	0.0475	<0.000025	0.000548	0.000640	<0.30	0.485
L2020333-5	WQ26	Surface		11/7/2017	<0.000050	<0.0010	2.02	0.00813	<0.0000050	0.000471	<0.00050	<0.30	0.328
L2035356-3	WQ26	Surface		12/12/2017	<0.000050	<0.0010	2.37	0.00555	<0.0000050	0.000594	<0.00050	<0.30	0.443
L2049678-3	WQ26	Surface		1/24/2018	<0.000050	<0.0010	2.98	0.00429	<0.0000050	0.000710	<0.00050	<0.30	0.503

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					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2057605-1	WQ26	Surface		2/14/2018	<0.000050	<0.0010	3.02	0.00471	<0.0000050	0.000762	0.00858	<0.30	0.517
L2074294-4	WQ26	Surface		3/28/2018	<0.000050	<0.0010	3.42	0.00404	<0.0000050	0.000851	<0.00050	<0.30	0.507
L2081503-5	WQ26	Surface		4/17/2018	<0.000050	<0.0010	3.36	0.00414	<0.0000050	0.000829	<0.00050	<0.30	0.521
L2097084-5	WQ26	Surface		5/16/2018	0.000207	<0.0010	0.789	0.0349	0.0000132	0.000252	<0.00050	<0.30	0.368
L2103632-4	WQ26	Surface		5/29/2018	<0.000050	<0.0010	1.17	0.00856	0.00000660	0.000322	<0.00050	<0.30	0.329
L2132986-5	WQ26	Surface		7/18/2018	<0.000050	<0.0010	2.21	0.00520	<0.0000050	0.000660	<0.00050	<0.30	0.522
L2143640-4	WQ26	Surface	Dup	8/7/2018	<0.000050	<0.0010	2.57	0.00579	<0.0000050	0.000708	<0.00050	<0.30	0.578
L2143640-3	WQ26	Surface		8/7/2018	<0.000050	<0.0010	2.53	0.00591	<0.0000050	0.000693	<0.00050	<0.30	0.555
L2156026-1	WQ26	Surface		8/28/2018	<0.000050	<0.0010	3.12	0.00459	<0.0000050	0.000852	<0.00050	<0.30	0.602
L2159605-1	WQ26	Surface		9/4/2018	0.0000640	<0.0010	3.23	0.00452	<0.0000050	0.000853	<0.00050	<0.30	0.535
L2160840-4	WQ26	Surface	Dup	9/7/2018	0.0000540	<0.0010	3.38	0.00405	<0.0000050	0.000849	<0.00050	<0.30	0.579
L2160840-1	WQ26	Surface		9/7/2018	<0.000050	<0.0010	3.29	0.00400	<0.0000050	0.000881	<0.00050	<0.30	0.597
L2163669-3	WQ26	Surface		9/11/2018	<0.000050	<0.0010	3.13	0.00441	<0.0000050	0.000826	<0.00050	<0.30	0.589
L2188218-4	WQ26	Surface		10/26/2018	<0.000050	<0.0010	2.54	0.00418	<0.0000050	0.000637	<0.00050	<0.30	0.452
L2203408-1	WQ26	Surface		11/27/2018	<0.000050	<0.0010	2.02	0.00398	<0.0000050	0.000498	<0.00050	<0.30	0.426
L2213246-2	WQ26	Surface		12/18/2018	<0.000050	<0.0010	2.26	0.00451	<0.0000050	0.000611	<0.00050	<0.30	0.402
L2227701-2	WQ26	Surface		1/30/2019	<0.000050	<0.0010	2.83	0.00358	<0.0000050	0.000710	<0.00050	<0.30	0.456
L2232050-1	WQ26	Surface		2/11/2019	<0.000050	<0.0010	2.96	0.00351	<0.0000050	0.000750	<0.00050	<0.30	0.478
L2244756-5	WQ26	Surface	Dup	3/13/2019	<0.000050	<0.0010	3.50	0.00367	<0.0000050	0.000869	<0.00050	<0.30	0.500
L2244756-2	WQ26	Surface		3/13/2019	<0.000050	<0.0010	3.40	0.00342	<0.0000050	0.000815	<0.00050	<0.30	0.491
L2256053-2	WQ26	Surface		4/8/2019	<0.000050	<0.0010	2.02	0.00359	<0.0000050	0.000568	<0.00050	<0.30	0.452
L2269368-2	WQ26	Surface		5/4/2019	0.0000620	<0.0010	1.30	0.0146	0.00000630	0.000336	<0.00050	<0.30	0.414
L2273497-4	WQ26	Surface		5/13/2019	0.0000700	<0.0010	0.943	0.0124	0.0000105	0.000282	<0.00050	<0.30	0.355
L2277964-7	WQ26	Surface		5/21/2019	0.000181	<0.0010	0.875	0.0372	0.0000140	0.000231	0.000610	<0.30	0.401
L2282975-2	WQ26	Surface		5/29/2019	0.0000520	<0.0010	1.13	0.0116	0.00000750	0.000277	<0.00050	<0.30	0.360
L2285579-2	WQ26	Surface		6/3/2019	<0.000050	<0.0010	1.32	0.00675	0.00000790	0.000323	<0.00050	<0.30	0.358
L2312637-3	WQ26	Surface		7/16/2019	<0.000050	<0.0010	1.49	0.00856	0.00000640	0.000376	<0.00050	<0.30	0.322
L2326388-3	WQ26	Surface		8/8/2019	<0.000050	<0.0010	1.63	0.00741	<0.0000050	0.000391	<0.00050	<0.30	0.378
L2349445-7	WQ26	Surface	Dup	9/16/2019	<0.000050	<0.0010	2.20	0.00600	<0.0000050	0.000602	<0.00050	<0.30	0.445
L2349445-5	WQ26	Surface		9/16/2019	<0.000050	<0.0010	2.22	0.00632	<0.0000050	0.000576	<0.00050	<0.30	0.458
L2371052-6	WQ26	Surface	Dup	10/22/2019	<0.000050	<0.0010	1.62	0.0105	<0.0000050	0.000385	<0.00050	<0.30	0.457
L2371052-4	WQ26	Surface		10/22/2019	<0.000050	<0.0010	1.65	0.0121	<0.0000050	0.000391	<0.00050	<0.30	0.460
L2383392-2	WQ26	Surface		11/14/2019	<0.000050	<0.0010	1.42	0.00529	<0.0000050	0.000377	<0.00050	<0.30	0.297
VA19A0726-001	WQ26	Surface		12/16/2019	<0.000050	<0.0010	1.86	0.00587	<0.0000050	0.000446	<0.00050	<0.050	0.354
VA20A0688-002	WQ26	Surface		1/21/2020	<0.000050	<0.0010	2.38	0.00434	<0.0000050	0.000549	<0.00050	<0.050	0.415
VA20A1887-002	WQ26	Surface		2/13/2020	<0.000050	<0.0010	2.81	0.00372	<0.0000050	0.000661	<0.00050	<0.050	0.457
VA20A3516-002	WQ26	Surface		3/16/2020	<0.000050	<0.0010	3.04	0.00417	<0.0000050	0.00171	<0.00050	<0.050	0.464
VA20A4555-001	WQ26	Surface		4/7/2020	<0.000050	<0.0010	3.23	0.00391	<0.0000050	0.000875	<0.00050	<0.050	0.491
VA20A6574-003	WQ26	Surface		5/14/2020	0.0000520	<0.0010	0.963	0.00969	0.00000700	0.000266	<0.00050	<0.050	0.335
VA20B2156-002	WQ26	Surface		8/5/2020	<0.000050	<0.0010	2.26	0.00826	<0.0000050	0.000628	<0.00050	<0.050	0.486
VA20C1166-003	WQ26	Surface		11/17/2020	0.0000830	<0.0010	1.44	0.0148	<0.0000050	0.000352	<0.00050	<0.050	0.285
	WQ27	Surface		4/13/2014	<0.00005	<0.001	2.69	0.00155	<0.000005	0.000750	0.000190	<0.01	<0.5
	WQ27	Surface		7/2/2014	<0.00005	<0.001	1.50	0.00311	<0.000005	0.000210	<0.00005	<0.010	<0.5
	WQ27	Surface		9/24/2014	<0.00005	<0.001	3.51	0.00326	<0.000005	0.000960	0.000110	0.0100	0.700

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Lead (Pb)-Total	Lithium (Li)-Total	Magnesium (Mg)-Total	Manganese (Mn)-Total	Mercury (Hg)-Total	Molybdenum (Mo)-Total	Nickel (Ni)-Total	Phosphorus (P)-Total	Potassium (K)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ27	Surface		12/9/2014	<0.00005	<0.001	3.03	0.00237	<0.000005	0.000780	0.000130	<0.010	<0.5
L1762266-4	WQ27	Surface		4/27/2016	0.0000570	<0.0010	0.748	0.00808	0.0000120	0.000209	<0.00050	<0.30	0.293
L1764648-6	WQ27	Surface		5/3/2016	<0.000050	<0.0010	0.812	0.00493	0.0000110	0.000208	<0.00050	<0.30	0.283
L1767107-4	WQ27	Surface		5/9/2016	<0.000050	<0.0010	0.895	0.00425	0.00000900	0.000274	<0.00050	<0.30	0.254
L1770672-4	WQ27	Surface		5/16/2016	<0.000050	<0.0010	0.957	0.00420	0.0000100	0.000347	<0.00050	<0.30	0.282
L1774541-3	WQ27	Surface		5/25/2016	<0.000050	<0.0010	1.14	0.00362	<0.0000050	0.000404	<0.00050	<0.30	0.309
L1788643-6	WQ27	Surface	Dup	6/22/2016	<0.000050	<0.0010	0.985	0.00491	<0.0000050	0.000315	<0.00050	<0.30	0.270
L1788643-3	WQ27	Surface		6/22/2016	<0.000050	<0.0010	0.992	0.00482	<0.0000050	0.000335	<0.00050	<0.30	0.285
L1808945-3	WQ27	Surface		8/3/2016	<0.000050	<0.0010	1.60	0.00464	<0.0000050	0.000491	<0.00050	<0.30	0.366
L1812856-3	WQ27	Surface		8/10/2016	<0.000050	<0.0010	1.50	0.00418	<0.0000050	0.000555	<0.00050	<0.30	0.379
L1815654-3	WQ27	Surface		8/16/2016	<0.000050	<0.0010	2.03	0.00440	<0.0000050	0.000623	<0.00050	<0.30	0.452
L1819041-10	WQ27	Surface		8/23/2016	<0.000050	<0.0010	1.77	0.00414	<0.0000050	0.000594	<0.00050	<0.30	0.415
L1823224-6	WQ27	Surface		8/31/2016	<0.000050	<0.0010	1.75	0.00385	<0.0000050	0.000602	<0.00050	<0.30	0.398
L1826303-2	WQ27	Surface		9/7/2016	<0.000050	<0.0010	1.40	0.00385	<0.0000050	0.000475	<0.00050	<0.30	0.337
L1913006-2	WQ27	Surface		4/11/2017	<0.000050	<0.0010	2.47	0.00252	<0.0000050	0.000849	<0.00050	<0.30	0.457
L1925486-3	WQ27	Surface		5/10/2017	0.0000710	<0.0010	0.991	0.0116	0.00000900	0.000222	<0.00050	<0.30	0.495
L1928943-2	WQ27	Surface		5/17/2017	0.0000520	<0.0010	0.904	0.00893	0.0000100	0.000234	<0.00050	<0.30	0.411
L1932034-2	WQ27	Surface		5/24/2017	0.0000770	<0.0010	0.758	0.0169	0.0000110	0.000184	<0.00050	<0.30	0.365
L1935151-2	WQ27	Surface		5/30/2017	0.0000760	<0.0010	0.605	0.0137	0.00000900	0.000195	<0.00050	<0.30	0.306
L1939712-2	WQ27	Surface		6/7/2017	<0.000050	<0.0010	0.800	0.00643	0.00000700	0.000251	<0.00050	<0.30	0.293
L1961670-3	WQ27	Surface		7/18/2017	<0.000050	<0.0010	1.99	0.00433	<0.0000050	0.000628	<0.00050	<0.30	0.410
L1984944-3	WQ27	Surface		8/30/2017	<0.000050	<0.0010	3.29	0.00423	<0.0000050	0.00102	<0.00050	<0.30	0.570
L1988832-2	WQ27	Surface		9/8/2017	<0.000050	<0.0010	3.04	0.00454	0.00000600	0.000924	<0.00050	<0.30	0.577
L1991279-2	WQ27	Surface	Dup	9/13/2017	<0.000050	<0.0010	2.80	0.00418	<0.0000050	0.000831	<0.00050	<0.30	0.544
L1991279-6	WQ27	Surface		9/13/2017	<0.000050	<0.0010	2.77	0.00412	<0.0000050	0.000833	<0.00050	<0.30	0.527
L1995655-2	WQ27	Surface		9/21/2017	<0.000050	<0.0010	2.13	0.00544	<0.0000050	0.000635	<0.00050	<0.30	0.440
L1999769-2	WQ27	Surface		9/28/2017	<0.000050	<0.0010	2.59	0.00376	<0.0000050	0.000741	<0.00050	<0.30	0.467
L2011329-3	WQ27	Surface		10/19/2017	<0.000050	<0.0010	1.57	0.00722	<0.0000050	0.000440	<0.00050	<0.30	0.395
L2020946-2	WQ27	Surface		11/8/2017	<0.000050	<0.0010	1.45	0.00457	<0.0000050	0.000424	<0.00050	<0.30	0.298
L2035356-2	WQ27	Surface		12/12/2017	<0.000050	<0.0010	1.73	0.00304	<0.0000050	0.000556	<0.00050	<0.30	0.354
L2049678-4	WQ27	Surface		1/24/2018	<0.000050	<0.0010	2.44	0.00265	<0.0000050	0.000735	<0.00050	<0.30	0.428
L2057605-2	WQ27	Surface		2/14/2018	<0.000050	<0.0010	2.36	0.00315	<0.0000050	0.000744	<0.00050	<0.30	0.434
L2074294-5	WQ27	Surface		3/28/2018	<0.000050	<0.0010	2.73	0.00208	<0.0000050	0.000820	<0.00050	<0.30	0.430
L2081503-6	WQ27	Surface		4/17/2018	<0.000050	<0.0010	2.47	0.00224	<0.0000050	0.000776	<0.00050	<0.30	0.429
L2093061-1	WQ27	Surface		5/9/2018	0.000320	<0.0010	0.692	0.0308	0.0000110	0.000210	0.000680	<0.30	0.472
L2097084-6	WQ27	Surface		5/16/2018	0.000146	<0.0010	0.595	0.0273	0.0000112	0.000219	<0.00050	<0.30	0.305
L2100419-3	WQ27	Surface	Dup	5/23/2018	0.0000540	<0.0010	0.691	0.00956	<0.0000050	0.000220	<0.00050	<0.30	0.260
L2100419-1	WQ27	Surface		5/23/2018	0.0000700	<0.0010	0.677	0.0103	<0.0000050	0.000223	<0.00050	<0.30	0.243
L2103632-5	WQ27	Surface		5/29/2018	<0.000050	<0.0010	0.815	0.00598	0.00000660	0.000265	<0.00050	<0.30	0.275
L2106738-3	WQ27	Surface	Dup	6/4/2018	0.0000540	<0.0010	0.882	0.00396	0.00000810	0.000271	<0.00050	<0.30	0.277
L2106738-1	WQ27	Surface		6/4/2018	<0.000050	<0.0010	0.897	0.00402	0.00000700	0.000282	<0.00050	<0.30	0.271
L2132986-4	WQ27	Surface		7/18/2018	0.0000540	<0.0010	1.89	0.00470	<0.0000050	0.000702	<0.00050	<0.30	0.465
L2143640-8	WQ27	Surface		8/7/2018	<0.000050	<0.0010	2.02	0.00462	<0.0000050	0.000684	<0.00050	<0.30	0.464
L2156026-4	WQ27	Surface	Dup	8/28/2018	<0.000050	<0.0010	2.57	0.00377	<0.0000050	0.000820	<0.00050	<0.30	0.514

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					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2156026-2	WQ27	Surface		8/28/2018	<0.000050	<0.0010	2.61	0.00405	<0.0000050	0.000834	<0.00050	<0.30	0.521
L2159605-2	WQ27	Surface		9/4/2018	<0.000050	<0.0010	2.66	0.00368	<0.0000050	0.000818	<0.00050	<0.30	0.443
L2160840-2	WQ27	Surface		9/7/2018	<0.000050	<0.0010	2.77	0.00330	<0.0000050	0.000874	<0.00050	<0.30	0.498
L2163669-4	WQ27	Surface		9/11/2018	<0.000050	<0.0010	2.42	0.00380	<0.0000050	0.000778	<0.00050	<0.30	0.476
L2188218-3	WQ27	Surface		10/26/2018	<0.000050	<0.0010	1.94	0.00263	<0.0000050	0.000571	<0.00050	<0.30	0.386
L2204508-6	WQ27	Surface	Dup	11/29/2018	<0.000050	<0.0010	1.44	0.00256	<0.0000050	0.000472	<0.00050	<0.30	0.322
L2204508-4	WQ27	Surface		11/29/2018	<0.000050	<0.0010	1.45	0.00273	0.00000540	0.000467	<0.00050	<0.30	0.332
L2213246-3	WQ27	Surface		12/18/2018	<0.000050	<0.0010	1.78	0.00250	<0.0000050	0.000591	<0.00050	<0.30	0.348
L2227701-3	WQ27	Surface		1/30/2019	<0.000050	<0.0010	2.19	0.00196	<0.0000050	0.000705	<0.00050	<0.30	0.394
L2232050-2	WQ27	Surface		2/11/2019	<0.000050	<0.0010	2.42	0.00177	<0.0000050	0.000772	<0.00050	<0.30	0.415
L2244756-3	WQ27	Surface		3/13/2019	<0.000050	<0.0010	2.81	0.00202	<0.0000050	0.000849	<0.00050	<0.30	0.440
L2256053-3	WQ27	Surface		4/8/2019	<0.000050	<0.0010	2.07	0.00280	0.00000670	0.000610	<0.00050	<0.30	0.456
L2269368-3	WQ27	Surface		5/4/2019	0.0000580	<0.0010	1.04	0.0123	0.00000800	0.000281	<0.00050	<0.30	0.426
L2274397-1	WQ27	Surface		5/14/2019	0.0000680	<0.0010	0.841	0.00708	0.00000690	0.000224	<0.00050	<0.30	0.339
L2277964-6	WQ27	Surface		5/21/2019	0.000145	<0.0010	0.698	0.0332	0.0000142	0.000183	0.000570	<0.30	0.356
L2282975-3	WQ27	Surface		5/29/2019	<0.000050	<0.0010	0.784	0.00585	0.00000830	0.000252	<0.00050	<0.30	0.306
L2285579-3	WQ27	Surface		6/3/2019	<0.000050	<0.0010	0.956	0.00437	0.00000810	0.000276	<0.00050	<0.30	0.305
L2312637-4	WQ27	Surface		7/16/2019	<0.000050	<0.0010	1.11	0.00574	0.00000690	0.000330	<0.00050	<0.30	0.272
L2326388-2	WQ27	Surface		8/8/2019	<0.000050	<0.0010	1.13	0.00608	<0.0000050	0.000323	<0.00050	<0.30	0.300
L2350223-2	WQ27	Surface		9/17/2019	<0.000050	<0.0010	1.47	0.00497	0.00000800	0.000461	<0.00050	<0.30	0.345
L2372667-2	WQ27	Surface		10/23/2019	<0.000050	<0.0010	1.23	0.00443	<0.0000050	0.000350	<0.00050	<0.30	0.303
L2383392-3	WQ27	Surface		11/14/2019	<0.000050	<0.0010	1.05	0.00395	<0.0000050	0.000307	<0.00050	<0.30	0.255
VA19A0726-002	WQ27	Surface		12/16/2019	0.0000960	<0.0010	1.43	0.00586	<0.0000050	0.000419	<0.00050	<0.050	0.311
VA20A0812-002	WQ27	Surface		1/23/2020	<0.000050	<0.0010	1.88	0.00310	<0.0000050	0.000556	<0.00050	<0.050	0.338
VA20A1887-005	WQ27	Surface		2/13/2020	<0.000050	<0.0010	2.16	0.00186	<0.0000050	0.000645	<0.00050	<0.050	0.377
VA20A3516-003	WQ27	Surface		3/16/2020	<0.000050	<0.0010	2.43	0.00229	<0.0000050	0.000726	<0.00050	<0.050	0.401
VA20A4369-002	WQ27	Surface		4/1/2020	<0.000050	<0.0010	2.52	0.00228	<0.0000050	0.000785	<0.00050	<0.050	0.411
L1913006-4	WQ28	Surface		4/11/2017	<0.000050	<0.0010	2.43	0.00272	<0.0000050	0.000842	<0.00050	<0.30	0.458
L1925486-2	WQ28	Surface		5/10/2017	0.0000540	<0.0010	0.967	0.0117	0.00000800	0.000220	<0.00050	<0.30	0.505
L1928943-3	WQ28	Surface		5/17/2017	<0.000050	<0.0010	0.888	0.00875	0.0000100	0.000207	<0.00050	<0.30	0.414
L1932034-4	WQ28	Surface	Dup	5/24/2017	0.0000720	<0.0010	0.738	0.0145	0.0000110	0.000180	<0.00050	<0.30	0.363
L1932034-1	WQ28	Surface		5/24/2017	0.0000810	<0.0010	0.728	0.0162	0.0000100	0.000180	<0.00050	<0.30	0.366
L1935151-3	WQ28	Surface		5/30/2017	0.0000610	<0.0010	0.582	0.0130	0.0000100	0.000202	<0.00050	<0.30	0.301
L1939712-1	WQ28	Surface		6/7/2017	<0.000050	<0.0010	0.784	0.00652	0.00000600	0.000261	<0.00050	<0.30	0.286
L1961670-5	WQ28	Surface	Dup	7/18/2017	<0.000050	<0.0010	1.85	0.00376	<0.0000050	0.000602	<0.00050	<0.30	0.369
L1961670-4	WQ28	Surface		7/18/2017	<0.000050	<0.0010	1.74	0.00345	<0.0000050	0.000614	<0.00050	<0.30	0.370
L1984944-2	WQ28	Surface		8/30/2017	<0.000050	<0.0010	3.29	0.00339	<0.0000050	0.00105	<0.00050	<0.30	0.560
L1988832-3	WQ28	Surface		9/8/2017	<0.000050	<0.0010	2.91	0.00381	0.00000600	0.000866	<0.00050	<0.30	0.541
L1991279-1	WQ28	Surface		9/13/2017	<0.000050	<0.0010	2.73	0.00400	<0.0000050	0.000817	<0.00050	<0.30	0.532
L1995655-3	WQ28	Surface	Dup	9/21/2017	<0.000050	<0.0010	2.02	0.00546	<0.0000050	0.000640	<0.00050	<0.30	0.422
L1995655-5	WQ28	Surface		9/21/2017	<0.000050	<0.0010	1.99	0.00524	<0.0000050	0.000628	<0.00050	<0.30	0.418
L1999769-3	WQ28	Surface	Dup	9/28/2017	<0.000050	<0.0010	2.56	0.00358	<0.0000050	0.000738	<0.00050	<0.30	0.465
L1999769-4	WQ28	Surface		9/28/2017	<0.000050	<0.0010	2.53	0.00355	<0.0000050	0.000712	<0.00050	<0.30	0.454
L2011329-4	WQ28	Surface		10/19/2017	<0.000050	<0.0010	1.46	0.00744	<0.0000050	0.000413	<0.00050	<0.30	0.388

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					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2020946-3	WQ28	Surface		11/8/2017	<0.000050	<0.0010	1.35	0.00372	<0.0000050	0.000487	<0.00050	<0.30	0.279
L2035356-1	WQ28	Surface		12/12/2017	<0.000050	<0.0010	1.66	0.00349	<0.0000050	0.000555	<0.00050	<0.30	0.336
L2049678-5	WQ28	Surface		1/24/2018	<0.000050	<0.0010	2.30	0.00266	<0.0000050	0.000669	<0.00050	<0.30	0.405
L2057605-3	WQ28	Surface		2/14/2018	<0.000050	<0.0010	2.33	0.00561	<0.0000050	0.000749	<0.00050	<0.30	0.428
L2074294-6	WQ28	Surface		3/28/2018	<0.000050	<0.0010	2.55	0.00210	<0.0000050	0.000836	<0.00050	<0.30	0.407
L2081503-7	WQ28	Surface		4/17/2018	<0.000050	<0.0010	2.58	0.00308	<0.0000050	0.000791	<0.00050	<0.30	0.434
L2093061-3	WQ28	Surface	Dup	5/9/2018	0.000301	<0.0010	0.693	0.0362	0.0000111	0.000189	0.000680	<0.30	0.473
L2093061-2	WQ28	Surface		5/9/2018	0.000273	<0.0010	0.687	0.0370	0.0000117	0.000194	0.000690	<0.30	0.467
L2097084-7	WQ28	Surface		5/16/2018	0.000137	<0.0010	0.570	0.0173	0.0000105	0.000185	<0.00050	<0.30	0.305
L2100419-2	WQ28	Surface		5/23/2018	<0.000050	<0.0010	0.663	0.00923	<0.0000050	0.000247	<0.00050	<0.30	0.241
L2103632-6	WQ28	Surface		5/29/2018	0.0000530	<0.0010	0.813	0.00628	0.00000730	0.000262	<0.00050	<0.30	0.260
L2106738-2	WQ28	Surface		6/4/2018	<0.000050	<0.0010	0.839	0.00422	0.00000900	0.000272	<0.00050	<0.30	0.257
L2132986-3	WQ28	Surface		7/18/2018	<0.000050	<0.0010	1.75	0.00538	<0.0000050	0.000632	<0.00050	<0.30	0.403
L2143640-7	WQ28	Surface		8/7/2018	<0.000050	<0.0010	1.98	0.00428	<0.0000050	0.000681	<0.00050	<0.30	0.456
L2156026-3	WQ28	Surface		8/28/2018	<0.000050	<0.0010	2.57	0.00389	<0.0000050	0.000901	<0.00050	<0.30	0.523
L2159605-4	WQ28	Surface	Dup	9/4/2018	<0.000050	<0.0010	2.60	0.00320	<0.0000050	0.000828	<0.00050	<0.30	0.454
L2159605-3	WQ28	Surface		9/4/2018	<0.000050	<0.0010	2.54	0.00333	0.00000560	0.000827	<0.00050	<0.30	0.449
L2160840-3	WQ28	Surface		9/7/2018	<0.000050	<0.0010	2.70	0.00292	<0.0000050	0.000826	<0.00050	<0.30	0.482
L2163669-5	WQ28	Surface		9/11/2018	<0.000050	<0.0010	2.40	0.00391	<0.0000050	0.000753	<0.00050	<0.30	0.476
L2188218-2	WQ28	Surface		10/26/2018	<0.000050	<0.0010	1.89	0.00286	<0.0000050	0.000576	<0.00050	<0.30	0.372
L2204508-5	WQ28	Surface		11/29/2018	<0.000050	<0.0010	1.39	0.00324	<0.0000050	0.000470	<0.00050	<0.30	0.316
L2213246-4	WQ28	Surface		12/18/2018	<0.000050	<0.0010	1.72	0.00295	<0.0000050	0.000588	<0.00050	<0.30	0.349
L2227701-4	WQ28	Surface		1/30/2019	<0.000050	<0.0010	2.11	0.00239	<0.0000050	0.000687	<0.00050	<0.30	0.393
L2232050-3	WQ28	Surface		2/11/2019	<0.000050	<0.0010	2.37	0.00222	<0.0000050	0.000782	<0.00050	<0.30	0.408
L2244756-4	WQ28	Surface		3/13/2019	<0.000050	<0.0010	2.79	0.00184	<0.0000050	0.000894	<0.00050	<0.30	0.446
L2256053-4	WQ28	Surface		4/8/2019	<0.000050	<0.0010	2.87	0.00486	<0.0000050	0.000622	<0.00050	<0.30	0.592
L2269368-4	WQ28	Surface		5/4/2019	0.0000510	<0.0010	0.997	0.0115	0.00000840	0.000253	<0.00050	<0.30	0.421
L2274397-2	WQ28	Surface		5/14/2019	<0.000050	<0.0010	0.819	0.00680	0.00000690	0.000221	<0.00050	<0.30	0.332
L2277964-8	WQ28	Surface	Dup	5/21/2019	0.0000900	<0.0010	0.636	0.0230	0.0000140	0.000158	<0.00050	<0.30	0.315
L2277964-5	WQ28	Surface		5/21/2019	0.000101	<0.0010	0.646	0.0258	0.0000138	0.000167	<0.00050	<0.30	0.322
L2282975-6	WQ28	Surface	Dup	5/29/2019	<0.000050	<0.0010	0.768	0.00588	0.00000740	0.000244	<0.00050	<0.30	0.292
L2282975-4	WQ28	Surface		5/29/2019	<0.000050	<0.0010	0.747	0.00610	0.00000750	0.000229	<0.00050	<0.30	0.291
L2285579-4	WQ28	Surface		6/3/2019	<0.000050	<0.0010	0.926	0.00517	0.00000770	0.000241	<0.00050	<0.30	0.298
L2312637-5	WQ28	Surface		7/16/2019	<0.000050	<0.0010	1.03	0.00641	0.00000680	0.000316	<0.00050	<0.30	0.252
L2326388-4	WQ28	Surface		8/8/2019	<0.000050	<0.0010	1.16	0.00781	<0.0000050	0.000346	<0.00050	<0.30	0.302
L2350223-3	WQ28	Surface		9/17/2019	<0.000050	<0.0010	1.53	0.00444	0.00000620	0.000492	<0.00050	<0.30	0.346
L2372667-3	WQ28	Surface		10/23/2019	<0.000050	<0.0010	1.20	0.00474	<0.0000050	0.000356	<0.00050	<0.30	0.305
L2383392-4	WQ28	Surface		11/14/2019	<0.000050	<0.0010	1.03	0.00485	<0.0000050	0.000310	<0.00050	<0.30	0.252
VA19A0726-003	WQ28	Surface		12/16/2019	<0.000050	<0.0010	1.40	0.00359	0.00000540	0.000419	<0.00050	<0.050	0.311
VA20A0812-003	WQ28	Surface		1/23/2020	<0.000050	<0.0010	1.91	0.00308	<0.0000050	0.000544	<0.00050	<0.050	0.344
VA20A1887-004	WQ28	Surface		2/13/2020	<0.000050	<0.0010	2.12	0.00252	<0.0000050	0.000598	<0.00050	<0.050	0.382
VA20A3516-004	WQ28	Surface		3/16/2020	<0.000050	<0.0010	2.37	0.00252	<0.0000050	0.000790	<0.00050	<0.050	0.403
VA20A4369-003	WQ28	Surface		4/1/2020	<0.000050	<0.0010	2.46	0.00344	<0.0000050	0.00105	<0.00050	<0.050	0.404
VA20A6356-004	WQ28	Surface		5/11/2020	0.0000660	<0.0010	0.765	0.0129	0.00000660	0.000205	<0.00050	<0.050	0.330

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Lead (Pb)-Total	Lithium (Li)-Total	Magnesium (Mg)-Total	Manganese (Mn)-Total	Mercury (Hg)-Total	Molybdenum (Mo)-Total	Nickel (Ni)-Total	Phosphorus (P)-Total	Potassium (K)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
VA20B2426-005	WQ28	Surface		8/10/2020	<0.000050	<0.0010	1.62	0.00563	<0.0000050	0.000553	<0.00050	<0.050	0.354
VA20C0197-004	WQ28	Surface		11/4/2020	0.0000600	<0.0010	0.848	0.0112	0.0000100	0.000200	<0.00050	<0.050	0.307
L2238112-1	WQ29	Surface		2/26/2019	<0.000050	<0.0010	5.10	0.0337	<0.0000050	0.000686	<0.00050	<0.30	0.885
L2278768-1	WQ29	Surface		5/22/2019	0.0000800	<0.0010	3.03	0.0433	<0.0000050	0.000514	0.000530	<0.30	0.852
L2325935-4	WQ29	Surface	Dup	8/7/2019	<0.000050	<0.0010	4.26	0.0320	<0.0000050	0.000611	<0.00050	<0.30	0.628
L2325935-2	WQ29	Surface		8/7/2019	<0.000050	<0.0010	4.33	0.0334	<0.0000050	0.000643	<0.00050	<0.30	0.636
L2388381-6	WQ29	Surface	Dup	11/25/2019	<0.000050	<0.0010	3.63	0.0366	<0.0000050	0.000542	<0.00050	<0.30	0.670
L2388381-5	WQ29	Surface		11/25/2019	<0.000050	<0.0010	3.63	0.0374	<0.0000050	0.000529	<0.00050	<0.30	0.680
VA20A1056-001	WQ29	Surface		1/28/2020	<0.000050	<0.0010	5.22	0.0317	<0.0000050	0.000611	<0.00050	<0.050	0.864
VA20A1776-001	WQ29	Surface		2/2/2020	<0.000050	<0.0010	5.14	0.0304	<0.0000050	0.000774	<0.00050	<0.050	0.860
VA20A3580-003	WQ29	Surface	Dup	3/17/2020	<0.000050	<0.0010	4.97	0.0254	<0.0000050	0.000707	<0.00050	<0.050	0.849
VA20A3580-001	WQ29	Surface		3/17/2020	<0.000050	<0.0010	4.94	0.0252	<0.0000050	0.000782	<0.00050	<0.050	0.833
VA20A4424-003	WQ29	Surface	Dup	4/2/2020	<0.000050	<0.0010	5.65	0.0338	<0.0000050	0.000731	<0.00050	<0.050	0.890
VA20A4424-001	WQ29	Surface		4/2/2020	<0.000050	<0.0010	5.33	0.0346	<0.0000050	0.000845	<0.00050	<0.050	0.884
VA20A6114-001	WQ29	Surface		5/6/2020	<0.000050	<0.0010	3.75	0.0162	<0.0000050	0.000534	<0.00050	<0.050	0.759
VA20A6503-001	WQ29	Surface		5/13/2020	<0.000050	<0.0010	3.54	0.0216	<0.0000050	0.000526	<0.00050	<0.050	0.734
VA20A6869-004	WQ29	Surface		5/20/2020	<0.000050	<0.0010	3.06	0.0210	<0.0000050	0.000504	<0.00050	<0.050	0.623
VA20A7367-004	WQ29	Surface		5/28/2020	0.0000590	<0.0010	3.84	0.0350	<0.0000050	0.000492	<0.00050	<0.050	0.678
VA20A7797-001	WQ29	Surface		6/3/2020	<0.000050	<0.0010	3.76	0.0370	<0.0000050	0.000682	<0.00050	<0.050	0.734
VA20B0021-001	WQ29	Surface		7/7/2020	<0.000050	<0.0010	3.81	0.0262	<0.0000050	0.000575	<0.00050	<0.050	0.641
VA20B2012-001	WQ29	Surface		8/4/2020	<0.000050	<0.0010	4.50	0.0348	<0.0000050	0.000770	<0.00050	<0.050	0.770
VA20B2542-001	WQ29	Surface		8/11/2020	<0.000050	<0.0010	4.97	0.0371	<0.0000050	0.000800	<0.00050	<0.050	0.808
VA20B3033-001	WQ29	Surface		8/17/2020	<0.000050	<0.0010	4.74	0.0414	<0.0000050	0.000824	<0.00050	0.0860	0.939
VA20B3860-001	WQ29	Surface		8/26/2020	<0.000050	<0.0010	4.63	0.0368	<0.0000050	0.000818	<0.00050	<0.050	0.848
VA20B4443-001	WQ29	Surface		9/2/2020	<0.000050	<0.0010	4.42	0.0288	<0.0000050	0.000808	<0.00050	<0.050	0.845
VA20B7828-004	WQ29	Surface	Dup	10/8/2020	<0.000050	<0.0010	4.73	0.0401	<0.0000050	0.000821	<0.00050	<0.050	0.859
VA20B7828-001	WQ29	Surface		10/8/2020	<0.000050	<0.0010	4.90	0.0446	<0.0000050	0.000830	<0.00050	<0.050	0.893
VA20B9945-001	WQ29	Surface		11/2/2020	<0.000050	<0.0010	3.32	0.0313	<0.0000050	0.000516	<0.00050	<0.050	0.774
	WQ3	Surface		5/17/2011	0.000210	< 0.001	1.59	0.0321	0.0000130	0.000270	0.000540	0.0700	0.700
	WQ3	Surface		5/25/2011	0.0000600	< 0.001	1.11	0.00621	0.0000100	0.000220	0.000370	0.0400	< 0.5
	WQ3	Surface		5/31/2011	< 0.00005	< 0.001	0.980	0.00340	0.00000800	0.000260	0.000300	0.0200	< 0.5
	WQ3	Surface		6/7/2011	< 0.00005	< 0.001	1.11	0.00358	< 0.000008	0.000260	0.000230	0.0200	< 0.5
	WQ3	Surface		6/14/2011	< 0.00005	< 0.001	1.42	0.00427	< 0.000008	0.000320	0.000220	0.0200	< 0.5
	WQ3	Surface		7/19/2011	< 0.00005	< 0.001	1.67	0.00560	< 0.000008	0.000370	0.000140	0.0200	< 0.5
	WQ3	Surface		8/16/2011	0.0000500	< 0.001	2.45	0.0152	< 0.000008	0.000540	0.000160	0.0400	< 0.5
	WQ3	Surface		9/20/2011	< 0.00005	< 0.001	2.88	0.0134	< 0.000008	0.000720	0.0000800	0.0500	0.500
	WQ3	Surface		10/18/2011	< 0.00005	< 0.001	2.75	0.00634	0.00000900	0.000620	< 0.00005	0.0400	0.500
	WQ3	Surface		11/15/2011	< 0.00005	< 0.001	2.80	0.00677	< 0.000008	0.000780	0.0000700	0.0400	< 0.5
	WQ3	Surface		12/12/2011	< 0.00005	< 0.001	3.12	0.00587	< 0.000008	0.000810	< 0.00005	0.0400	0.500
	WQ3	Surface		1/12/2012	0.000840	0.00100	3.00	0.00655	< 0.000008	0.000780	0.0000800	0.0400	0.600
	WQ3	Surface		2/13/2012	0.0000700	< 0.001	3.03	0.0208	< 0.000008	0.000830	0.000100	0.0600	0.600
	WQ3	Surface		3/12/2012	< 0.00005	< 0.001	3.22	0.00438	< 0.000008	0.000880	< 0.00005	0.0400	0.600
	WQ3	Surface		4/16/2012	< 0.00005	< 0.001	3.25	0.00444	< 0.000008	0.000700	0.0000600	0.0500	0.700
	WQ3	Surface		5/14/2012	0.000170	< 0.001	1.58	0.0145	< 0.000005	0.000290	0.000290	0.0400	0.500

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					Lead (Pb)-Total	Lithium (Li)-Total	Magnesium (Mg)-Total	Manganese (Mn)-Total	Mercury (Hg)-Total	Molybdenum (Mo)-Total	Nickel (Ni)-Total	Phosphorus (P)-Total	Potassium (K)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ3	Surface		5/22/2012	0.000100	< 0.001	1.47	0.0123	< 0.000005	0.000290	0.0000700	0.0400	< 0.5
	WQ3	Surface		5/29/2012	< 0.00005	< 0.001	1.41	0.00384	< 0.000005	0.000280	< 0.00005	< 0.02	< 0.5
	WQ3	Surface		6/5/2012	0.000320	< 0.001	1.41	0.00674	< 0.000005	0.000300	0.000190	0.0200	< 0.5
	WQ3	Surface		6/12/2012	< 0.00005	< 0.001	1.58	0.00623	< 0.000005	0.000280	0.000190	0.200	< 0.5
	WQ3	Surface		6/19/2012	< 0.00005	< 0.001	1.76	0.00689	< 0.000005	0.000370	0.00280	0.0200	< 0.5
	WQ3	Surface		7/17/2012	< 0.00005	< 0.001	2.41	0.00744	< 0.000005	0.000650	0.0000900	0.0300	< 0.5
	WQ3	Surface		8/14/2012	< 0.00005	< 0.001	2.75	0.00825	< 0.000005	0.000670	0.000100	0.0400	0.600
	WQ3	Surface		9/18/2012	< 0.00005	< 0.001	2.93	0.00870	< 0.000005	0.000820	0.000140	0.0500	0.600
	WQ3	Surface		10/15/2012	< 0.00005	< 0.001	3.02	0.00697	< 0.000005	0.000810	< 0.00005	0.0400	0.600
	WQ3	Surface		11/13/2012	0.0000700	< 0.001	3.18	0.00653	< 0.000005	0.000710	< 0.00005	0.0500	0.500
	WQ3	Surface		12/10/2012	< 0.00005	< 0.001	5.11	0.0373	< 0.000005	0.000760	0.000210	0.0200	0.900
	WQ3	Surface		1/13/2013	< 0.00005	< 0.001	3.26	0.00555	< 0.000005	0.000800	< 0.00005	0.0500	0.600
	WQ3	Surface		2/12/2013	< 0.00005	< 0.001	3.32	0.00637	< 0.000005	0.000800	< 0.00005	0.0500	0.600
	WQ3	Surface		3/11/2013	< 0.00005	< 0.001	3.35	0.00545	< 0.000005	0.000900	0.0000600	0.0500	0.600
	WQ3	Surface		4/15/2013	0.0000900	< 0.001	2.95	0.0263	< 0.000005	0.000830	0.000170	0.0500	0.500
	WQ3	Surface		5/13/2013	0.0000500	< 0.001	1.48	0.00712	< 0.000005	0.000260	0.000390	0.0300	0.500
	WQ3	Surface		5/22/2013	< 0.00005	< 0.001	1.42	0.00841	< 0.000005	0.000290	0.000240	0.0200	< 0.5
	WQ3	Surface		5/27/2013	< 0.00005	< 0.001	1.54	0.00657	< 0.000005	0.000300	0.0000700	< 0.01	< 0.5
	WQ3	Surface		6/6/2013	< 0.00005	< 0.001	1.42	0.00593	< 0.000005	0.000290	0.000300	0.0300	< 0.5
	WQ3	Surface		6/10/2013	< 0.00005	< 0.001	1.68	0.00689	< 0.000005	0.000450	0.000200	0.0400	< 0.5
	WQ3	Surface		6/17/2013	0.0000500	< 0.001	1.57	0.00650	< 0.000005	0.000320	0.00392	0.0300	< 0.5
	WQ3	Surface	Dup	4/13/2014	<0.00005	<0.001	2.94	0.00474	<0.000005	0.000750	0.0000800	0.0400	0.500
	WQ3	Surface		4/13/2014	< 0.00005	< 0.001	2.91	0.00492	< 0.000005	0.000770	0.000140	0.0400	0.500
	WQ3	Surface		7/2/2014	<0.00005	<0.001	2.47	0.00722	<0.000005	0.000360	<0.00005	0.0300	<0.5
	WQ3	Surface		9/24/2014	<0.00005	<0.001	3.39	0.0105	<0.000005	0.000870	0.000110	0.0600	1.00
	WQ3	Surface		12/9/2014	<0.00005	<0.001	3.19	0.00589	<0.000005	0.000880	0.0000900	0.0500	0.600
L1926080-7	WQ3	Surface		5/11/2017	0.000125	<0.0010	2.15	0.0247	0.00000800	0.000386	<0.00050	<0.30	0.725
L1962414-1	WQ3	Surface		7/19/2017	<0.000050	<0.0010	1.79	0.00878	<0.0000050	0.00122	<0.00050	<0.30	0.416
L1988190-1	WQ3	Surface		9/6/2017	<0.000050	<0.0010	3.04	0.0126	<0.0000050	0.00123	<0.00050	<0.30	0.621
L2010514-1	WQ3	Surface		10/18/2017	0.000292	<0.0010	2.58	0.0676	<0.0000050	0.000744	0.000620	<0.30	0.659
L2060442-1	WQ3	Surface		2/23/2018	<0.000050	<0.0010	3.09	0.00847	<0.0000050	0.000882	<0.00050	<0.30	0.502
L2103632-1	WQ3	Surface		5/29/2018	<0.000050	<0.0010	1.54	0.00912	0.00000830	0.000513	<0.00050	<0.30	0.378
L2143640-2	WQ3	Surface		8/7/2018	<0.000050	<0.0010	2.73	0.0178	<0.0000050	0.00108	<0.00050	<0.30	0.592
L2204508-2	WQ3	Surface		11/29/2018	<0.000050	<0.0010	2.33	0.0150	<0.0000050	0.000645	<0.00050	<0.30	0.458
L2232772-1	WQ3	Surface		2/12/2019	<0.000050	<0.0010	2.70	0.0123	<0.0000050	0.000772	<0.00050	<0.30	0.462
L2273497-2	WQ3	Surface		5/13/2019	<0.000050	<0.0010	1.55	0.0112	0.00000600	0.000466	<0.00050	<0.30	0.480
L2328474-1	WQ3	Surface		8/12/2019	<0.000050	<0.0010	1.80	0.0146	<0.0000050	0.000483	<0.00050	<0.30	0.372
L2385426-1	WQ3	Surface		11/18/2019	0.0000780	<0.0010	1.53	0.0101	0.00000580	0.000428	<0.00050	<0.30	0.339
VA20A1830-002	WQ3	Surface		2/12/2020	<0.000050	<0.0010	2.46	0.0103	<0.0000050	0.000738	<0.00050	<0.050	0.478
VA20A6574-001	WQ3	Surface		5/14/2020	<0.000050	<0.0010	1.31	0.00787	0.00000520	0.000349	<0.00050	<0.050	0.378
VA20B2692-002	WQ3	Surface		8/12/2020	<0.000050	<0.0010	2.74	0.00856	<0.0000050	0.000749	<0.00050	<0.050	0.482
VA20C1166-001	WQ3	Surface		11/17/2020	0.0000580	<0.0010	1.79	0.0149	0.00000500	0.000441	<0.00050	<0.050	0.335
L2239149-1	WQ30	Surface		2/28/2019	<0.000050	<0.0010	5.81	0.0319	<0.0000050	0.000834	<0.00050	<0.30	0.922
L2278768-2	WQ30	Surface		5/22/2019	0.000101	<0.0010	3.12	0.0516	<0.0000050	0.000501	0.000590	<0.30	0.905

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Lead (Pb)-Total	Lithium (Li)-Total	Magnesium (Mg)-Total	Manganese (Mn)-Total	Mercury (Hg)-Total	Molybdenum (Mo)-Total	Nickel (Ni)-Total	Phosphorus (P)-Total	Potassium (K)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2325935-1	WQ30	Surface		8/7/2019	<0.000050	<0.0010	4.24	0.0306	<0.0000050	0.000631	<0.00050	<0.30	0.638
L2385426-3	WQ30	Surface		11/18/2019	<0.000050	<0.0010	3.82	0.0422	<0.0000050	0.000514	<0.00050	<0.30	0.684
VA20A1056-002	WQ30	Surface		1/28/2020	<0.000050	<0.0010	5.80	0.0326	<0.0000050	0.00104	<0.00050	<0.050	0.897
VA20A1776-002	WQ30	Surface		2/2/2020	<0.000050	<0.0010	5.46	0.0277	<0.0000050	0.000724	<0.00050	<0.050	0.853
VA20A3580-002	WQ30	Surface		3/17/2020	<0.000050	<0.0010	5.31	0.0216	<0.0000050	0.000733	<0.00050	<0.050	0.860
VA20A4424-002	WQ30	Surface		4/2/2020	<0.000050	<0.0010	6.13	0.0356	<0.0000050	0.000831	<0.00050	<0.050	0.967
VA20A6114-002	WQ30	Surface		5/6/2020	<0.000050	<0.0010	3.76	0.0160	<0.0000050	0.000478	<0.00050	<0.050	0.776
VA20A6503-005	WQ30	Surface	Dup	5/13/2020	<0.000050	<0.0010	3.48	0.0192	<0.0000050	0.000449	<0.00050	<0.050	0.733
VA20A6503-002	WQ30	Surface		5/13/2020	<0.000050	<0.0010	3.62	0.0205	<0.0000050	0.000516	<0.00050	<0.050	0.761
VA20A6869-005	WQ30	Surface		5/20/2020	<0.000050	<0.0010	3.20	0.0220	<0.0000050	0.000491	<0.00050	<0.050	0.624
VA20A7367-005	WQ30	Surface		5/28/2020	0.0000590	<0.0010	3.81	0.0364	<0.0000050	0.000490	<0.00050	<0.050	0.659
VA20A7797-002	WQ30	Surface		6/3/2020	0.0000640	<0.0010	3.95	0.0459	<0.0000050	0.000597	<0.00050	<0.050	0.725
VA20B0021-002	WQ30	Surface		7/7/2020	0.0000690	<0.0010	3.82	0.0337	<0.0000050	0.000567	<0.00050	<0.050	0.637
VA20B2012-002	WQ30	Surface		8/4/2020	<0.000050	<0.0010	4.90	0.0388	<0.0000050	0.000866	<0.00050	<0.050	0.794
VA20B2542-002	WQ30	Surface		8/11/2020	<0.000050	<0.0010	5.23	0.0361	<0.0000050	0.000850	<0.00050	<0.050	0.818
VA20B3033-002	WQ30	Surface		8/17/2020	<0.000050	<0.0010	4.73	0.0374	<0.0000050	0.000849	<0.00050	<0.050	0.801
VA20B3860-006	WQ30	Surface	Dup	8/26/2020	<0.000050	<0.0010	5.09	0.0338	<0.0000050	0.000825	<0.00050	<0.050	0.845
VA20B3860-002	WQ30	Surface		8/26/2020	<0.000050	<0.0010	5.12	0.0346	<0.0000050	0.000825	<0.00050	<0.050	0.865
VA20B4443-002	WQ30	Surface		9/2/2020	<0.000050	<0.0010	4.72	0.0268	<0.0000050	0.000826	<0.00050	<0.050	0.861
VA20B7828-002	WQ30	Surface		10/8/2020	<0.000050	<0.0010	5.12	0.0378	<0.0000050	0.000863	<0.00050	<0.050	0.895
VA20B9945-002	WQ30	Surface		11/2/2020	<0.000050	<0.0010	3.41	0.0290	<0.0000050	0.000470	<0.00050	<0.050	0.792
VA20A0688-001	WQ31	Surface		1/21/2020	<0.000050	<0.0010	1.15	0.00372	<0.0000050	0.000270	<0.00050	<0.050	0.234
VA20A1887-003	WQ31	Surface		2/13/2020	<0.000050	<0.0010	1.33	0.00308	<0.0000050	0.000352	<0.00050	<0.050	0.220
VA20A3516-005	WQ31	Surface		3/16/2020	<0.000050	<0.0010	1.46	0.00300	<0.0000050	0.000488	<0.00050	<0.050	0.231
VA20A4369-004	WQ31	Surface		4/1/2020	<0.000050	<0.0010	1.51	0.00277	<0.0000050	0.000508	<0.00050	<0.050	0.220
VA20A6356-005	WQ31	Surface		5/11/2020	0.0000510	<0.0010	0.684	0.0105	0.00000770	0.000125	<0.00050	<0.050	0.280
VA20A7672-005	WQ31	Surface	Dup	6/2/2020	<0.000050	<0.0010	0.730	0.00298	0.00000590	0.000124	<0.00050	<0.050	0.175
VA20A7672-001	WQ31	Surface		6/2/2020	<0.000050	<0.0010	0.719	0.00197	0.00000960	0.000132	<0.00050	<0.050	0.171
VA20A9918-004	WQ31	Surface		7/6/2020	<0.000050	<0.0010	0.850	0.00455	<0.0000050	0.000211	<0.00050	<0.050	0.172
VA20B2426-002	WQ31	Surface		8/10/2020	<0.000050	<0.0010	1.09	0.00555	<0.0000050	0.000220	<0.00050	<0.050	0.193
VA20B4313-004	WQ31	Surface	Dup	9/1/2020	<0.000050	<0.0010	1.21	0.00534	<0.0000050	0.000250	<0.00050	<0.050	0.233
VA20B4313-002	WQ31	Surface		9/1/2020	<0.000050	<0.0010	1.20	0.00500	<0.0000050	0.000262	<0.00050	<0.050	0.231
VA20B7624-005	WQ31	Surface		10/6/2020	<0.000050	<0.0010	1.25	0.00527	<0.0000050	0.000304	<0.00050	<0.050	0.292
VA20C0197-001	WQ31	Surface		11/4/2020	<0.000050	<0.0010	0.775	0.00803	0.00000840	0.0000900	<0.00050	<0.050	0.202
	WQ4	Surface		5/17/2011	0.0000800	< 0.001	1.00	0.0165	0.00000900	< 0.00005	0.000390	< 0.02	0.600
	WQ4	Surface		5/24/2011	0.0000800	< 0.001	0.900	0.0137	0.0000110	< 0.00005	0.000390	< 0.02	< 0.5
	WQ4	Surface		5/30/2011	< 0.00005	< 0.001	0.720	0.00690	< 0.000008	< 0.00005	0.000350	< 0.02	< 0.5
	WQ4	Surface		6/6/2011	< 0.00005	< 0.001	0.610	0.00403	< 0.000008	0.0000500	0.000290	< 0.02	< 0.5
	WQ4	Surface		6/13/2011	< 0.00005	< 0.001	0.700	0.00326	< 0.000008	< 0.00005	0.000290	< 0.02	< 0.5
	WQ4	Surface		7/18/2011	< 0.00005	< 0.001	0.850	0.00498	< 0.000008	< 0.00005	0.000270	< 0.02	< 0.5
	WQ4	Surface		8/15/2011	0.000250	< 0.001	1.06	0.0330	< 0.000008	0.000100	0.000340	< 0.02	< 0.5
	WQ4	Surface		9/19/2011	< 0.00005	< 0.001	1.22	0.0241	< 0.000008	0.000160	< 0.00005	< 0.02	< 0.5
	WQ4	Surface		10/17/2011	< 0.00005	< 0.001	1.03	0.0116	< 0.000008	0.0000600	0.000100	< 0.02	< 0.5
	WQ4	Surface		11/14/2011	0.000200	< 0.001	1.01	0.0699	< 0.000008	0.0000900	0.000260	< 0.02	< 0.5

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Lead (Pb)-Total	Lithium (Li)-Total	Magnesium (Mg)-Total	Manganese (Mn)-Total	Mercury (Hg)-Total	Molybdenum (Mo)-Total	Nickel (Ni)-Total	Phosphorus (P)-Total	Potassium (K)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ4	Surface	Dup	5/15/2012	0.000920	< 0.001	1.20	0.0334	< 0.000005	< 0.00005	0.000350	0.0300	0.700
	WQ4	Surface		5/15/2012	0.000930	< 0.001	1.18	0.0338	< 0.000005	< 0.00005	0.000440	0.0300	0.700
	WQ4	Surface		5/23/2012	0.000640	< 0.001	0.940	0.0456	< 0.000005	< 0.00005	0.000260	0.0200	< 0.5
	WQ4	Surface		5/28/2012	0.000130	< 0.001	0.820	0.00538	< 0.000005	< 0.00005	< 0.00005	< 0.02	< 0.5
	WQ4	Surface		6/4/2012	< 0.00005	< 0.001	0.760	0.0243	< 0.000005	< 0.00005	0.000290	< 0.02	< 0.5
	WQ4	Surface		6/11/2012	< 0.00005	< 0.001	0.820	0.00360	< 0.000005	< 0.00005	0.000320	< 0.02	< 0.5
	WQ4	Surface		6/18/2012	< 0.00005	< 0.001	0.790	0.00135	< 0.000005	0.0000600	0.000280	< 0.02	< 0.5
	WQ4	Surface		7/16/2012	< 0.00005	< 0.001	1.01	0.0197	< 0.000005	0.000130	0.000310	< 0.02	< 0.5
	WQ4	Surface		8/13/2012	0.000120	< 0.001	1.25	0.0323	< 0.000005	0.000190	0.000290	< 0.02	< 0.5
	WQ4	Surface		9/17/2012	< 0.00005	< 0.001	1.27	0.0400	< 0.000005	0.000200	0.000240	< 0.02	< 0.5
	WQ4	Surface		10/16/2012	0.00341	< 0.001	1.81	0.107	0.0000140	0.000160	0.000510	0.0500	0.800
	WQ4	Surface		11/12/2012	0.000120	< 0.001	2.05	0.0207	< 0.000005	0.0000900	0.000430	< 0.02	0.600
	WQ4	Surface		12/10/2012	0.000990	< 0.001	2.95	0.182	< 0.000005	0.000210	0.000600	0.0300	0.700
	WQ4	Surface		5/14/2013	0.000280	< 0.001	0.890	0.00786	< 0.000005	0.0000600	0.000390	0.0100	0.800
	WQ4	Surface		5/21/2013	0.000130	< 0.001	0.970	0.00589	< 0.000005	0.0000700	0.000410	0.0200	0.900
	WQ4	Surface		5/28/2013	0.000130	< 0.001	1.11	0.00389	< 0.000005	0.000100	0.000220	< 0.01	1.10
	WQ4	Surface		6/4/2013	0.0000700	< 0.001	1.05	0.00567	< 0.000005	0.000100	0.000330	0.0100	0.900
	WQ4	Surface		6/11/2013	< 0.00005	< 0.001	1.22	0.00297	< 0.000005	0.000120	0.000360	< 0.01	0.900
	WQ4	Surface		6/18/2013	0.0000700	< 0.001	1.05	0.00750	< 0.000005	0.000100	0.000300	0.0100	0.800
L1925102-1	WQ4	Surface		5/9/2017	0.000187	<0.0010	1.03	0.357	0.00000900	0.000151	0.000610	<0.30	0.783
L1961670-1	WQ4	Surface		7/18/2017	<0.000050	<0.0010	1.66	0.0283	<0.0000050	0.000220	0.000880	<0.30	0.267
L2011329-1	WQ4	Surface		10/19/2017	0.0000520	<0.0010	2.22	0.0157	<0.0000050	0.000123	<0.00050	<0.30	0.770
L2060101-1	WQ4	Surface		2/22/2018	0.000118	<0.0010	2.72	0.0492	<0.0000050	0.000296	<0.00050	<0.30	0.431
L2102737-1	WQ4	Surface		5/28/2018	<0.000050	<0.0010	0.916	0.0141	<0.0000050	0.0000880	<0.00050	<0.30	0.338
L2144658-3	WQ4	Surface		8/8/2018	<0.000050	<0.0010	1.26	0.0154	<0.0000050	0.000173	<0.00050	<0.30	0.209
L2204086-2	WQ4	Surface		11/28/2018	<0.000050	<0.0010	0.957	0.0118	<0.0000050	0.0000920	<0.00050	<0.30	0.181
L2233329-1	WQ4	Surface		2/13/2019	0.000129	<0.0010	1.27	0.0716	<0.0000050	0.000152	<0.00050	<0.30	0.256
L2275791-2	WQ4	Surface	Dup	5/16/2019	<0.000050	<0.0010	1.22	0.00506	<0.0000050	0.000138	<0.00050	<0.30	0.577
L2275791-1	WQ4	Surface		5/16/2019	<0.000050	<0.0010	1.16	0.00569	<0.0000050	0.000142	<0.00050	<0.30	0.546
L2329543-1	WQ4	Surface		8/13/2019	<0.000050	<0.0010	1.60	0.0100	<0.0000050	0.000160	<0.00050	<0.30	0.779
L2378996-2	WQ4	Surface		11/5/2019	<0.000050	<0.0010	1.52	0.0251	<0.0000050	0.000198	<0.00050	<0.30	0.541
VA20A2211-002	WQ4	Surface		2/20/2020	0.0000810	<0.0010	2.98	0.0297	<0.0000050	0.000296	<0.00050	<0.050	0.631
VA20A6810-002	WQ4	Surface		5/19/2020	0.0000550	<0.0010	0.910	0.00390	<0.0000050	0.000162	<0.00050	<0.050	0.457
VA20B2212-003	WQ4	Surface		8/6/2020	0.0000860	<0.0010	2.01	0.0161	<0.0000050	0.000214	<0.00050	<0.050	0.542
VA20C1415-002	WQ4	Surface		11/19/2020	<0.000050	<0.0010	1.46	0.00843	<0.0000050	0.000153	<0.00050	<0.050	0.366
	WQ5	Surface	Dup	5/17/2011	0.000110	< 0.001	1.35	0.0380	0.0000180	0.000100	0.000540	0.0300	< 0.5
	WQ5	Surface		5/17/2011	0.000140	< 0.001	1.33	0.0335	0.0000160	0.000120	0.000540	0.0300	< 0.5
	WQ5	Surface		5/25/2011	0.0000500	< 0.001	0.830	0.00527	0.00000800	0.000120	0.000320	< 0.02	< 0.5
	WQ5	Surface		5/31/2011	< 0.00005	< 0.001	0.690	0.00383	< 0.000008	0.0000800	0.000250	< 0.02	< 0.5
	WQ5	Surface		6/7/2011	< 0.00005	< 0.001	0.640	0.00532	< 0.000008	0.000110	0.000200	< 0.02	< 0.5
	WQ5	Surface		6/14/2011	< 0.00005	< 0.001	0.710	0.00522	< 0.000008	0.0000900	0.000190	< 0.02	< 0.5
	WQ5	Surface		7/19/2011	0.0000600	< 0.001	1.01	0.00595	< 0.000008	0.000100	0.000260	< 0.02	< 0.5
	WQ5	Surface		8/16/2011	< 0.00005	< 0.001	1.39	0.00563	< 0.000008	0.000190	0.000140	< 0.02	< 0.5
	WQ5	Surface		9/20/2011	< 0.00005	< 0.001	2.32	0.00449	< 0.000008	0.000290	< 0.00005	< 0.02	< 0.5

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Lead (Pb)-Total	Lithium (Li)-Total	Magnesium (Mg)-Total	Manganese (Mn)-Total	Mercury (Hg)-Total	Molybdenum (Mo)-Total	Nickel (Ni)-Total	Phosphorus (P)-Total	Potassium (K)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ5	Surface		10/18/2011	< 0.00005	< 0.001	1.80	0.00483	< 0.000008	0.000160	0.000100	< 0.02	< 0.5
	WQ5	Surface		11/15/2011	< 0.00005	< 0.001	1.90	0.00689	< 0.000008	0.000210	0.000200	< 0.02	< 0.5
	WQ5	Surface		12/12/2011	0.000110	< 0.001	2.50	0.0199	< 0.000008	0.000210	0.000230	< 0.02	< 0.5
	WQ5	Surface		5/14/2012	0.000140	< 0.001	0.940	0.0212	< 0.000005	0.0000800	0.000380	< 0.02	< 0.5
	WQ5	Surface		5/22/2012	0.0000500	< 0.001	0.820	0.00895	< 0.000005	0.000100	0.000190	< 0.02	< 0.5
	WQ5	Surface		5/29/2012	< 0.00005	< 0.001	0.740	0.00239	< 0.000005	0.000130	< 0.00005	< 0.02	< 0.5
	WQ5	Surface		6/5/2012	< 0.00005	< 0.001	0.780	0.00440	< 0.000005	0.0000800	0.000190	< 0.02	< 0.5
	WQ5	Surface		6/12/2012	< 0.00005	< 0.001	0.850	0.00394	< 0.000005	0.0000600	0.000210	< 0.02	< 0.5
	WQ5	Surface		6/19/2012	< 0.00005	< 0.001	0.870	0.00371	< 0.000005	0.0000900	0.000190	< 0.02	< 0.5
	WQ5	Surface		7/17/2012	< 0.00005	< 0.001	1.35	0.00460	< 0.000005	0.000190	0.000160	< 0.02	< 0.5
	WQ5	Surface		8/14/2012	< 0.00005	< 0.001	1.64	0.00454	< 0.000005	0.000220	0.000160	< 0.02	< 0.5
	WQ5	Surface		9/18/2012	< 0.00005	< 0.001	2.06	0.00525	< 0.000005	0.000370	0.000160	< 0.02	< 0.5
	WQ5	Surface		10/15/2012	< 0.00005	< 0.001	2.55	0.00519	< 0.000005	0.000270	0.000100	< 0.02	< 0.5
	WQ5	Surface		11/13/2012	< 0.00005	< 0.001	2.27	0.296	< 0.000005	0.000160	0.000310	< 0.02	< 0.5
	WQ5	Surface		1/13/2013	0.000350	< 0.001	3.42	0.0209	< 0.000005	0.000190	0.000210	< 0.02	< 0.5
	WQ5	Surface		4/15/2013	< 0.00005	< 0.001	2.02	0.00985	< 0.000005	0.000130	0.000290	< 0.01	< 0.5
	WQ5	Surface		5/13/2013	< 0.00005	< 0.001	0.750	0.00511	0.00000600	0.0000800	0.000210	0.0100	< 0.5
	WQ5	Surface		5/22/2013	< 0.00005	< 0.001	0.830	0.00460	< 0.000005	0.0000800	0.000220	< 0.01	< 0.5
	WQ5	Surface		5/27/2013	< 0.00005	< 0.001	0.940	0.00621	< 0.000005	0.000100	0.0000700	< 0.01	< 0.5
	WQ5	Surface		6/6/2013	< 0.00005	< 0.001	0.860	0.00422	< 0.000005	0.0000900	0.000210	0.0100	< 0.5
	WQ5	Surface		6/10/2013	< 0.00005	< 0.001	0.920	0.00478	< 0.000005	0.0000900	0.000160	0.0100	< 0.5
	WQ5	Surface		6/17/2013	0.0000700	< 0.001	0.930	0.00490	< 0.000005	0.000100	0.000170	< 0.01	< 0.5
	WQ5	Surface		4/13/2014	0.000510	< 0.001	2.25	0.0139	< 0.000005	0.000120	0.000340	< 0.01	< 0.5
	WQ5	Surface		7/2/2014	< 0.00005	< 0.001	1.38	0.00417	< 0.000005	< 0.00005	< 0.00005	< 0.01	< 0.5
	WQ5	Surface		9/24/2014	< 0.00005	< 0.001	3.99	0.00942	< 0.000005	0.000310	0.000160	< 0.01	0.700
	WQ5	Surface		12/8/2014	< 0.00005	< 0.001	2.80	0.0100	< 0.000005	0.000190	0.000160	< 0.010	< 0.5
L1812856-8	WQ5	Surface		8/10/2016	< 0.000050	< 0.0010	1.44	0.00421	< 0.0000050	0.000240	< 0.00050	< 0.30	0.240
L1815654-8	WQ5	Surface	Dup	8/16/2016	< 0.000050	< 0.0010	1.70	0.00441	< 0.0000050	0.000474	< 0.00050	< 0.30	0.269
L1815654-6	WQ5	Surface		8/16/2016	< 0.000050	< 0.0010	1.69	0.00420	< 0.0000050	0.00169	< 0.00050	< 0.30	0.270
L1819041-9	WQ5	Surface		8/23/2016	< 0.000050	< 0.0010	1.79	0.00427	< 0.0000050	0.000250	< 0.00050	< 0.30	0.299
L1823224-1	WQ5	Surface	Dup	8/31/2016	< 0.000050	< 0.0010	1.41	0.00457	< 0.0000050	0.000242	< 0.00050	< 0.30	0.282
L1823224-8	WQ5	Surface		8/31/2016	< 0.000050	< 0.0010	1.52	0.00505	< 0.0000050	0.000251	< 0.00050	< 0.30	0.295
L1826303-4	WQ5	Surface		9/7/2016	< 0.000050	< 0.0010	1.31	0.00535	< 0.0000050	0.000194	< 0.00050	< 0.30	0.222
L1925486-4	WQ5	Surface		5/10/2017	0.000133	< 0.0010	1.32	0.0350	0.0000120	0.000224	< 0.00050	< 0.30	0.587
L1962414-2	WQ5	Surface		7/19/2017	< 0.000050	< 0.0010	1.74	0.00623	< 0.0000050	0.000231	< 0.00050	< 0.30	0.287
L1988190-2	WQ5	Surface		9/6/2017	0.0000700	< 0.0010	2.07	0.0511	0.00000500	0.000681	< 0.00050	< 0.30	0.487
L2010514-2	WQ5	Surface		10/18/2017	< 0.000050	0.00110	1.21	0.00999	< 0.0000050	0.000172	< 0.00050	< 0.30	0.296
L2060442-2	WQ5	Surface		2/23/2018	< 0.000050	< 0.0010	4.60	0.0225	< 0.0000050	0.000625	< 0.00050	< 0.30	0.770
L2103632-2	WQ5	Surface		5/29/2018	< 0.000050	< 0.0010	1.19	0.0132	0.00000550	0.000349	< 0.00050	< 0.30	0.379
L2143640-1	WQ5	Surface		8/7/2018	< 0.000050	< 0.0010	2.28	0.0276	< 0.0000050	0.000698	< 0.00050	< 0.30	0.515
L2204508-1	WQ5	Surface		11/29/2018	< 0.000050	< 0.0010	1.81	0.0127	0.00000530	0.000387	< 0.00050	< 0.30	0.394
L2232772-2	WQ5	Surface		2/12/2019	0.0000790	< 0.0010	2.38	0.0136	< 0.0000050	0.000583	< 0.00050	< 0.30	0.558
L2273497-3	WQ5	Surface		5/13/2019	0.000136	< 0.0010	0.954	0.0129	0.00000850	0.000229	< 0.00050	< 0.30	0.389
L2328474-2	WQ5	Surface		8/12/2019	< 0.000050	< 0.0010	1.22	0.0151	< 0.0000050	0.000218	< 0.00050	< 0.30	0.258

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Lead (Pb)-Total	Lithium (Li)-Total	Magnesium (Mg)-Total	Manganese (Mn)-Total	Mercury (Hg)-Total	Molybdenum (Mo)-Total	Nickel (Ni)-Total	Phosphorus (P)-Total	Potassium (K)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2385426-2	WQ5	Surface		11/18/2019	0.0000770	<0.0010	0.981	0.0108	0.0000600	0.000165	<0.00050	<0.30	0.249
VA20A1830-001	WQ5	Surface		2/12/2020	<0.000050	<0.0010	2.10	0.0116	<0.0000050	0.000754	<0.00050	<0.050	0.414
VA20A6574-002	WQ5	Surface		5/14/2020	0.0000820	<0.0010	0.858	0.00824	0.00000670	0.000179	<0.00050	<0.050	0.323
VA20B2692-001	WQ5	Surface		8/12/2020	<0.000050	<0.0010	2.39	0.0183	<0.0000050	0.000605	<0.00050	<0.050	0.467
VA20C1166-002	WQ5	Surface		11/17/2020	0.0000690	<0.0010	1.44	0.0149	<0.0000050	0.000341	<0.00050	<0.050	0.304
	WQ6	Surface		5/17/2011	0.000550	< 0.001	0.770	0.0292	0.0000150	0.000250	0.000660	0.0300	0.700
	WQ6	Surface		5/24/2011	0.000190	< 0.001	0.600	0.0116	0.0000100	0.000190	0.000510	< 0.02	< 0.5
	WQ6	Surface		5/30/2011	0.000110	< 0.001	0.520	0.00629	< 0.000008	0.000220	0.000420	< 0.02	< 0.5
	WQ6	Surface		6/6/2011	0.000100	< 0.001	0.510	0.00629	< 0.000008	0.000300	0.000330	< 0.02	< 0.5
	WQ6	Surface		6/13/2011	0.0000600	< 0.001	0.560	0.00641	< 0.000008	0.000290	0.000290	< 0.02	< 0.5
	WQ6	Surface		7/18/2011	< 0.00005	< 0.001	0.660	0.00635	< 0.000008	0.000350	0.000330	< 0.02	< 0.5
	WQ6	Surface	Dup	8/15/2011	0.0000500	< 0.001	0.800	0.00766	< 0.000008	0.000470	0.000170	< 0.02	< 0.5
	WQ6	Surface		8/15/2011	< 0.00005	< 0.001	0.800	0.00769	< 0.000008	0.000430	0.000170	< 0.02	< 0.5
	WQ6	Surface		9/19/2011	< 0.00005	< 0.001	1.03	0.00779	< 0.000008	0.000500	< 0.00005	< 0.02	< 0.5
	WQ6	Surface		10/17/2011	< 0.00005	< 0.001	0.900	0.00631	< 0.000008	0.000410	0.0000900	< 0.02	< 0.5
	WQ6	Surface		11/14/2011	< 0.00005	< 0.001	0.990	0.00768	< 0.000008	0.000460	0.000180	< 0.02	< 0.5
	WQ6	Surface		4/17/2012	0.000170	< 0.001	1.26	0.0342	< 0.000008	0.000450	0.000320	< 0.02	0.600
	WQ6	Surface		5/15/2012	0.000120	< 0.001	0.720	0.0192	< 0.000005	0.000240	0.000370	< 0.02	< 0.5
	WQ6	Surface		5/23/2012	0.0000900	< 0.001	0.660	0.00722	< 0.000005	0.000210	0.000180	< 0.02	< 0.5
	WQ6	Surface		5/28/2012	< 0.00005	< 0.001	0.630	0.00624	< 0.000005	0.000220	< 0.00005	< 0.02	< 0.5
	WQ6	Surface		6/4/2012	< 0.00005	< 0.001	0.600	0.00600	< 0.000005	0.000310	0.000280	< 0.02	< 0.5
	WQ6	Surface		6/11/2012	< 0.00005	< 0.001	0.540	0.00604	< 0.000005	0.000300	0.000290	< 0.02	< 0.5
	WQ6	Surface		6/18/2012	< 0.00005	< 0.001	0.560	0.00485	< 0.000005	0.000300	< 0.00005	< 0.02	< 0.5
	WQ6	Surface		7/16/2012	< 0.00005	< 0.001	0.780	0.00639	< 0.000005	0.000500	0.000150	< 0.02	< 0.5
	WQ6	Surface		8/13/2012	0.000240	< 0.001	0.950	0.00828	< 0.000005	0.000470	0.000440	< 0.02	< 0.5
	WQ6	Surface		9/17/2012	< 0.00005	< 0.001	1.12	0.00766	< 0.000005	0.000530	0.000170	< 0.02	< 0.5
	WQ6	Surface		10/16/2012	< 0.00005	< 0.001	1.17	0.00731	0.00000500	0.000450	0.0000800	< 0.02	< 0.5
	WQ6	Surface		11/12/2012	< 0.00005	< 0.001	1.20	0.00661	< 0.000005	0.000390	0.000110	< 0.02	< 0.5
	WQ6	Surface		12/10/2012	< 0.00005	< 0.001	1.40	0.0147	< 0.000005	0.000490	0.000100	< 0.02	< 0.5
	WQ6	Surface		1/15/2013	< 0.00005	< 0.001	1.29	0.00759	< 0.000005	0.000500	0.0000700	< 0.02	< 0.5
	WQ6	Surface		2/13/2013	< 0.00005	< 0.001	1.24	0.00511	< 0.000005	0.000550	< 0.00005	< 0.02	< 0.5
	WQ6	Surface		3/12/2013	< 0.00005	< 0.001	1.36	0.00558	< 0.000005	0.000580	0.000120	0.0200	< 0.5
	WQ6	Surface		4/16/2013	< 0.00005	< 0.001	1.10	0.00608	< 0.000005	0.000510	0.000210	0.0100	< 0.5
	WQ6	Surface		5/14/2013	0.0000500	< 0.001	0.650	0.00735	0.00000600	0.000250	0.000380	0.0100	< 0.5
	WQ6	Surface		5/21/2013	< 0.00005	< 0.001	0.630	0.00512	< 0.000005	0.000300	0.000300	< 0.01	< 0.5
	WQ6	Surface		5/28/2013	0.0000600	< 0.001	0.710	0.00615	< 0.000005	0.000310	0.000130	< 0.01	< 0.5
	WQ6	Surface		6/4/2013	0.0000500	< 0.001	0.610	0.00539	< 0.000005	0.000320	0.000280	0.0100	< 0.5
	WQ6	Surface		6/11/2013	< 0.00005	< 0.001	0.640	0.00526	< 0.000005	0.000320	0.000220	< 0.01	< 0.5
	WQ6	Surface		6/18/2013	< 0.00005	< 0.001	0.650	0.00457	< 0.000005	0.000330	0.000290	0.0100	< 0.5
	WQ7	Surface		4/19/2011	< 0.00005	< 0.005	4.07	0.0265	< 0.000008	0.000870	0.000150	< 0.02	0.600
	WQ7	Surface		5/17/2011	0.000640	< 0.001	1.57	0.0914	0.0000420	0.000270	0.00148	0.0700	0.900
	WQ7	Surface		5/24/2011	0.000420	< 0.001	1.44	0.0501	0.0000100	0.000260	0.00138	0.0500	0.700
	WQ7	Surface		5/30/2011	0.000260	< 0.001	1.31	0.0367	< 0.000008	0.000260	0.00111	0.0400	0.500
	WQ7	Surface		6/6/2011	0.000250	< 0.001	1.00	0.0313	< 0.000008	0.000240	0.000870	0.0300	< 0.5

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Lead (Pb)-Total	Lithium (Li)-Total	Magnesium (Mg)-Total	Manganese (Mn)-Total	Mercury (Hg)-Total	Molybdenum (Mo)-Total	Nickel (Ni)-Total	Phosphorus (P)-Total	Potassium (K)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ7	Surface		6/13/2011	0.000100	< 0.001	1.10	0.0178	< 0.000008	0.000270	0.000440	< 0.02	< 0.5
	WQ7	Surface		7/18/2011	0.0000600	< 0.001	1.72	0.0169	< 0.000008	0.000290	0.000410	< 0.02	< 0.5
	WQ7	Surface		8/15/2011	< 0.00005	< 0.001	2.49	0.0190	< 0.000008	0.000540	0.000280	< 0.02	< 0.5
	WQ7	Surface	Dup	9/19/2011	< 0.00005	< 0.001	3.37	0.0187	< 0.000008	0.000700	< 0.00005	< 0.02	0.500
	WQ7	Surface		9/19/2011	< 0.00005	< 0.001	3.30	0.0185	< 0.000008	0.000740	< 0.00005	< 0.02	0.500
	WQ7	Surface	Dup	10/17/2011	< 0.00005	< 0.001	2.77	0.0164	< 0.000008	0.000490	0.000160	< 0.02	< 0.5
	WQ7	Surface		10/17/2011	0.0000900	< 0.001	2.80	0.0164	< 0.000008	0.000510	0.000130	< 0.02	< 0.5
	WQ7	Surface		11/14/2011	< 0.00005	< 0.001	2.99	0.0269	< 0.000008	0.000610	0.000200	< 0.02	< 0.5
	WQ7	Surface	Dup	12/13/2011	< 0.00005	< 0.001	3.38	0.0251	< 0.000008	0.000660	0.000240	< 0.02	< 0.5
	WQ7	Surface		12/13/2011	0.000130	< 0.001	3.45	0.0529	< 0.000008	0.000700	0.000450	0.0200	0.600
	WQ7	Surface		1/12/2012	< 0.00005	< 0.001	3.45	0.0182	< 0.000008	0.000670	0.000110	< 0.02	0.500
	WQ7	Surface	Dup	2/13/2012	< 0.00005	< 0.001	3.71	0.0191	< 0.000008	0.000790	0.000160	< 0.02	0.600
	WQ7	Surface		2/13/2012	0.000100	< 0.001	3.96	0.0195	< 0.000008	0.000860	0.000420	< 0.02	0.600
	WQ7	Surface		3/12/2012	< 0.00005	< 0.001	3.82	0.0184	< 0.000008	0.000840	0.000180	< 0.02	0.500
	WQ7	Surface	Dup	4/17/2012	0.000740	< 0.001	3.85	0.0172	< 0.000008	0.000630	0.000290	0.0300	1.60
	WQ7	Surface		4/17/2012	< 0.00005	< 0.001	3.75	0.0169	< 0.000008	0.000570	0.000290	0.0300	1.60
	WQ7	Surface		5/15/2012	0.000270	< 0.001	1.40	0.0567	< 0.000005	0.000250	0.000490	0.0400	0.500
	WQ7	Surface		5/23/2012	0.000220	< 0.001	1.40	0.0221	< 0.000005	0.000260	0.000480	0.0300	< 0.5
	WQ7	Surface	Dup	5/28/2012	0.0000600	< 0.001	1.13	0.0209	< 0.000005	0.000180	0.000250	< 0.02	< 0.5
	WQ7	Surface		5/28/2012	< 0.00005	< 0.001	1.11	0.0174	< 0.000005	0.000170	0.000100	< 0.02	< 0.5
	WQ7	Surface		6/4/2012	< 0.00005	< 0.001	1.17	0.0157	< 0.000005	0.000250	0.000250	< 0.02	< 0.5
	WQ7	Surface		6/11/2012	< 0.00005	< 0.001	1.10	0.0120	< 0.000005	0.000200	0.000270	< 0.02	< 0.5
	WQ7	Surface		6/18/2012	0.000940	< 0.001	23.5	0.0123	< 0.000005	0.000300	< 0.00005	4.88	15.4
	WQ7	Surface	Dup	7/16/2012	< 0.00005	< 0.001	2.11	0.0146	< 0.000005	0.000520	0.000210	< 0.02	< 0.5
	WQ7	Surface		7/16/2012	< 0.00005	< 0.001	2.11	0.0144	0.0000600	0.000480	0.000250	< 0.02	< 0.5
	WQ7	Surface	Dup	8/13/2012	< 0.00005	< 0.001	2.61	0.0219	< 0.000005	0.000940	0.000230	< 0.02	0.600
	WQ7	Surface		8/13/2012	0.000370	< 0.001	2.58	0.0225	< 0.000005	0.000600	0.000770	< 0.02	0.600
	WQ7	Surface		9/17/2012	< 0.00005	< 0.001	3.22	0.0246	< 0.000005	0.000730	0.000200	< 0.02	0.500
	WQ7	Surface		10/16/2012	< 0.00005	< 0.001	3.56	0.0267	< 0.000005	0.000750	0.000900	< 0.02	0.600
	WQ7	Surface	Dup	11/12/2012	< 0.00005	< 0.001	3.71	0.0233	< 0.000005	0.000600	0.000180	< 0.02	0.500
	WQ7	Surface		11/12/2012	< 0.00005	< 0.001	3.64	0.0234	< 0.000005	0.000580	0.000170	< 0.02	0.500
	WQ7	Surface		12/10/2012	< 0.00005	< 0.001	3.98	0.0225	< 0.000005	0.000700	0.000100	< 0.02	0.500
	WQ7	Surface	Dup	1/15/2013	< 0.00005	< 0.001	4.22	0.0287	< 0.000005	0.000750	0.000130	0.0200	0.600
	WQ7	Surface		1/15/2013	< 0.00005	< 0.001	4.24	0.0752	< 0.000005	0.000780	0.000130	0.0200	0.700
	WQ7	Surface	Dup	2/13/2013	< 0.00005	< 0.001	3.96	0.0225	< 0.000005	0.000800	0.0000500	< 0.02	0.600
	WQ7	Surface		2/13/2013	0.0000700	< 0.001	4.00	0.0271	< 0.000005	0.000780	0.000210	< 0.02	1.00
	WQ7	Surface		3/12/2013	< 0.00005	< 0.001	4.25	0.0208	< 0.000005	0.000830	0.000240	0.0300	0.600
	WQ7	Surface	Dup	4/16/2013	< 0.00005	< 0.001	3.74	0.0176	< 0.000005	0.000600	0.000250	< 0.01	0.700
	WQ7	Surface		4/16/2013	< 0.00005	< 0.001	3.82	0.0181	< 0.000005	0.000630	0.000260	0.0100	0.700
	WQ7	Surface		5/14/2013	0.000130	< 0.001	1.10	0.0238	< 0.000005	0.000210	0.000390	0.0100	< 0.5
	WQ7	Surface		5/21/2013	0.0000500	< 0.001	1.21	0.0121	< 0.000005	0.000260	0.000360	0.0200	< 0.5
	WQ7	Surface		5/28/2013	0.000100	< 0.001	1.34	0.0155	< 0.000005	0.000230	0.000310	< 0.01	< 0.5
	WQ7	Surface	Dup	6/4/2013	0.0000700	< 0.001	1.34	0.0149	< 0.000005	0.000260	0.000310	0.0200	< 0.5
	WQ7	Surface		6/4/2013	0.0000800	< 0.001	1.35	0.0139	< 0.000005	0.000250	0.000560	0.0200	< 0.5

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					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ7	Surface		6/11/2013	0.0000500	< 0.001	1.52	0.0113	< 0.000005	0.000350	0.000240	< 0.01	< 0.5
	WQ7	Surface	Dup	6/18/2013	0.0000600	< 0.001	1.68	0.0140	< 0.000005	0.000280	0.000240	0.0200	< 0.5
	WQ7	Surface		6/18/2013	< 0.00005	< 0.001	1.66	0.0120	< 0.000005	0.000280	0.000270	0.0200	< 0.5
	WQ7	Surface		4/13/2014	<0.00005	<0.001	3.34	0.155	<0.000005	0.000650	0.00110	0.0700	1.30
	WQ7	Surface		7/2/2014	<0.00005	<0.001	2.36	0.0105	<0.000005	0.000280	<0.00005	<0.01	<0.5
	WQ7	Surface		9/24/2014	<0.00005	<0.001	4.17	0.0110	<0.000005	0.000940	0.000190	<0.01	0.900
	WQ7	Surface		12/9/2014	<0.00005	<0.001	3.98	0.0225	<0.000005	0.000790	0.0000200	<0.01	0.600
L1812856-9	WQ7	Surface		8/10/2016	<0.000050	<0.0010	2.38	0.00865	<0.0000050	0.000596	<0.00050	<0.30	0.510
L1815654-9	WQ7	Surface		8/16/2016	<0.000050	<0.0010	2.74	0.00907	<0.0000050	0.000638	<0.00050	<0.30	0.559
L1819041-2	WQ7	Surface		8/23/2016	<0.000050	<0.0010	2.75	0.00760	<0.0000050	0.000673	<0.00050	<0.30	0.553
L1823224-2	WQ7	Surface		8/31/2016	<0.000050	<0.0010	2.72	0.00807	<0.0000050	0.000685	<0.00050	<0.30	0.534
L1826303-7	WQ7	Surface		9/7/2016	<0.000050	<0.0010	2.31	0.00853	<0.0000050	0.000572	<0.00050	<0.30	0.452
L1913531-3	WQ7	Surface		4/12/2017	<0.000050	<0.0010	4.12	0.00924	<0.0000050	0.000632	<0.00050	<0.30	0.797
L1926080-8	WQ7	Surface	Dup	5/11/2017	0.000127	<0.0010	1.78	0.0209	0.0000100	0.000313	0.000710	<0.30	0.592
L1926080-4	WQ7	Surface		5/11/2017	0.000138	<0.0010	1.75	0.0231	0.0000100	0.000297	0.000700	<0.30	0.585
L1939712-7	WQ7	Surface		6/7/2017	0.0000590	<0.0010	1.27	0.0118	0.00000800	0.000307	<0.00050	<0.30	0.378
L1962414-3	WQ7	Surface		7/19/2017	<0.000050	<0.0010	2.68	0.0151	<0.0000050	0.000595	<0.00050	<0.30	0.511
L1984944-5	WQ7	Surface		8/30/2017	<0.000050	<0.0010	3.72	0.0200	<0.0000050	0.000918	<0.00050	<0.30	0.653
L1988832-4	WQ7	Surface		9/9/2017	<0.000050	<0.0010	3.71	0.0198	<0.0000050	0.000854	<0.00050	<0.30	0.681
L2009845-2	WQ7	Surface		10/17/2017	0.000147	<0.0010	2.78	0.0783	<0.000025	0.000673	0.000590	<0.30	0.647
L2020333-6	WQ7	Surface	Dup	11/7/2017	<0.000050	<0.0010	2.39	0.0140	<0.0000050	0.000514	<0.00050	<0.30	0.351
L2020333-2	WQ7	Surface		11/7/2017	<0.000050	<0.0010	2.54	0.0131	<0.0000050	0.000525	<0.00050	<0.30	0.370
L2034610-2	WQ7	Surface		12/11/2017	<0.000050	<0.0010	2.51	0.0125	<0.0000050	0.000541	<0.00050	<0.30	0.410
L2049678-1	WQ7	Surface		1/24/2018	<0.000050	<0.0010	3.02	0.0150	<0.0000050	0.000685	<0.00050	<0.30	0.480
L2062480-2	WQ7	Surface		2/28/2018	<0.000050	<0.0010	3.34	0.0148	<0.0000050	0.000704	<0.00050	<0.30	0.436
L2074294-1	WQ7	Surface		3/28/2018	<0.000050	<0.0010	3.64	0.0204	<0.0000050	0.000782	<0.00050	<0.30	0.544
L2081503-1	WQ7	Surface		4/17/2018	<0.000050	<0.0010	3.73	0.0173	<0.0000050	0.000746	<0.00050	<0.30	0.612
L2097084-8	WQ7	Surface	Dup	5/16/2018	0.000493	<0.0010	1.08	0.0441	0.0000137	0.000310	0.00145	<0.30	0.481
L2097084-1	WQ7	Surface		5/16/2018	0.000394	<0.0010	1.09	0.0453	0.0000127	0.000279	0.00135	<0.30	0.505
L2104479-1	WQ7	Surface		5/30/2018	0.000127	<0.0010	1.32	0.0116	<0.0000050	0.000306	<0.00050	<0.30	0.339
L2132128-7	WQ7	Surface	Dup	7/17/2018	<0.000050	<0.0010	2.48	0.00870	0.0000105	0.000667	<0.00050	<0.30	0.518
L2132128-1	WQ7	Surface		7/17/2018	<0.000050	<0.0010	2.57	0.00854	0.00000590	0.000675	<0.00050	<0.30	0.526
L2144782-2	WQ7	Surface		8/9/2018	<0.000050	<0.0010	2.86	0.0111	<0.0000050	0.000757	<0.00050	<0.30	0.614
L2164448-4	WQ7	Surface	Dup	9/12/2018	<0.000050	<0.0010	3.46	0.0161	<0.0000050	0.000826	<0.00050	<0.30	0.603
L2164448-3	WQ7	Surface		9/12/2018	<0.000050	<0.0010	3.38	0.0134	<0.0000050	0.000846	<0.00050	<0.30	0.590
L2187638-4	WQ7	Surface	Dup	10/24/2018	<0.000050	<0.0010	2.81	0.00881	0.00000690	0.000629	<0.00050	<0.30	0.449
L2187638-3	WQ7	Surface		10/24/2018	<0.000050	<0.0010	2.67	0.00819	0.00000990	0.000600	<0.00050	<0.30	0.430
L2203408-2	WQ7	Surface		11/27/2018	<0.000050	<0.0010	2.25	0.00810	<0.0000050	0.000509	<0.00050	<0.30	0.441
L2213684-1	WQ7	Surface		12/19/2018	0.0000510	<0.0010	2.74	0.00795	0.0000104	0.000649	<0.00050	<0.30	0.510
L2227101-6	WQ7	Surface	Dup	1/29/2019	<0.000050	<0.0010	3.10	0.0128	<0.0000050	0.000653	<0.00050	<0.30	0.468
L2227101-1	WQ7	Surface		1/29/2019	<0.000050	<0.0010	3.27	0.0134	<0.0000050	0.000731	<0.00050	<0.30	0.490
L2232050-4	WQ7	Surface		2/11/2019	<0.000050	<0.0010	3.14	0.0103	<0.0000050	0.000707	<0.00050	<0.30	0.467
L2245144-4	WQ7	Surface		3/14/2019	<0.000050	<0.0010	3.57	0.0111	<0.0000050	0.000802	<0.00050	<0.30	0.550
L2256054-1	WQ7	Surface		4/9/2019	<0.000050	<0.0010	3.38	0.0134	0.00000500	0.000616	<0.00050	<0.30	0.800

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Lead (Pb)-Total	Lithium (Li)-Total	Magnesium (Mg)-Total	Manganese (Mn)-Total	Mercury (Hg)-Total	Molybdenum (Mo)-Total	Nickel (Ni)-Total	Phosphorus (P)-Total	Potassium (K)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2269368-6	WQ7	Surface	Dup	5/4/2019	0.000126	<0.0010	1.58	0.0195	0.00000720	0.000383	0.000510	<0.30	0.457
L2269368-1	WQ7	Surface		5/4/2019	0.0000990	<0.0010	1.58	0.0166	0.00000690	0.000378	<0.00050	<0.30	0.448
L2277964-4	WQ7	Surface		5/21/2019	0.000501	<0.0010	1.29	0.0692	0.0000146	0.000285	0.00162	<0.30	0.621
L2282191-2	WQ7	Surface		5/28/2019	0.0000860	<0.0010	1.29	0.0105	<0.000025	0.000238	<0.00050	<0.30	0.319
L2282975-1	WQ7	Surface		5/29/2019	0.0000780	<0.0010	1.54	0.0129	0.00000710	0.000322	0.000510	<0.30	0.403
L2286702-5	WQ7	Surface	Dup	6/4/2019	<0.000050	<0.0010	1.62	0.00878	<0.0000050	0.000397	<0.00050	<0.30	0.372
L2286702-1	WQ7	Surface		6/4/2019	<0.000050	<0.0010	1.57	0.00910	<0.0000050	0.000363	<0.00050	<0.30	0.369
L2313851-2	WQ7	Surface		7/18/2019	<0.000050	<0.0010	1.61	0.0119	0.00000520	0.000356	<0.00050	<0.30	0.306
L2328474-3	WQ7	Surface		8/12/2019	<0.000050	<0.0010	1.64	0.0111	<0.0000050	0.000362	<0.00050	<0.30	0.331
L2349445-1	WQ7	Surface		9/16/2019	<0.000050	<0.0010	2.74	0.0118	<0.0000050	0.000587	<0.00050	<0.30	0.490
L2371052-1	WQ7	Surface		10/22/2019	<0.000050	<0.0010	2.06	0.0103	<0.0000050	0.000404	<0.00050	<0.30	0.442
L2388381-1	WQ7	Surface		11/25/2019	<0.000050	<0.0010	1.67	0.0101	<0.0000050	0.000357	<0.00050	<0.30	0.312
VA19A0791-001	WQ7	Surface		12/17/2019	<0.000050	<0.0010	2.13	0.00924	<0.0000050	0.000435	<0.00050	<0.050	0.388
VA20A0960-001	WQ7	Surface		1/27/2020	<0.000050	<0.0010	2.89	0.0102	<0.0000050	0.000577	<0.00050	<0.050	0.430
VA20A2126-004	WQ7	Surface		2/19/2020	<0.000050	<0.0010	3.17	0.0129	<0.0000050	0.0415	<0.00050	<0.050	0.501
VA20A3691-002	WQ7	Surface		3/18/2020	<0.000050	<0.0010	3.70	0.0110	<0.0000050	0.000748	<0.00050	<0.050	0.489
VA20A4555-002	WQ7	Surface		4/7/2020	0.000317	<0.0010	3.70	0.0117	<0.0000050	0.000744	<0.00050	<0.050	0.509
VA20A6218-002	WQ7	Surface		5/7/2020	0.0000700	<0.0010	1.33	0.0121	0.00000680	0.000262	<0.00050	<0.050	0.394
VA20A6503-003	WQ7	Surface		5/13/2020	0.000274	<0.0010	1.18	0.0135	0.00000880	0.000268	0.000520	<0.050	0.386
VA20A6869-001	WQ7	Surface		5/20/2020	0.0000780	<0.0010	0.996	0.0136	<0.0000050	0.000267	<0.00050	<0.050	0.325
VA20A7367-001	WQ7	Surface		5/28/2020	0.000105	<0.0010	1.14	0.0196	0.00000650	0.000276	<0.00050	<0.050	0.293
VA20A7672-004	WQ7	Surface		6/2/2020	<0.000050	<0.0010	1.18	0.00849	0.00000610	0.000325	<0.00050	<0.050	0.309
VA20A9918-005	WQ7	Surface	Dup	7/6/2020	<0.000050	<0.0010	1.84	0.00919	<0.0000050	0.000343	<0.00050	<0.050	0.346
VA20A9918-001	WQ7	Surface		7/6/2020	<0.000050	<0.0010	1.79	0.00890	<0.0000050	0.000426	<0.00050	<0.050	0.341
VA20B2156-004	WQ7	Surface		8/5/2020	<0.000050	<0.0010	2.54	0.0106	<0.0000050	0.000606	<0.00050	<0.050	0.492
VA20B2542-005	WQ7	Surface	Dup	8/11/2020	<0.000050	<0.0010	2.70	0.0115	<0.0000050	0.000610	<0.00050	<0.050	0.487
VA20B2542-003	WQ7	Surface		8/11/2020	<0.000050	<0.0010	2.74	0.00924	<0.0000050	0.000622	<0.00050	<0.050	0.507
VA20B3218-001	WQ7	Surface		8/18/2020	<0.000050	<0.0010	2.70	0.0128	<0.0000050	0.000615	<0.00050	<0.050	0.520
VA20B3609-002	WQ7	Surface		8/24/2020	<0.000050	<0.0010	2.62	0.00978	<0.0000050	0.000717	<0.00050	<0.050	0.462
VA20B4443-003	WQ7	Surface		9/2/2020	<0.000050	<0.0010	2.64	0.00939	<0.0000050	0.000617	<0.00050	<0.050	0.509
VA20B7624-001	WQ7	Surface		10/6/2020	<0.000050	<0.0010	2.89	0.0112	<0.0000050	0.000631	<0.00050	<0.050	0.568
VA20C0298-001	WQ7	Surface		11/5/2020	0.0000930	<0.0010	1.48	0.0149	0.00000660	0.000266	<0.00050	<0.050	0.337
	WQ8	Surface		4/19/2011	< 0.00005	< 0.005	5.00	0.00342	< 0.000008	0.000550	0.000240	0.0200	0.900
	WQ8	Surface		5/17/2011	< 0.00005	< 0.001	4.49	0.00463	< 0.000008	0.000470	0.000250	< 0.02	0.800
	WQ8	Surface	Dup	5/24/2011	< 0.00005	< 0.001	4.62	0.00750	< 0.000008	0.000440	0.000280	< 0.02	0.800
	WQ8	Surface		5/24/2011	< 0.00005	< 0.001	4.61	0.00630	< 0.000008	0.000460	0.000250	< 0.02	0.800
	WQ8	Surface		5/30/2011	< 0.00005	< 0.001	6.35	0.00799	< 0.000008	0.000710	0.000330	0.0300	1.10
	WQ8	Surface		6/6/2011	< 0.00005	< 0.001	4.51	0.00323	< 0.000008	0.000490	0.000250	< 0.02	0.800
	WQ8	Surface	Dup	6/13/2011	< 0.00005	< 0.001	4.42	0.0194	< 0.000008	0.000490	0.000300	0.0200	0.800
	WQ8	Surface		6/13/2011	< 0.00005	< 0.001	4.39	0.0208	< 0.000008	0.000500	0.000310	0.0200	0.800
	WQ8	Surface		7/18/2011	< 0.00005	< 0.001	4.36	0.0159	< 0.000008	0.000500	0.000280	0.0300	0.800
	WQ8	Surface		8/15/2011	0.0000500	< 0.001	4.62	0.00578	< 0.000008	0.000540	0.000280	< 0.02	0.800
	WQ8	Surface		9/19/2011	< 0.00005	< 0.001	4.55	0.00432	< 0.000008	0.000520	< 0.00005	< 0.02	0.700
	WQ8	Surface		10/17/2011	< 0.00005	< 0.001	4.76	0.00851	< 0.000008	0.000490	0.000210	0.0400	0.900

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					Lead (Pb)-Total	Lithium (Li)-Total	Magnesium (Mg)-Total	Manganese (Mn)-Total	Mercury (Hg)-Total	Molybdenum (Mo)-Total	Nickel (Ni)-Total	Phosphorus (P)-Total	Potassium (K)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ8	Surface		11/14/2011	< 0.00005	< 0.001	4.64	0.0224	< 0.000008	0.000520	0.000280	< 0.02	0.800
	WQ8	Surface		12/12/2011	0.0000800	< 0.001	5.25	0.0773	< 0.000008	0.000550	0.000380	0.0500	0.900
	WQ8	Surface		1/12/2012	< 0.00005	< 0.001	4.89	0.00588	< 0.000008	0.000500	0.000190	< 0.02	0.900
	WQ8	Surface		2/13/2012	< 0.00005	< 0.001	5.11	0.00322	< 0.000008	0.000540	0.000300	< 0.02	0.900
	WQ8	Surface		3/12/2012	< 0.00005	< 0.001	5.07	0.00608	< 0.000008	0.000560	0.000280	< 0.02	0.900
	WQ8	Surface		4/16/2012	0.0000500	< 0.001	4.67	0.0178	< 0.000008	0.000500	0.000240	0.0400	1.00
	WQ8	Surface		5/14/2012	< 0.00005	< 0.001	4.59	0.147	< 0.000005	0.000490	0.000250	0.0300	0.800
	WQ8	Surface		5/22/2012	0.000130	< 0.001	4.69	0.0318	< 0.000005	0.000530	0.000200	0.0200	0.800
	WQ8	Surface		5/28/2012	< 0.00005	< 0.001	4.86	0.0366	< 0.000005	0.000540	< 0.00005	< 0.02	0.800
	WQ8	Surface		6/4/2012	< 0.00005	< 0.001	4.60	0.0233	< 0.000005	0.000530	0.000210	< 0.02	0.800
	WQ8	Surface		6/11/2012	< 0.00005	< 0.001	4.50	0.0106	< 0.000005	0.000630	0.000230	< 0.02	0.700
	WQ8	Surface		6/18/2012	< 0.00005	< 0.001	4.45	0.00842	< 0.000005	0.000470	< 0.00005	< 0.02	0.700
	WQ8	Surface		7/16/2012	< 0.00005	< 0.001	4.44	0.0111	< 0.000005	0.000570	0.000230	< 0.02	0.700
	WQ8	Surface		8/13/2012	0.000740	< 0.001	4.70	0.0112	< 0.000005	0.000630	0.000780	< 0.02	0.800
	WQ8	Surface		9/17/2012	< 0.00005	< 0.001	4.66	0.0218	< 0.000005	0.000620	0.000350	0.0300	0.900
	WQ8	Surface		10/15/2012	< 0.00005	< 0.001	4.83	0.00748	< 0.000005	0.000590	0.000130	0.0300	0.900
	WQ8	Surface		11/13/2012	0.0000900	< 0.001	5.01	0.0982	< 0.000005	0.000530	0.000420	0.0500	0.800
	WQ8	Surface		1/13/2013	< 0.00005	< 0.001	5.54	0.0130	< 0.000005	0.000540	0.000160	0.0200	1.00
	WQ8	Surface		2/12/2013	< 0.00005	< 0.001	5.55	0.00211	< 0.000005	0.000530	0.000120	< 0.02	1.00
	WQ8	Surface	Dup	3/11/2013	< 0.00005	< 0.001	5.55	0.00166	< 0.000005	0.000590	0.000260	0.0200	1.00
	WQ8	Surface		3/11/2013	< 0.00005	< 0.001	5.43	0.00137	< 0.000005	0.000580	0.000240	0.0200	1.00
	WQ8	Surface		4/15/2013	< 0.00005	< 0.001	3.83	0.0260	< 0.000005	0.000510	0.000200	0.0200	1.10
	WQ8	Surface		5/13/2013	< 0.00005	< 0.001	5.01	0.0756	< 0.000005	0.000490	0.000210	0.0200	0.800
	WQ8	Surface		5/22/2013	< 0.00005	< 0.001	5.03	0.0675	< 0.000005	0.000660	0.000620	0.0900	1.00
	WQ8	Surface		5/27/2013	< 0.00005	< 0.001	5.27	0.0310	< 0.000005	0.000540	0.0000900	< 0.01	0.900
	WQ8	Surface		6/6/2013	< 0.00005	< 0.001	4.62	0.00829	< 0.000005	0.000500	0.000190	0.0200	0.800
	WQ8	Surface		6/10/2013	< 0.00005	< 0.001	4.43	0.0210	< 0.000005	0.000540	0.000230	0.0500	0.800
	WQ8	Surface		6/17/2013	< 0.00005	< 0.001	4.46	0.0119	< 0.000005	0.000490	0.000220	0.0200	0.800
	WQ8	Surface		4/13/2014	< 0.00005	< 0.001	4.19	0.0424	< 0.000005	0.000470	0.000330	0.0300	1.10
	WQ8	Surface		7/2/2014	< 0.00005	< 0.001	4.53	0.0118	< 0.000005	0.000260	< 0.00005	0.0100	0.800
	WQ8	Surface		9/24/2014	< 0.00005	< 0.001	4.97	0.00754	< 0.000005	0.000570	0.000280	0.0200	0.900
	WQ8	Surface	Dup	12/9/2014	< 0.00005	< 0.001	5.34	0.00938	< 0.000005	0.000550	0.000250	0.0300	0.900
	WQ8	Surface		12/9/2014	< 0.00005	< 0.001	5.42	0.00947	< 0.000005	0.000540	0.000270	0.0200	0.900
L1913531-6	WQ8	Surface		4/12/2017	< 0.000050	< 0.0010	4.45	0.00431	< 0.0000050	0.000465	< 0.00050	< 0.30	0.709
L1926080-3	WQ8	Surface		5/11/2017	< 0.000050	< 0.0010	5.78	0.0143	< 0.0000050	0.000556	< 0.00050	< 0.30	0.896
L1939712-8	WQ8	Surface		6/7/2017	< 0.000050	< 0.0010	4.66	0.00867	< 0.0000050	0.000527	< 0.00050	< 0.30	0.784
L1962414-4	WQ8	Surface		7/19/2017	< 0.000050	< 0.0010	4.75	0.00663	< 0.0000050	0.000517	< 0.00050	< 0.30	0.736
L1984944-6	WQ8	Surface		8/30/2017	< 0.000050	< 0.0010	4.99	0.00943	< 0.0000050	0.000593	< 0.00050	< 0.30	0.795
L1987355-1	WQ8	Surface		9/5/2017	< 0.000050	< 0.0010	5.29	0.0103	< 0.0000050	0.000555	< 0.00050	< 0.30	0.774
L2009845-4	WQ8	Surface		10/17/2017	< 0.000050	< 0.0010	5.10	0.00781	< 0.0000050	0.000547	< 0.00050	< 0.30	0.808
L2020333-4	WQ8	Surface		11/7/2017	< 0.000050	< 0.0010	5.37	0.0703	< 0.0000050	0.000535	< 0.00050	< 0.30	0.745
L2034610-1	WQ8	Surface		12/11/2017	< 0.000050	< 0.0010	4.99	0.00836	< 0.0000050	0.000593	< 0.00050	< 0.30	0.825
L2049224-5	WQ8	Surface	Dup	1/23/2018	< 0.000050	< 0.0010	5.04	0.00563	< 0.0000050	0.000551	< 0.00050	< 0.30	0.872
L2049224-1	WQ8	Surface		1/23/2018	< 0.000050	< 0.0010	4.99	0.00500	< 0.0000050	0.000565	< 0.00050	< 0.30	0.863

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					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2057954-1	WQ8	Surface		2/15/2018	<0.000050	<0.0010	4.70	0.00606	<0.0000050	0.000595	<0.00050	<0.30	0.810
L2073898-2	WQ8	Surface		3/27/2018	<0.000050	<0.0010	4.55	0.00492	<0.0000050	0.000502	<0.00050	<0.30	0.825
L2081503-2	WQ8	Surface		4/17/2018	<0.000050	<0.0010	4.87	0.00479	<0.0000050	0.000532	<0.00050	<0.30	0.867
L2096380-1	WQ8	Surface		5/15/2018	<0.000050	<0.0010	4.57	0.0114	<0.0000050	0.000515	<0.00050	<0.30	0.829
L2104479-2	WQ8	Surface		5/30/2018	<0.000050	<0.0010	4.37	0.00800	<0.0000050	0.000502	<0.00050	<0.30	0.793
L2132128-2	WQ8	Surface		7/17/2018	<0.000050	<0.0010	4.41	0.00433	0.00000540	0.000485	<0.00050	<0.30	0.776
L2144782-1	WQ8	Surface		8/9/2018	<0.000050	<0.0010	4.63	0.0212	<0.0000050	0.000512	<0.00050	<0.30	0.817
L2164448-2	WQ8	Surface		9/12/2018	<0.000050	<0.0010	4.59	0.0146	<0.0000050	0.000561	<0.00050	<0.30	0.813
L2187638-2	WQ8	Surface		10/24/2018	<0.000050	<0.0010	4.82	0.0254	<0.0000050	0.000556	<0.00050	<0.30	0.847
L2203408-3	WQ8	Surface		11/27/2018	<0.000050	<0.0010	4.69	0.0513	<0.0000050	0.000540	<0.00050	<0.30	0.887
L2213684-6	WQ8	Surface	Dup	12/19/2018	<0.000050	<0.0010	4.76	0.0116	0.00000920	0.000524	<0.00050	<0.30	0.862
L2213684-2	WQ8	Surface		12/19/2018	<0.000050	<0.0010	4.72	0.0105	0.00000710	0.000526	<0.00050	<0.30	0.819
L2227101-2	WQ8	Surface		1/29/2019	<0.000050	<0.0010	5.23	0.00482	<0.0000050	0.000578	<0.00050	<0.30	0.944
L2232050-5	WQ8	Surface		2/11/2019	<0.000050	<0.0010	5.13	0.00530	<0.0000050	0.000590	<0.00050	<0.30	0.878
L2245144-1	WQ8	Surface		3/14/2019	<0.000050	<0.0010	4.99	0.00688	<0.0000050	0.000518	<0.00050	<0.30	0.985
L2256054-2	WQ8	Surface		4/9/2019	<0.000050	<0.0010	3.99	0.0101	<0.0000050	0.000578	<0.00050	<0.30	1.03
L2277964-1	WQ8	Surface		5/21/2019	<0.000050	<0.0010	4.64	0.0160	<0.0000050	0.000498	<0.00050	<0.30	0.778
L2286702-2	WQ8	Surface		6/4/2019	<0.000050	<0.0010	4.68	0.00744	<0.0000050	0.000512	<0.00050	<0.30	0.773
L2313851-3	WQ8	Surface		7/18/2019	<0.000050	<0.0010	4.53	0.0104	<0.0000050	0.000513	<0.00050	<0.30	0.745
L2328474-4	WQ8	Surface		8/12/2019	<0.000050	<0.0010	4.25	0.00710	<0.0000050	0.000518	<0.00050	<0.30	0.710
L2349445-2	WQ8	Surface		9/16/2019	<0.000050	<0.0010	4.89	0.00620	<0.0000050	0.000559	<0.00050	<0.30	0.786
L2371052-2	WQ8	Surface		10/22/2019	<0.000050	<0.0010	5.11	0.0107	<0.0000050	0.000555	<0.00050	<0.30	0.885
L2388381-2	WQ8	Surface		11/25/2019	<0.000050	<0.0010	4.43	0.0337	<0.0000050	0.000488	<0.00050	<0.30	0.813
VA19A0791-002	WQ8	Surface		12/17/2019	<0.000050	<0.0010	5.15	0.0143	<0.0000050	0.000503	<0.00050	<0.050	0.849
VA20A0960-002	WQ8	Surface		1/27/2020	<0.000050	<0.0010	4.92	0.0286	<0.0000050	0.000552	<0.00050	<0.050	0.883
VA20A2126-002	WQ8	Surface		2/19/2020	<0.000050	<0.0010	5.43	0.00405	<0.0000050	0.000926	<0.00050	<0.050	0.966
VA20A3691-003	WQ8	Surface		3/18/2020	<0.000050	<0.0010	5.22	0.00256	<0.0000050	0.000584	<0.00050	<0.050	0.907
VA20A4555-003	WQ8	Surface		4/7/2020	<0.000050	<0.0010	5.51	0.00346	<0.0000050	0.000779	<0.00050	<0.050	0.929
VA20A6356-001	WQ8	Surface		5/11/2020	<0.000050	<0.0010	4.72	0.0369	<0.0000050	0.000555	<0.00050	<0.050	0.810
VA20A7797-004	WQ8	Surface		6/3/2020	0.000154	<0.0010	4.68	0.00882	<0.0000050	0.000531	<0.00050	<0.050	0.829
VA20B0021-004	WQ8	Surface		7/7/2020	<0.000050	<0.0010	4.56	0.00581	<0.0000050	0.000488	<0.00050	<0.050	0.793
VA20B2156-005	WQ8	Surface		8/5/2020	<0.000050	<0.0010	4.51	0.00685	<0.0000050	0.000498	<0.00050	<0.050	0.699
VA20B4443-004	WQ8	Surface		9/2/2020	<0.000050	<0.0010	4.35	0.0247	<0.0000050	0.000530	<0.00050	<0.050	0.788
VA20B7624-002	WQ8	Surface		10/6/2020	<0.000050	<0.0010	4.40	0.0154	<0.0000050	0.000549	<0.00050	<0.050	0.770
VA20C0298-002	WQ8	Surface		11/5/2020	0.0000650	<0.0010	5.28	0.0437	<0.0000050	0.000510	<0.00050	0.0660	0.844
	WQ9	Surface	Dup	3/30/2011	< 0.00005	< 0.005	4.83	0.0268	< 0.000008	0.000680	0.000300	< 0.02	0.900
	WQ9	Surface		3/30/2011	< 0.00005	< 0.005	4.89	0.0292	< 0.000008	0.000670	0.000200	0.0200	0.900
	WQ9	Surface	Dup	4/19/2011	< 0.00005	< 0.005	5.00	0.0372	< 0.000008	0.000720	0.000290	0.0300	0.900
	WQ9	Surface		4/19/2011	< 0.00005	< 0.005	4.95	0.0424	< 0.000008	0.000700	0.000320	0.0300	0.900
	WQ9	Surface		5/17/2011	0.0000700	< 0.001	3.44	0.0184	< 0.000008	0.000460	0.000450	0.0200	0.900
	WQ9	Surface		5/24/2011	< 0.00005	< 0.001	3.20	0.0119	< 0.000008	0.000470	0.000470	0.0200	0.900
	WQ9	Surface	Dup	5/30/2011	< 0.00005	< 0.001	3.24	0.0103	< 0.000008	0.000490	0.000480	0.0200	0.900
	WQ9	Surface		5/30/2011	< 0.00005	< 0.001	3.19	0.0101	< 0.000008	0.000500	0.000450	0.0200	0.900
	WQ9	Surface		6/6/2011	< 0.00005	< 0.001	3.44	0.0113	< 0.000008	0.000510	0.000330	< 0.02	0.700

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Lead (Pb)-Total	Lithium (Li)-Total	Magnesium (Mg)-Total	Manganese (Mn)-Total	Mercury (Hg)-Total	Molybdenum (Mo)-Total	Nickel (Ni)-Total	Phosphorus (P)-Total	Potassium (K)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ9	Surface		6/13/2011	< 0.00005	< 0.001	3.54	0.0154	< 0.000008	0.000490	0.000320	< 0.02	0.700
	WQ9	Surface		7/18/2011	< 0.00005	< 0.001	3.38	0.0204	< 0.000008	0.000580	0.000330	< 0.02	0.700
	WQ9	Surface		8/15/2011	< 0.00005	< 0.001	4.19	0.0201	< 0.000008	0.000610	0.000290	< 0.02	0.700
	WQ9	Surface		9/19/2011	< 0.00005	< 0.001	4.15	0.0316	< 0.000008	0.000670	< 0.00005	< 0.02	0.700
	WQ9	Surface		10/17/2011	< 0.00005	< 0.001	4.05	0.0290	< 0.000008	0.000580	0.000160	< 0.02	0.800
	WQ9	Surface		11/14/2011	< 0.00005	< 0.001	4.44	0.0343	< 0.000008	0.000590	0.000280	< 0.02	0.800
	WQ9	Surface		12/12/2011	< 0.00005	< 0.001	4.84	0.0251	< 0.000008	0.000610	0.000180	< 0.02	0.800
	WQ9	Surface		1/12/2012	< 0.00005	< 0.001	4.79	0.0245	< 0.000008	0.000610	0.000230	< 0.02	0.900
	WQ9	Surface		2/13/2012	< 0.00005	< 0.001	4.70	0.0185	< 0.000008	0.000640	0.000240	< 0.02	0.800
	WQ9	Surface		3/12/2012	< 0.00005	< 0.001	4.85	0.0204	< 0.000008	0.000660	0.000260	< 0.02	0.900
	WQ9	Surface		4/17/2012	< 0.00005	< 0.001	4.40	0.0495	< 0.000008	0.000610	0.000350	0.0400	1.30
	WQ9	Surface		5/14/2012	0.0000900	< 0.001	3.45	0.0896	< 0.000005	0.000450	0.000440	0.0300	0.900
	WQ9	Surface	Dup	5/22/2012	0.0000600	< 0.001	3.58	0.0293	< 0.000005	0.000500	0.000200	0.0300	0.700
	WQ9	Surface		5/22/2012	0.000140	< 0.001	3.53	0.0284	< 0.000005	0.000500	0.000120	0.0200	0.700
	WQ9	Surface		5/28/2012	< 0.00005	< 0.001	3.53	0.0303	< 0.000005	0.000460	< 0.00005	< 0.02	0.700
	WQ9	Surface		6/4/2012	< 0.00005	< 0.001	3.63	0.0232	< 0.000005	0.000470	0.000240	< 0.02	0.700
	WQ9	Surface		6/11/2012	< 0.00005	< 0.001	3.54	0.0195	< 0.000005	0.000550	0.000300	< 0.02	0.700
	WQ9	Surface		6/18/2012	< 0.00005	< 0.001	3.69	0.0243	< 0.000005	0.000500	< 0.00005	< 0.02	0.700
	WQ9	Surface		7/16/2012	< 0.00005	< 0.001	4.14	0.0199	< 0.000005	0.000620	0.000250	< 0.02	0.700
	WQ9	Surface		8/13/2012	< 0.00005	< 0.001	4.33	0.0273	< 0.000005	0.000620	0.000250	< 0.02	0.800
	WQ9	Surface		9/17/2012	< 0.00005	< 0.001	4.43	0.0181	< 0.000005	0.000650	0.000480	< 0.02	0.800
	WQ9	Surface		10/16/2012	< 0.00005	< 0.001	4.51	0.0222	< 0.000005	0.000670	0.000140	0.0200	0.800
	WQ9	Surface		11/12/2012	< 0.00005	< 0.001	4.71	0.0360	< 0.000005	0.000550	0.000260	< 0.02	0.800
	WQ9	Surface	Dup	12/10/2012	< 0.00005	< 0.001	5.19	0.0264	< 0.000005	0.000600	0.000200	< 0.02	0.900
	WQ9	Surface		12/10/2012	< 0.00005	< 0.001	5.06	0.0258	< 0.000005	0.000590	0.000190	0.0200	0.900
	WQ9	Surface		1/15/2013	< 0.00005	< 0.001	5.28	0.0223	< 0.000005	0.000610	0.000160	< 0.02	0.900
	WQ9	Surface		2/13/2013	< 0.00005	< 0.001	5.21	0.0173	< 0.000005	0.000600	0.000120	< 0.02	0.900
	WQ9	Surface		3/12/2013	< 0.00005	< 0.001	5.15	0.0162	< 0.000005	0.000640	0.000260	0.0400	0.900
	WQ9	Surface		4/16/2013	< 0.00005	< 0.001	4.51	0.0289	< 0.000005	0.000580	0.000270	0.0200	0.900
	WQ9	Surface		5/14/2013	< 0.00005	< 0.001	3.60	0.0342	< 0.000005	0.000440	0.000280	0.0100	0.700
	WQ9	Surface		5/21/2013	< 0.00005	< 0.001	3.79	0.0276	< 0.000005	0.000480	0.000300	0.0200	0.800
	WQ9	Surface	Dup	5/28/2013	< 0.00005	< 0.001	3.71	0.0197	< 0.000005	0.000500	0.000150	< 0.01	0.800
	WQ9	Surface		5/28/2013	< 0.00005	< 0.001	3.83	0.0180	< 0.000005	0.000490	0.000160	< 0.01	0.800
	WQ9	Surface		6/4/2013	< 0.00005	< 0.001	3.63	0.0173	< 0.000005	0.000490	0.000240	0.0200	0.700
	WQ9	Surface		6/11/2013	< 0.00005	< 0.001	3.89	0.0179	< 0.000005	0.000570	0.000270	< 0.01	0.700
	WQ9	Surface		6/18/2013	< 0.00005	< 0.001	3.50	0.0169	< 0.000005	0.000520	0.000280	0.0200	0.600
	WQ9	Surface		4/13/2014	< 0.00005	< 0.001	4.12	0.0566	< 0.000005	0.000590	0.000350	0.0200	1.20
	WQ9	Surface	Dup	7/2/2014	< 0.00005	< 0.001	4.13	0.0209	< 0.000005	0.000400	< 0.00005	0.0100	0.800
	WQ9	Surface		7/2/2014	< 0.00005	< 0.001	< 0.50	< 0.00005	< 0.000005	< 0.00005	< 0.00005	< 0.01	< 0.5
	WQ9	Surface		9/24/2014	< 0.00005	< 0.001	4.82	0.0250	< 0.000005	0.000710	0.000250	0.0100	0.900
	WQ9	Surface		12/9/2014	< 0.00005	< 0.001	4.84	0.0228	< 0.000005	0.000570	0.000250	0.0200	0.900
L1812856-10	WQ9	Surface		8/10/2016	< 0.000050	< 0.0010	3.94	0.0189	< 0.0000050	0.000634	< 0.00050	< 0.30	0.682
L1815654-10	WQ9	Surface		8/16/2016	< 0.000050	< 0.0010	4.39	0.0186	< 0.0000050	0.000592	< 0.00050	< 0.30	0.763
L1819041-1	WQ9	Surface		8/23/2016	< 0.000050	< 0.0010	4.31	0.0208	< 0.0000050	0.000660	< 0.00050	< 0.30	0.747

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Lead (Pb)-Total	Lithium (Li)-Total	Magnesium (Mg)-Total	Manganese (Mn)-Total	Mercury (Hg)-Total	Molybdenum (Mo)-Total	Nickel (Ni)-Total	Phosphorus (P)-Total	Potassium (K)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1823224-3	WQ9	Surface		8/31/2016	<0.000050	<0.0010	4.38	0.0307	<0.0000050	0.000700	<0.00050	<0.30	0.763
L1826303-6	WQ9	Surface	Dup	9/7/2016	<0.000050	<0.0010	3.79	0.0261	<0.0000050	0.000660	<0.00050	<0.30	0.707
L1826303-10	WQ9	Surface		9/7/2016	<0.000050	<0.0010	2.41	0.00932	<0.0000050	0.000558	<0.00050	<0.30	0.467
L1913531-7	WQ9	Surface		4/12/2017	<0.000050	<0.0010	4.18	0.0340	<0.0000050	0.000557	<0.00050	<0.30	0.783
L1926080-5	WQ9	Surface		5/11/2017	0.0000630	<0.0010	4.27	0.0235	<0.0000050	0.000548	<0.00050	<0.30	0.843
L1939712-9	WQ9	Surface		6/7/2017	<0.000050	<0.0010	3.94	0.0192	<0.0000050	0.000527	<0.00050	<0.30	0.725
L1962414-5	WQ9	Surface		7/19/2017	<0.000050	<0.0010	4.35	0.0243	<0.0000050	0.000613	<0.00050	<0.30	0.717
L1984944-7	WQ9	Surface		8/30/2017	<0.000050	<0.0010	4.83	0.0306	<0.0000050	0.000727	<0.00050	<0.30	0.863
L1988832-5	WQ9	Surface		9/9/2017	<0.000050	<0.0010	4.78	0.0306	<0.0000050	0.000707	<0.00050	<0.30	0.827
L2009845-6	WQ9	Surface	Dup	10/17/2017	<0.000050	<0.0010	3.77	0.0257	<0.000025	0.000676	<0.00050	<0.30	0.748
L2009845-3	WQ9	Surface		10/17/2017	<0.000050	<0.0010	4.10	0.0275	<0.0000050	0.000632	<0.00050	<0.30	0.801
L2020333-3	WQ9	Surface		11/7/2017	<0.000050	<0.0010	4.14	0.0372	<0.0000050	0.000589	<0.00050	<0.30	0.671
L2034610-6	WQ9	Surface	Dup	12/11/2017	<0.000050	<0.0010	4.46	0.0238	<0.0000050	0.000591	<0.00050	<0.30	0.764
L2034610-3	WQ9	Surface		12/11/2017	<0.000050	<0.0010	4.40	0.0233	<0.0000050	0.000623	<0.00050	<0.30	0.760
L2049224-2	WQ9	Surface		1/23/2018	<0.000050	<0.0010	4.50	0.0207	<0.0000050	0.000631	<0.00050	<0.30	0.783
L2057025-1	WQ9	Surface		2/13/2018	<0.000050	<0.0010	4.68	0.0213	<0.0000050	0.000613	<0.00050	<0.30	0.816
L2074294-2	WQ9	Surface		3/28/2018	0.0000640	<0.0010	5.00	0.0281	<0.0000050	0.000682	<0.00050	<0.30	1.46
L2081503-3	WQ9	Surface		4/17/2018	<0.000050	<0.0010	4.71	0.0287	<0.0000050	0.000664	<0.00050	<0.30	1.63
L2097084-2	WQ9	Surface		5/16/2018	<0.000050	<0.0010	3.47	0.0127	<0.0000050	0.000542	<0.00050	<0.30	0.770
L2104479-5	WQ9	Surface	Dup	5/30/2018	<0.000050	<0.0010	3.83	0.0154	<0.0000050	0.000501	<0.00050	<0.30	0.744
L2104479-3	WQ9	Surface		5/30/2018	<0.000050	<0.0010	3.83	0.0153	<0.0000050	0.000509	<0.00050	<0.30	0.770
L2132128-3	WQ9	Surface		7/17/2018	<0.000050	<0.0010	3.99	0.0177	0.00000540	0.000587	<0.00050	<0.30	0.761
L2144782-3	WQ9	Surface		8/9/2018	<0.000050	<0.0010	4.24	0.0296	<0.0000050	0.000626	<0.00050	<0.30	0.795
L2164448-5	WQ9	Surface		9/12/2018	<0.000050	<0.0010	4.39	0.0280	<0.0000050	0.00103	0.000510	<0.30	0.831
L2187638-5	WQ9	Surface		10/24/2018	<0.000050	<0.0010	4.23	0.0301	0.00000620	0.000629	0.000550	<0.30	0.787
L2203408-4	WQ9	Surface		11/27/2018	<0.000050	<0.0010	4.11	0.0360	<0.0000050	0.000585	<0.00050	<0.30	0.827
L2213684-3	WQ9	Surface		12/19/2018	<0.000050	<0.0010	4.46	0.0209	0.00000820	0.000579	<0.00050	<0.30	0.794
L2227101-3	WQ9	Surface		1/29/2019	<0.000050	<0.0010	4.70	0.0165	<0.0000050	0.000630	<0.00050	<0.30	0.929
L2233329-3	WQ9	Surface		2/13/2019	<0.000050	<0.0010	4.47	0.0129	<0.0000050	0.000559	<0.00050	<0.30	0.857
L2245144-3	WQ9	Surface		3/14/2019	0.0000710	<0.0010	4.46	0.0168	<0.0000050	0.000610	<0.00050	<0.30	0.922
L2256054-3	WQ9	Surface		4/9/2019	<0.000050	<0.0010	3.78	0.0244	<0.0000050	0.000804	<0.00050	<0.30	1.12
L2274397-4	WQ9	Surface		5/14/2019	<0.000050	<0.0010	3.62	0.0264	<0.0000050	0.000536	<0.00050	<0.30	0.763
L2286702-3	WQ9	Surface		6/4/2019	<0.000050	<0.0010	4.17	0.0167	<0.0000050	0.000492	<0.00050	<0.30	0.749
L2313851-4	WQ9	Surface		7/18/2019	<0.000050	<0.0010	3.75	0.0203	<0.0000050	0.000541	<0.00050	<0.30	0.663
L2325935-3	WQ9	Surface		8/7/2019	<0.000050	<0.0010	4.13	0.0181	<0.0000050	0.000604	<0.00050	<0.30	0.647
L2349445-3	WQ9	Surface		9/16/2019	<0.000050	<0.0010	4.25	0.0187	<0.0000050	0.000704	<0.00050	<0.30	0.783
L2371052-3	WQ9	Surface		10/22/2019	<0.000050	<0.0010	3.70	0.0203	<0.0000050	0.000599	<0.00050	<0.30	0.736
L2388381-3	WQ9	Surface		11/25/2019	<0.000050	<0.0010	3.63	0.0373	<0.0000050	0.000521	<0.00050	<0.30	0.720
VA19A0791-003	WQ9	Surface		12/17/2019	<0.000050	<0.0010	4.49	0.0206	<0.0000050	0.000596	<0.00050	<0.050	0.770
VA20A0960-005	WQ9	Surface	Dup	1/27/2020	<0.000050	<0.0010	4.50	0.0146	<0.0000050	0.000604	<0.00050	<0.050	0.796
VA20A0960-003	WQ9	Surface		1/27/2020	<0.000050	<0.0010	4.48	0.0142	<0.0000050	0.000586	<0.00050	<0.050	0.788
VA20A2211-003	WQ9	Surface		2/20/2020	<0.000050	<0.0010	4.62	0.0138	<0.0000050	0.000705	<0.00050	<0.050	0.864
VA20A3691-004	WQ9	Surface		3/18/2020	<0.000050	<0.0010	4.98	0.0244	<0.0000050	0.000654	<0.00050	<0.050	0.866
VA20A4555-004	WQ9	Surface		4/7/2020	0.0000850	<0.0010	5.03	0.0417	<0.0000050	0.000657	<0.00050	<0.050	0.893

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Lead (Pb)-Total	Lithium (Li)-Total	Magnesium (Mg)-Total	Manganese (Mn)-Total	Mercury (Hg)-Total	Molybdenum (Mo)-Total	Nickel (Ni)-Total	Phosphorus (P)-Total	Potassium (K)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
VA20A6218-005	WQ9	Surface	Dup	5/7/2020	<0.000050	<0.0010	3.51	0.0102	<0.0000050	0.000463	<0.00050	<0.050	0.746
VA20A6218-003	WQ9	Surface		5/7/2020	<0.000050	<0.0010	3.48	0.0177	<0.0000050	0.000534	<0.00050	<0.050	0.775
VA20A6503-004	WQ9	Surface		5/13/2020	<0.000050	<0.0010	3.52	0.0226	<0.0000050	0.000554	<0.00050	<0.050	0.758
VA20A6869-006	WQ9	Surface	Dup	5/20/2020	<0.000050	<0.0010	3.19	0.0158	<0.0000050	0.000484	<0.00050	<0.050	0.674
VA20A6869-002	WQ9	Surface		5/20/2020	<0.000050	<0.0010	3.46	0.0163	<0.0000050	0.000531	<0.00050	<0.050	0.682
VA20A7367-002	WQ9	Surface		5/28/2020	0.0000580	<0.0010	3.84	0.0218	<0.0000050	0.000553	<0.00050	<0.050	0.719
VA20A7672-003	WQ9	Surface		6/2/2020	<0.000050	<0.0010	3.60	0.0135	<0.0000050	0.000550	<0.00050	<0.050	0.703
VA20A9918-002	WQ9	Surface		7/6/2020	<0.000050	<0.0010	3.53	0.0163	<0.0000050	0.000593	<0.00050	<0.050	0.705
VA20B2156-006	WQ9	Surface		8/5/2020	<0.000050	<0.0010	4.14	0.0159	<0.0000050	0.000647	<0.00050	<0.050	0.741
VA20B2426-001	WQ9	Surface		8/10/2020	<0.000050	<0.0010	4.22	0.0216	<0.0000050	0.000682	<0.00050	<0.050	0.759
VA20B3033-005	WQ9	Surface	Dup	8/17/2020	<0.000050	<0.0010	4.08	0.0258	<0.0000050	0.000700	<0.00050	0.0610	0.817
VA20B3033-003	WQ9	Surface		8/17/2020	<0.000050	<0.0010	4.10	0.0272	<0.0000050	0.000715	<0.00050	<0.050	0.812
VA20B3609-003	WQ9	Surface		8/24/2020	<0.000050	<0.0010	4.06	0.0312	<0.0000050	0.000680	<0.00050	<0.050	0.732
VA20B4443-005	WQ9	Surface		9/2/2020	<0.000050	<0.0010	3.84	0.0267	<0.0000050	0.000622	<0.00050	<0.050	0.777
VA20B7624-003	WQ9	Surface		10/6/2020	<0.000050	<0.0010	3.87	0.0219	<0.0000050	0.000655	<0.00050	<0.050	0.790
VA20C0298-003	WQ9	Surface		11/5/2020	0.0000590	<0.0010	3.10	0.0236	<0.0000050	0.000542	<0.00050	<0.050	0.744

Notes:

"-" indicates parameter was not analyzed.

"<" value is below the detection limit

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Selenium (Se)-Total	Silicon (Si)-Total	Silver (Ag)-Total	Sodium (Na)-Total	Strontium (Sr)-Total	Sulfur (S)-Total	Thallium (Tl)-Total	Tin (Sn)-Total	Titanium (Ti)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1989016-1	BI-09	Surface		9/7/2017	0.0000530	4.49	<0.000010	2.90	0.0791	<0.50	<0.000010	<0.000010	<0.010
L2049224-4	BI-09	Surface		1/23/2018	<0.000050	4.64	<0.000010	2.30	0.0579	<0.50	<0.000010	<0.000010	<0.010
L2062480-1	BI-09	Surface		2/27/2018	<0.000050	3.82	<0.000010	2.30	0.0575	<0.50	<0.000010	<0.000010	<0.010
L2073898-1	BI-09	Surface		3/27/2018	<0.000050	3.68	<0.000010	2.10	0.0578	0.760	<0.000010	<0.000010	<0.010
L2081505-2	BI-09	Surface	Dup	4/16/2018	<0.000050	4.37	<0.000010	2.40	0.0659	0.520	<0.000010	<0.000010	<0.010
L2081505-1	BI-09	Surface		4/16/2018	<0.000050	4.41	<0.000010	2.40	0.0630	<0.50	<0.000010	<0.000010	<0.010
L2096380-2	BI-09	Surface		5/15/2018	0.0000610	3.63	<0.000010	<2.0	0.0334	<0.50	<0.000010	<0.000010	<0.010
L2102737-3	BI-09	Surface		5/28/2018	0.0000600	4.37	<0.000010	<2.0	0.0412	<0.50	<0.000010	<0.000010	<0.010
L2132128-4	BI-09	Surface		7/17/2018	0.0000650	4.28	<0.000010	2.10	0.0550	<0.50	<0.000010	<0.000010	<0.010
L2144658-1	BI-09	Surface		8/8/2018	<0.000050	4.16	<0.000010	2.20	0.0626	0.540	<0.000010	<0.000010	<0.010
L2163669-1	BI-09	Surface		9/11/2018	<0.000050	3.49	<0.000010	2.50	0.0673	<0.50	<0.000010	<0.000010	<0.010
L2187638-1	BI-09	Surface		10/24/2018	<0.000050	4.24	<0.000010	2.10	0.0534	<0.50	<0.000010	<0.000010	<0.010
L2204086-3	BI-09	Surface		11/28/2018	<0.000050	4.69	<0.000010	<2.0	0.0475	<0.50	<0.000010	<0.000010	<0.010
L2213684-5	BI-09	Surface		12/19/2018	<0.000050	4.10	<0.000010	2.00	0.0576	0.700	<0.000010	<0.000010	<0.010
L2227101-5	BI-09	Surface		1/29/2019	<0.000050	3.97	<0.000010	2.20	0.0597	<0.50	<0.000010	<0.000010	<0.010
L2233329-6	BI-09	Surface	Dup	2/13/2019	<0.000050	3.84	<0.000010	2.30	0.0584	0.580	<0.000010	<0.000010	<0.010
L2233329-4	BI-09	Surface		2/13/2019	<0.000050	3.66	<0.000010	2.20	0.0620	0.550	<0.000010	<0.000010	<0.010
L2245144-5	BI-09	Surface		3/14/2019	<0.000050	3.56	<0.000010	2.20	0.0613	<0.50	<0.000010	<0.000010	<0.010
L2256054-5	BI-09	Surface		4/9/2019	<0.000050	5.06	<0.000010	<2.0	0.0515	<0.50	<0.000010	<0.000010	<0.010
L2282191-3	BI-09	Surface		5/28/2019	<0.000050	3.14	<0.000010	<2.0	0.0341	<0.50	<0.000010	<0.000010	<0.010
L2285579-1	BI-09	Surface		6/3/2019	<0.000050	4.06	<0.000010	<2.0	0.0464	<0.50	<0.000010	<0.000010	<0.010
L2313851-5	BI-09	Surface	Dup	7/18/2019	0.0000510	4.58	<0.000010	<2.0	0.0455	<0.50	<0.000010	<0.000010	<0.010
L2313851-1	BI-09	Surface		7/18/2019	0.0000530	4.58	<0.000010	<2.0	0.0468	<0.50	<0.000010	<0.000010	<0.010
L2329543-3	BI-09	Surface		8/13/2019	<0.000050	4.78	<0.000010	<2.0	0.0544	<0.50	<0.000010	<0.000010	<0.010
L2350223-4	BI-09	Surface		9/17/2019	<0.000050	4.38	<0.000010	2.10	0.0573	<0.50	<0.000010	<0.000010	<0.010
L2371052-5	BI-09	Surface		10/22/2019	0.0000500	4.73	<0.000010	<2.0	0.0483	<0.50	<0.000010	<0.000010	<0.010
L2378996-1	BI-09	Surface		11/5/2019	<0.000050	4.79	<0.000010	<2.0	0.0457	<0.50	<0.000010	<0.000010	<0.010
VA19A0726-005	BI-09	Surface		12/16/2019	<0.000050	5.02	<0.000010	1.94	0.0533	<0.50	<0.000010	<0.000010	0.00215
VA20A2126-001	BI-09	Surface		2/19/2020	<0.000050	4.76	<0.000010	2.30	0.0615	0.600	<0.000010	<0.000010	0.00122
VA20A7202-005	BI-09	Surface	Dup	5/26/2020	<0.000050	4.32	<0.000010	1.58	0.0270	<0.50	<0.000010	<0.000010	0.00138
VA20A7202-002	BI-09	Surface		5/26/2020	<0.000050	3.88	<0.000010	1.34	0.0342	<0.50	<0.000010	<0.000010	0.00138
VA20B2212-001	BI-09	Surface		8/6/2020	<0.000050	4.89	<0.000010	2.02	0.0576	<0.50	<0.000010	<0.000010	0.00674
VA20C0197-002	BI-09	Surface		11/4/2020	0.0000760	4.68	<0.000010	1.56	0.0449	<0.50	<0.000010	<0.000010	0.00748
L1989016-2	BI-12	Surface		9/7/2017	<0.000050	3.72	<0.000010	2.60	0.0700	<0.50	<0.000010	<0.000010	<0.010
L1762266-1	BI-13	Surface		4/27/2016	<0.000050	3.84	<0.000010	<2.0	0.0251	-	<0.000010	<0.000010	<0.010
L1764648-4	BI-13	Surface		5/3/2016	<0.000050	3.73	<0.000010	<2.0	0.0226	-	<0.000010	<0.000010	<0.010
L1767107-1	BI-13	Surface		5/9/2016	0.0000550	3.99	<0.000010	<2.0	0.0251	-	<0.000010	<0.000010	<0.010
L1770672-2	BI-13	Surface		5/16/2016	<0.000050	4.12	0.0000130	<2.0	0.0291	-	<0.000010	<0.000010	<0.010
L1774541-4	BI-13	Surface	Dup	5/25/2016	0.0000510	4.20	<0.000010	<2.0	0.0303	-	<0.000010	<0.000010	<0.010
L1774541-6	BI-13	Surface		5/25/2016	<0.000050	4.18	<0.000010	<2.0	0.0301	-	<0.000010	<0.000010	<0.010
L1788643-4	BI-13	Surface		6/22/2016	<0.000050	3.81	<0.000010	<2.0	0.0259	-	<0.000010	<0.000010	<0.010
L1808945-4	BI-13	Surface		8/3/2016	0.0000520	5.38	<0.000010	<2.0	0.0405	-	<0.000010	<0.000010	<0.010
L1812856-4	BI-13	Surface	Dup	8/10/2016	<0.000050	5.01	<0.000010	<2.0	0.0371	-	<0.000010	<0.000010	<0.010
L1812856-6	BI-13	Surface		8/10/2016	<0.000050	5.17	<0.000010	<2.0	0.0370	-	<0.000010	<0.000010	<0.010

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Selenium (Se)-Total	Silicon (Si)-Total	Silver (Ag)-Total	Sodium (Na)-Total	Strontium (Sr)-Total	Sulfur (S)-Total	Thallium (Tl)-Total	Tin (Sn)-Total	Titanium (Ti)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1815654-4	BI-13	Surface		8/16/2016	<0.000050	5.27	<0.000010	<2.0	0.0436	-	<0.000010	<0.00010	<0.010
L1819041-7	BI-13	Surface		8/23/2016	0.0000610	4.63	<0.000010	<2.0	0.0366	-	<0.000010	<0.00010	<0.010
L1823224-7	BI-13	Surface		8/31/2016	<0.000050	5.01	<0.000010	<2.0	0.0367	-	<0.000010	<0.00010	<0.010
L1826303-1	BI-13	Surface		9/7/2016	<0.000050	4.32	<0.000010	<2.0	0.0314	-	<0.000010	<0.00010	<0.010
L1988832-6	BI-13	Surface		9/9/2017	<0.000050	5.24	<0.000010	2.40	0.0552	<0.50	<0.000010	<0.00010	<0.010
	WQ1	Surface		5/17/2011	< 0.0006	4.03	< 0.00005	1.40	0.0275	-	< 0.00005	< 0.0001	0.00350
	WQ1	Surface		5/24/2011	< 0.0006	3.64	< 0.00005	1.30	0.0217	-	< 0.00005	< 0.0001	0.00340
	WQ1	Surface		5/30/2011	< 0.0006	3.92	< 0.00005	1.20	0.0196	-	< 0.00005	< 0.0001	0.00450
	WQ1	Surface	Dup	6/6/2011	< 0.0006	3.39	< 0.00005	1.00	0.0149	-	< 0.00005	< 0.0001	0.00370
	WQ1	Surface		6/6/2011	< 0.0006	3.45	< 0.00005	1.00	0.0147	-	< 0.00005	< 0.0001	0.00410
	WQ1	Surface		6/13/2011	< 0.0006	3.72	< 0.00005	1.10	0.0139	-	< 0.00005	< 0.0001	0.00190
	WQ1	Surface		7/18/2011	< 0.0006	5.20	< 0.00005	1.50	0.0182	-	< 0.00005	< 0.0001	0.00190
	WQ1	Surface		8/15/2011	< 0.0006	5.47	< 0.00005	1.80	0.0193	-	< 0.00005	< 0.0001	0.00220
	WQ1	Surface		9/19/2011	< 0.0006	5.72	< 0.00005	1.90	0.0212	-	< 0.00005	< 0.0001	0.000800
	WQ1	Surface		10/17/2011	< 0.0006	5.79	< 0.00005	1.80	0.0187	-	< 0.00005	< 0.0001	0.00250
	WQ1	Surface		11/14/2011	< 0.0006	5.73	< 0.00005	2.00	0.0202	-	< 0.00005	< 0.0001	0.00950
	WQ1	Surface		5/15/2012	< 0.0006	4.54	< 0.00005	1.80	0.0267	-	< 0.00005	< 0.0001	0.0111
	WQ1	Surface		5/23/2012	< 0.0006	4.52	< 0.00005	1.70	0.0239	-	< 0.00005	< 0.0001	0.00780
	WQ1	Surface		5/28/2012	< 0.0006	4.03	< 0.00005	1.50	0.0195	-	< 0.00005	< 0.0001	0.00480
	WQ1	Surface		6/4/2012	< 0.0006	4.48	< 0.00005	1.40	0.0180	-	< 0.00005	< 0.0001	0.00650
	WQ1	Surface		6/11/2012	< 0.0006	4.28	< 0.00005	1.30	0.0151	-	< 0.00005	< 0.0001	0.00920
	WQ1	Surface		6/18/2012	< 0.0006	4.38	< 0.00005	1.30	0.0160	-	< 0.00005	< 0.0001	0.00470
	WQ1	Surface		7/16/2012	< 0.0006	6.20	< 0.00005	1.80	0.0199	-	< 0.00005	< 0.0001	0.00620
	WQ1	Surface		8/13/2012	< 0.0006	6.93	< 0.00005	3.60	0.0340	-	< 0.00005	< 0.0001	0.0173
	WQ1	Surface		9/17/2012	< 0.0006	6.66	< 0.00005	2.40	0.0271	-	< 0.00005	< 0.0001	0.00170
	WQ1	Surface		10/16/2012	< 0.0006	5.84	< 0.00005	2.50	0.0302	-	< 0.00005	< 0.0001	0.00290
	WQ1	Surface		11/12/2012	< 0.0006	6.75	< 0.00005	2.30	0.0247	-	< 0.00005	< 0.0001	0.00140
	WQ1	Surface		12/10/2012	< 0.0006	6.47	< 0.00005	2.40	0.0268	-	< 0.00005	< 0.0001	0.00130
	WQ1	Surface		5/14/2013	< 0.0001	3.35	< 0.00005	1.30	0.0179	-	< 0.00005	< 0.0001	0.00600
	WQ1	Surface	Dup	5/21/2013	< 0.0001	3.80	< 0.00005	1.40	0.0170	-	< 0.00005	< 0.0001	0.00390
	WQ1	Surface		5/21/2013	< 0.0001	3.81	< 0.00005	1.40	0.0186	-	< 0.00005	< 0.0001	0.00370
	WQ1	Surface		5/28/2013	< 0.0001	3.51	< 0.00005	1.40	0.0174	-	< 0.00005	< 0.0001	0.00500
	WQ1	Surface		6/4/2013	< 0.0001	3.96	< 0.00005	1.40	0.0153	-	< 0.00005	< 0.0001	0.00310
	WQ1	Surface		6/11/2013	< 0.0001	3.92	< 0.00005	1.40	0.0163	-	< 0.00005	< 0.0001	0.00250
	WQ1	Surface		6/18/2013	< 0.0001	4.13	< 0.00005	1.50	0.0170	-	< 0.00005	< 0.0001	0.00190
VA20A2211-005	WQ1	Surface	Dup	2/20/2020	<0.000050	6.09	<0.000010	2.25	0.0267	1.01	<0.000010	<0.00010	0.00134
VA20A2211-001	WQ1	Surface		2/20/2020	<0.000050	6.24	<0.000010	2.26	0.0279	0.950	<0.000010	<0.00010	0.00156
VA20A6810-001	WQ1	Surface		5/19/2020	<0.000050	3.67	<0.000010	1.26	0.0175	<0.50	<0.000010	<0.00010	0.00305
VA20B2212-002	WQ1	Surface		8/6/2020	<0.000050	5.59	<0.000010	1.95	0.0260	<0.50	<0.000010	<0.00010	0.00262
VA20C1415-001	WQ1	Surface		11/19/2020	<0.000050	5.54	<0.000010	1.65	0.0172	<0.50	<0.000010	<0.00010	0.00158
	WQ10	Surface		3/30/2011	< 0.0006	6.23	< 0.00005	3.20	0.0965	-	< 0.00005	< 0.0001	0.000400
	WQ10	Surface		4/19/2011	< 0.0006	6.36	< 0.00005	3.40	0.101	-	< 0.00005	< 0.0001	0.000500
	WQ10	Surface		5/17/2011	< 0.0006	4.76	< 0.00005	1.50	0.0338	-	< 0.00005	< 0.0001	0.0137
	WQ10	Surface		5/25/2011	< 0.0006	4.42	< 0.00005	1.40	0.0265	-	< 0.00005	< 0.0001	0.00850

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Selenium (Se)-Total	Silicon (Si)-Total	Silver (Ag)-Total	Sodium (Na)-Total	Strontium (Sr)-Total	Sulfur (S)-Total	Thallium (Tl)-Total	Tin (Sn)-Total	Titanium (Ti)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ10	Surface		5/31/2011	< 0.0006	4.55	< 0.00005	1.30	0.0259	-	< 0.00005	< 0.0001	0.00640
	WQ10	Surface		6/7/2011	< 0.0006	4.03	< 0.00005	1.20	0.0230	-	< 0.00005	< 0.0001	0.00600
	WQ10	Surface		6/14/2011	< 0.0006	4.23	< 0.00005	1.30	0.0241	-	< 0.00005	< 0.0001	0.00250
	WQ10	Surface		7/19/2011	< 0.0006	5.35	< 0.00005	1.80	0.0347	-	< 0.00005	< 0.0001	0.00260
	WQ10	Surface		8/16/2011	< 0.0006	5.55	< 0.00005	2.30	0.0535	-	< 0.00005	< 0.0001	0.00190
	WQ10	Surface		9/20/2011	< 0.0006	5.98	< 0.00005	3.00	0.0819	-	< 0.00005	< 0.0001	0.000300
	WQ10	Surface		10/18/2011	< 0.0006	6.05	< 0.00005	2.40	0.0574	-	< 0.00005	< 0.0001	0.000700
	WQ10	Surface		11/15/2011	< 0.0006	6.06	< 0.00005	2.60	0.0672	-	< 0.00005	< 0.0001	0.000800
	WQ10	Surface		12/12/2011	< 0.0006	6.61	< 0.00005	3.00	0.0807	-	< 0.00005	< 0.0001	0.000500
	WQ10	Surface		1/12/2012	< 0.0006	7.56	< 0.00005	3.10	0.0886	-	< 0.00005	< 0.0001	0.00170
	WQ10	Surface		2/13/2012	< 0.0006	6.38	< 0.00005	3.10	0.0925	-	< 0.00005	< 0.0001	0.000400
	WQ10	Surface		3/12/2012	< 0.0006	7.81	< 0.00005	3.30	0.0944	-	< 0.00005	< 0.0001	0.000200
	WQ10	Surface		4/16/2012	< 0.0006	6.48	< 0.00005	3.10	0.0761	-	< 0.00005	< 0.0001	0.00270
	WQ10	Surface		5/14/2012	< 0.0006	4.67	< 0.00005	1.70	0.0340	-	< 0.00005	< 0.0001	0.00530
	WQ10	Surface		5/22/2012	< 0.0006	4.45	< 0.00005	1.60	0.0327	-	< 0.00005	< 0.0001	0.00580
	WQ10	Surface		5/29/2012	< 0.0006	4.49	< 0.00005	1.70	0.0291	-	< 0.00005	< 0.0001	0.00370
	WQ10	Surface		6/5/2012	< 0.0006	4.57	< 0.00005	1.60	0.0285	-	< 0.00005	< 0.0001	0.00340
	WQ10	Surface		6/12/2012	< 0.0006	4.65	< 0.00005	1.50	0.0317	-	< 0.00005	< 0.0001	0.00600
	WQ10	Surface		6/19/2012	< 0.0006	4.79	< 0.00005	1.70	0.0286	-	< 0.00005	< 0.0001	0.00290
	WQ10	Surface		7/17/2012	< 0.0006	6.43	< 0.00005	2.40	0.0521	-	< 0.00005	< 0.0001	0.00110
	WQ10	Surface		8/14/2012	< 0.0006	6.56	< 0.00005	2.90	0.0710	-	< 0.00005	< 0.0001	0.00120
	WQ10	Surface		9/18/2012	< 0.0006	6.64	< 0.00005	3.10	0.0859	-	< 0.00005	< 0.0001	0.000400
	WQ10	Surface		10/15/2012	< 0.0006	6.07	< 0.00005	3.60	0.0894	-	< 0.00005	< 0.0001	0.000400
	WQ10	Surface		11/13/2012	< 0.0006	6.71	< 0.00005	3.20	0.0788	-	< 0.00005	< 0.0001	0.000600
	WQ10	Surface		1/13/2013	< 0.0006	6.90	< 0.00005	3.60	0.0989	-	< 0.00005	< 0.0001	0.000300
	WQ10	Surface		2/12/2013	< 0.0006	6.47	< 0.00005	3.70	0.0910	-	< 0.00005	< 0.0001	0.000200
	WQ10	Surface		3/11/2013	< 0.0006	5.69	< 0.00005	3.80	0.0983	-	< 0.00005	< 0.0001	0.000300
	WQ10	Surface		4/15/2013	< 0.0001	5.58	< 0.00005	2.70	0.0747	-	< 0.00005	< 0.0001	0.00120
	WQ10	Surface		5/13/2013	< 0.0001	3.53	< 0.00005	1.40	0.0285	-	< 0.00005	< 0.0001	0.00520
	WQ10	Surface		5/22/2013	< 0.0001	4.04	0.0000800	1.60	0.0315	-	< 0.00005	< 0.0001	0.00320
	WQ10	Surface		5/27/2013	< 0.0001	3.87	< 0.00005	1.70	0.0278	-	< 0.00005	< 0.0001	0.00420
	WQ10	Surface		6/6/2013	< 0.0001	4.52	< 0.00005	1.60	0.0293	-	< 0.00005	< 0.0001	0.00260
	WQ10	Surface		6/10/2013	< 0.0001	4.19	< 0.00005	1.70	0.0336	-	< 0.00005	< 0.0001	0.00200
	WQ10	Surface		6/17/2013	< 0.0001	4.29	< 0.00005	1.70	0.0332	-	< 0.00005	< 0.0001	0.00180
	WQ10	Surface		4/13/2014	< 0.0001	5.50	< 0.00005	3.10	0.0861	-	< 0.00005	< 0.0001	0.000300
	WQ10	Surface		7/2/2014	< 0.0001	5.39	< 0.00005	2.30	0.0527	-	< 0.00005	< 0.0001	0.000900
	WQ10	Surface	Dup	9/24/2014	< 0.0001	5.83	< 0.00005	3.80	0.111	-	< 0.00005	< 0.0001	0.000200
	WQ10	Surface		9/24/2014	< 0.0001	5.81	< 0.00005	3.80	0.113	-	< 0.00005	< 0.0001	0.000200
	WQ10	Surface		12/8/2014	< 0.0001	6.54	< 0.00005	3.40	0.0935	-	< 0.00005	< 0.0001	0.000300
L1913006-3	WQ10	Surface		4/11/2017	0.0000820	6.16	< 0.000010	3.20	0.0864	-	< 0.000010	< 0.00010	< 0.010
L1925486-1	WQ10	Surface		5/10/2017	< 0.000050	4.83	0.0000220	< 2.0	0.0347	-	< 0.000010	< 0.00010	< 0.010
L1939712-10	WQ10	Surface		6/7/2017	< 0.000050	4.74	< 0.000010	< 2.0	0.0305	-	< 0.000010	< 0.00010	< 0.010
L1961670-2	WQ10	Surface		7/18/2017	0.0000770	5.49	< 0.000010	2.50	0.0629	-	< 0.000010	< 0.00010	< 0.010
L1984944-10	WQ10	Surface	Dup	8/30/2017	0.0000700	6.23	< 0.000010	3.60	0.106	1.09	< 0.000010	< 0.00010	< 0.010

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Selenium (Se)-Total	Silicon (Si)-Total	Silver (Ag)-Total	Sodium (Na)-Total	Strontium (Sr)-Total	Sulfur (S)-Total	Thallium (Tl)-Total	Tin (Sn)-Total	Titanium (Ti)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1984944-1	WQ10	Surface		8/30/2017	0.0000690	6.24	<0.000010	3.70	0.107	1.02	<0.000010	<0.00010	<0.010
L1988832-1	WQ10	Surface		9/8/2017	0.0000730	5.95	<0.000010	3.60	0.102	0.640	<0.000010	<0.00010	<0.010
L2011329-2	WQ10	Surface		10/19/2017	0.0000630	5.68	<0.000010	2.50	0.0520	0.920	<0.000010	<0.00010	<0.010
L2020946-1	WQ10	Surface		11/8/2017	<0.000050	5.83	<0.000010	2.20	0.0486	0.590	<0.000010	<0.00010	<0.010
L2035356-4	WQ10	Surface		12/12/2017	0.0000720	5.96	<0.000010	2.60	0.0609	0.740	<0.000010	<0.00010	<0.010
L2049678-2	WQ10	Surface		1/24/2018	0.000110	6.26	<0.000010	2.90	0.0768	0.680	<0.000010	<0.00010	<0.010
L2057025-2	WQ10	Surface		2/13/2018	<0.000050	6.05	<0.000010	3.10	0.0805	0.880	<0.000010	<0.00010	<0.010
L2074294-8	WQ10	Surface	Dup	3/28/2018	0.0000800	5.88	<0.000010	3.00	0.0867	1.09	<0.000010	<0.00010	<0.010
L2074294-3	WQ10	Surface		3/28/2018	0.0000780	5.90	<0.000010	3.00	0.0875	0.860	<0.000010	<0.00010	<0.010
L2081503-4	WQ10	Surface		4/17/2018	0.0000650	6.22	<0.000010	3.20	0.0823	1.15	<0.000010	<0.00010	<0.010
L2097084-3	WQ10	Surface		5/16/2018	<0.000050	4.49	0.0000130	<2.0	0.0230	<0.50	<0.000010	<0.00010	<0.010
L2103632-3	WQ10	Surface		5/29/2018	0.0000600	4.68	<0.000010	<2.0	0.0283	<0.50	<0.000010	<0.00010	<0.010
L2132986-2	WQ10	Surface		7/18/2018	0.0000530	5.61	<0.000010	2.50	0.0600	<0.50	<0.000010	<0.00010	<0.010
L2143640-6	WQ10	Surface		8/7/2018	0.0000550	5.86	<0.000010	2.90	0.0688	0.770	<0.000010	<0.00010	<0.010
L2163669-2	WQ10	Surface		9/11/2018	0.0000600	5.73	<0.000010	3.40	0.0816	0.920	<0.000010	<0.00010	<0.010
L2188218-1	WQ10	Surface		10/26/2018	0.0000630	6.40	<0.000010	2.50	0.0596	0.800	<0.000010	<0.00010	<0.010
L2204508-3	WQ10	Surface		11/29/2018	0.0000610	6.10	<0.000010	2.10	0.0492	<0.50	<0.000010	<0.00010	<0.010
L2213246-1	WQ10	Surface		12/18/2018	0.0000590	6.55	<0.000010	2.60	0.0621	0.570	<0.000010	<0.00010	<0.010
L2227701-1	WQ10	Surface		1/30/2019	0.0000820	6.08	<0.000010	3.00	0.0728	0.940	<0.000010	<0.00010	<0.010
L2232050-6	WQ10	Surface		2/11/2019	0.0000600	6.12	<0.000010	3.00	0.0793	0.930	<0.000010	0.000130	<0.010
L2244756-1	WQ10	Surface		3/13/2019	0.000104	6.14	<0.000010	3.30	0.0958	0.630	<0.000010	<0.00010	<0.010
L2256053-5	WQ10	Surface	Dup	4/8/2019	0.0000910	6.34	<0.000010	2.90	0.0716	0.780	<0.000010	<0.00010	<0.010
L2256053-1	WQ10	Surface		4/8/2019	<0.000050	6.36	<0.000010	2.80	0.0730	0.790	<0.000010	<0.00010	<0.010
L2273497-1	WQ10	Surface		5/13/2019	<0.000050	4.56	0.0000110	<2.0	0.0298	<0.50	<0.000010	<0.00010	<0.010
L2285579-6	WQ10	Surface		6/3/2019	<0.000050	5.02	<0.000010	<2.0	0.0338	<0.50	<0.000010	<0.00010	<0.010
L2312637-1	WQ10	Surface		7/16/2019	<0.000050	5.54	<0.000010	2.10	0.0419	<0.50	<0.000010	<0.00010	<0.010
L2326388-1	WQ10	Surface		8/8/2019	0.0000600	6.08	<0.000010	2.20	0.0458	<0.50	<0.000010	<0.00010	<0.010
L2350223-1	WQ10	Surface		9/17/2019	0.0000750	5.80	<0.000010	2.60	0.0561	0.520	<0.000010	<0.00010	<0.010
L2372667-1	WQ10	Surface		10/23/2019	0.0000610	6.07	<0.000010	2.20	0.0470	0.560	<0.000010	<0.00010	<0.010
L2383392-1	WQ10	Surface		11/14/2019	<0.000050	6.25	<0.000010	2.10	0.0366	<0.50	<0.000010	<0.00010	<0.010
VA19A0726-004	WQ10	Surface		12/16/2019	<0.000050	6.45	<0.000010	2.30	0.0467	<0.50	<0.000010	<0.00010	0.00111
VA20A0812-001	WQ10	Surface		1/23/2020	0.0000610	6.52	<0.000010	2.62	0.0609	0.570	<0.000010	<0.00010	0.000610
VA20A1887-001	WQ10	Surface		2/13/2020	0.0000930	6.43	<0.000010	2.77	0.0681	0.690	<0.000010	<0.00010	0.000400
VA20A3516-001	WQ10	Surface		3/16/2020	0.0000860	6.39	<0.000010	3.03	0.0789	0.800	<0.000010	<0.00010	0.000350
VA20A4369-001	WQ10	Surface		4/1/2020	0.0000680	6.17	<0.000010	3.35	0.0790	0.760	<0.000010	<0.00010	0.000470
VA20A6218-001	WQ10	Surface		5/7/2020	<0.000050	4.90	<0.000010	1.56	0.0328	<0.50	<0.000010	<0.00010	0.00278
VA20A6356-002	WQ10	Surface		5/11/2020	<0.000050	4.79	<0.000010	1.48	0.0314	<0.50	<0.000010	<0.00010	0.00421
VA20A6810-003	WQ10	Surface		5/19/2020	<0.000050	4.11	<0.000010	1.43	0.0276	<0.50	<0.000010	<0.00010	0.00317
VA20A7202-003	WQ10	Surface		5/26/2020	<0.000050	4.35	<0.000010	1.34	0.0238	<0.50	<0.000010	<0.00010	0.00119
VA20A7672-002	WQ10	Surface		6/2/2020	0.0000620	4.64	<0.000010	1.64	0.0300	<0.50	<0.000010	<0.00010	0.00126
VA20A9918-003	WQ10	Surface		7/6/2020	<0.000050	5.32	<0.000010	1.97	0.0376	<0.50	<0.000010	<0.00010	0.00144
VA20B2156-008	WQ10	Surface	Dup	8/5/2020	<0.000050	5.72	<0.000010	2.55	0.0613	<0.50	<0.000010	<0.00010	0.000540
VA20B2156-001	WQ10	Surface		8/5/2020	0.000108	5.72	<0.000010	2.61	0.0618	<0.50	<0.000010	<0.00010	0.00100
VA20B2426-004	WQ10	Surface		8/10/2020	<0.000050	5.92	<0.000010	2.70	0.0597	<0.50	<0.000010	<0.00010	0.000920

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					Selenium (Se)-Total	Silicon (Si)-Total	Silver (Ag)-Total	Sodium (Na)-Total	Strontium (Sr)-Total	Sulfur (S)-Total	Thallium (Tl)-Total	Tin (Sn)-Total	Titanium (Ti)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
VA20B3264-002	WQ10	Surface		8/19/2020	0.0000640	6.36	<0.000010	2.68	0.0616	<0.50	<0.000010	<0.00010	0.000680
VA20B3609-001	WQ10	Surface		8/24/2020	<0.000050	5.59	<0.000010	2.62	0.0580	<0.50	<0.000010	<0.00010	0.000930
VA20B4313-001	WQ10	Surface		9/1/2020	0.0000590	5.94	<0.000010	2.66	0.0626	<0.50	<0.000010	<0.00010	0.000720
VA20B7624-004	WQ10	Surface		10/6/2020	0.0000560	5.92	<0.000010	2.97	0.0667	<0.50	<0.000010	<0.00010	0.000430
VA20C0197-003	WQ10	Surface		11/4/2020	0.0000680	5.51	<0.000010	1.69	0.0339	<0.50	<0.000010	<0.00010	0.00502
	WQ11	Surface		3/30/2011	< 0.0006	6.26	< 0.00005	3.50	0.120	-	< 0.00005	< 0.0001	0.00210
	WQ11	Surface		4/19/2011	< 0.0006	6.14	< 0.00005	3.30	0.0957	-	< 0.00005	< 0.0001	0.00170
	WQ11	Surface		5/17/2011	< 0.0006	4.71	< 0.00005	1.60	0.0387	-	< 0.00005	< 0.0001	0.0135
	WQ11	Surface		5/25/2011	< 0.0006	4.98	< 0.00005	1.60	0.0312	-	< 0.00005	< 0.0001	0.0100
	WQ11	Surface		5/31/2011	< 0.0006	5.04	< 0.00005	1.50	0.0307	-	< 0.00005	< 0.0001	0.00650
	WQ11	Surface		6/6/2011	< 0.0006	4.98	< 0.00005	1.40	0.0285	-	< 0.00005	< 0.0001	0.0119
	WQ11	Surface		6/13/2011	< 0.0006	5.11	< 0.00005	1.60	0.0315	-	< 0.00005	< 0.0001	0.00400
	WQ11	Surface		7/18/2011	< 0.0006	6.60	< 0.00005	1.90	0.0396	-	< 0.00005	< 0.0001	0.00550
	WQ11	Surface		8/15/2011	< 0.0006	6.40	< 0.00005	2.40	0.0587	-	< 0.00005	< 0.0001	0.00370
	WQ11	Surface		9/19/2011	< 0.0006	6.37	< 0.00005	3.20	0.0956	-	< 0.00005	< 0.0001	0.000700
	WQ11	Surface		10/17/2011	< 0.0006	6.63	< 0.00005	2.50	0.0624	-	< 0.00005	< 0.0001	0.00300
	WQ11	Surface		11/14/2011	< 0.0006	6.31	< 0.00005	2.60	0.0715	-	< 0.00005	< 0.0001	0.00270
	WQ11	Surface		12/12/2011	< 0.0006	7.08	< 0.00005	3.10	0.0931	-	< 0.00005	< 0.0001	0.00210
	WQ11	Surface		5/15/2012	< 0.0006	4.85	< 0.00005	1.80	0.0353	-	< 0.00005	< 0.0001	0.00510
	WQ11	Surface		5/22/2012	< 0.0006	4.95	< 0.00005	1.70	0.0324	-	< 0.00005	< 0.0001	0.00630
	WQ11	Surface		5/28/2012	< 0.0006	4.92	< 0.00005	1.70	0.0286	-	< 0.00005	< 0.0001	0.00500
	WQ11	Surface		6/4/2012	< 0.0006	5.42	< 0.00005	1.60	0.0324	-	< 0.00005	< 0.0001	0.00360
	WQ11	Surface		6/11/2012	< 0.0006	5.81	< 0.00005	1.80	0.0358	-	< 0.00005	< 0.0001	0.00310
	WQ11	Surface		6/18/2012	< 0.0006	5.62	< 0.00005	1.90	0.0377	-	< 0.00005	< 0.0001	0.00380
	WQ11	Surface		7/16/2012	< 0.0006	6.66	< 0.00005	2.50	0.0599	-	0.000110	< 0.0001	0.00240
	WQ11	Surface		8/13/2012	< 0.0006	7.54	< 0.00005	2.70	0.0664	-	< 0.00005	< 0.0001	0.00280
	WQ11	Surface		9/17/2012	< 0.0006	6.97	< 0.00005	3.20	0.0927	-	< 0.00005	< 0.0001	0.000800
	WQ11	Surface		10/15/2012	< 0.0006	6.06	< 0.00005	3.90	0.119	-	< 0.00005	< 0.0001	0.000500
	WQ11	Surface		11/13/2012	< 0.0006	6.30	< 0.00005	3.20	0.0880	-	< 0.00005	< 0.0001	0.00190
	WQ11	Surface		1/13/2013	< 0.0006	6.73	< 0.00005	4.00	0.127	-	< 0.00005	< 0.0001	0.000700
	WQ11	Surface		2/12/2013	< 0.0006	6.73	< 0.00005	4.40	0.129	-	< 0.00005	< 0.0001	0.000800
	WQ11	Surface		4/15/2013	< 0.0001	5.41	< 0.00005	2.40	0.0583	-	< 0.00005	< 0.0001	0.00830
	WQ11	Surface		5/13/2013	< 0.0001	4.85	< 0.00005	1.50	0.0298	-	< 0.00005	< 0.0001	0.00510
	WQ11	Surface		5/22/2013	< 0.0001	4.59	< 0.00005	1.70	0.0358	-	< 0.00005	< 0.0001	0.00510
	WQ11	Surface		5/27/2013	< 0.0001	4.55	< 0.00005	1.80	0.0337	-	< 0.00005	< 0.0001	0.00590
	WQ11	Surface		6/6/2013	< 0.0001	5.32	< 0.00005	1.80	0.0373	-	< 0.00005	< 0.0001	0.00610
	WQ11	Surface		6/10/2013	< 0.0001	4.82	< 0.00005	1.90	0.0437	-	< 0.00005	< 0.0001	0.00530
	WQ11	Surface		6/17/2013	< 0.0001	5.02	< 0.00005	1.90	0.0392	-	< 0.00005	< 0.0001	0.00470
L1762266-2	WQ11	Surface		4/27/2016	0.0000630	5.29	0.0000170	<2.0	0.0353	-	0.0000110	<0.00010	<0.010
L1764648-1	WQ11	Surface		5/3/2016	<0.000050	5.39	<0.000010	<2.0	0.0362	-	<0.000010	<0.00010	<0.010
L1767107-6	WQ11	Surface	Dup	5/9/2016	0.0000680	6.08	<0.000010	2.00	0.0380	-	<0.000010	<0.00010	<0.010
L1767107-2	WQ11	Surface		5/9/2016	0.0000820	6.02	<0.000010	2.00	0.0404	-	<0.000010	<0.00010	<0.010
L1770672-5	WQ11	Surface	Dup	5/16/2016	<0.000050	5.89	<0.000010	2.20	0.0462	-	<0.000010	<0.00010	<0.010
L1770672-1	WQ11	Surface		5/16/2016	<0.000050	6.40	<0.000010	2.40	0.0458	-	<0.000010	<0.00010	<0.010

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					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1774541-1	WQ11	Surface		5/25/2016	0.0000710	6.14	<0.000010	2.50	0.0566	-	<0.000010	<0.00010	<0.010
L1788643-1	WQ11	Surface		6/22/2016	0.0000630	6.11	<0.000010	2.20	0.0400	-	<0.000010	<0.00010	<0.010
L1808945-1	WQ11	Surface		8/3/2016	<0.000050	6.41	<0.000010	2.30	0.0549	-	<0.000010	<0.00010	<0.010
L1812856-1	WQ11	Surface		8/10/2016	0.0000610	6.75	<0.000010	2.50	0.0619	-	<0.000010	<0.00010	<0.010
L1815654-1	WQ11	Surface		8/16/2016	<0.000050	6.86	<0.000010	2.80	0.0626	-	<0.000010	<0.00010	<0.010
L1819041-6	WQ11	Surface		8/23/2016	0.0000610	6.53	<0.000010	2.70	0.0671	-	<0.000010	<0.00010	<0.010
L1823224-4	WQ11	Surface		8/31/2016	0.0000580	6.58	<0.000010	2.70	0.0713	-	<0.000010	<0.00010	<0.010
L1826303-3	WQ11	Surface		9/7/2016	<0.000050	6.46	<0.000010	2.30	0.0630	-	<0.000010	<0.00010	<0.010
	WQ12	Surface		4/19/2011	< 0.0006	3.07	< 0.00005	2.20	0.0604	-	< 0.00005	< 0.0001	0.000900
	WQ12	Surface		5/17/2011	< 0.0006	4.07	< 0.00005	1.30	0.0376	-	< 0.00005	< 0.0001	0.0139
	WQ12	Surface		5/24/2011	< 0.0006	3.50	< 0.00005	1.30	0.0326	-	< 0.00005	< 0.0001	0.00440
	WQ12	Surface		5/30/2011	< 0.0006	3.60	< 0.00005	1.20	0.0319	-	< 0.00005	< 0.0001	0.00320
	WQ12	Surface		6/6/2011	< 0.0006	3.02	< 0.00005	1.30	0.0310	-	< 0.00005	< 0.0001	0.00230
	WQ12	Surface		6/13/2011	< 0.0006	3.28	< 0.00005	1.40	0.0372	-	< 0.00005	< 0.0001	0.00200
	WQ12	Surface		7/18/2011	< 0.0006	3.93	< 0.00005	1.60	0.0420	-	< 0.00005	< 0.0001	0.00270
	WQ12	Surface		8/15/2011	< 0.0006	3.73	< 0.00005	1.80	0.0472	-	< 0.00005	< 0.0001	0.00210
	WQ12	Surface		9/19/2011	< 0.0006	3.71	< 0.00005	2.10	0.0528	-	< 0.00005	< 0.0001	0.00130
	WQ12	Surface		10/17/2011	< 0.0006	4.11	< 0.00005	1.80	0.0466	-	< 0.00005	< 0.0001	0.00150
	WQ12	Surface		11/14/2011	< 0.0006	3.67	< 0.00005	1.80	0.0476	-	< 0.00005	< 0.0001	0.00160
	WQ12	Surface		12/12/2011	< 0.0006	4.22	< 0.00005	2.10	0.0572	-	< 0.00005	< 0.0001	0.00240
	WQ12	Surface		1/12/2012	< 0.0006	4.10	< 0.00005	2.10	0.0566	-	< 0.00005	< 0.0001	0.00120
	WQ12	Surface		2/13/2012	< 0.0006	3.72	< 0.00005	2.00	0.0579	-	< 0.00005	< 0.0001	0.00180
	WQ12	Surface	Dup	3/12/2012	< 0.0006	3.81	< 0.00005	2.00	0.0582	-	< 0.00005	< 0.0001	0.00150
	WQ12	Surface		3/12/2012	< 0.0006	3.94	< 0.00005	2.10	0.0582	-	< 0.00005	< 0.0001	0.00390
	WQ12	Surface		4/16/2012	< 0.0006	4.95	< 0.00005	1.90	0.0491	-	< 0.00005	< 0.0001	0.0112
	WQ12	Surface		5/15/2012	< 0.0006	3.80	< 0.00005	1.40	0.0377	-	< 0.00005	< 0.0001	0.00550
	WQ12	Surface		5/22/2012	< 0.0006	3.54	< 0.00005	1.40	0.0354	-	< 0.00005	< 0.0001	0.00300
	WQ12	Surface		5/28/2012	< 0.0006	3.62	< 0.00005	1.50	0.0381	-	< 0.00005	< 0.0001	0.00240
	WQ12	Surface		6/4/2012	< 0.0006	3.59	< 0.00005	1.50	0.0405	-	< 0.00005	< 0.0001	0.00160
	WQ12	Surface		6/11/2012	< 0.0006	3.70	< 0.00005	1.50	0.0407	-	< 0.00005	< 0.0001	0.00140
	WQ12	Surface		6/18/2012	< 0.0006	3.46	< 0.00005	1.50	0.0417	-	< 0.00005	< 0.0001	0.00160
	WQ12	Surface		7/16/2012	< 0.0006	3.99	< 0.00005	1.80	0.0493	-	< 0.00005	< 0.0001	0.00110
	WQ12	Surface		8/13/2012	< 0.0006	3.74	< 0.00005	2.10	0.0644	-	< 0.00005	< 0.0001	0.00130
	WQ12	Surface		9/17/2012	< 0.0006	3.99	< 0.00005	2.20	0.0645	-	< 0.00005	< 0.0001	0.00160
	WQ12	Surface		10/15/2012	< 0.0006	6.95	< 0.00005	2.60	0.0696	-	< 0.00005	< 0.0001	0.00120
	WQ12	Surface		11/13/2012	< 0.0006	3.82	< 0.00005	2.20	0.0546	-	< 0.00005	< 0.0001	0.00100
	WQ12	Surface		1/13/2013	< 0.0006	3.99	< 0.00005	2.20	0.0509	-	< 0.00005	< 0.0001	0.00100
	WQ12	Surface		2/12/2013	< 0.0006	3.24	< 0.00005	2.20	0.0512	-	< 0.00005	< 0.0001	0.000700
	WQ12	Surface		3/11/2013	< 0.0006	2.63	< 0.00005	2.30	0.0530	-	< 0.00005	< 0.0001	0.000800
	WQ12	Surface		4/15/2013	< 0.0001	3.55	< 0.00005	1.80	0.0506	-	< 0.00005	< 0.0001	0.00290
	WQ12	Surface		5/13/2013	< 0.0001	2.85	< 0.00005	1.30	0.0399	-	< 0.00005	< 0.0001	0.00190
	WQ12	Surface		5/22/2013	< 0.0001	3.08	< 0.00005	1.50	0.0405	-	< 0.00005	< 0.0001	0.00180
	WQ12	Surface		5/27/2013	< 0.0001	3.01	< 0.00005	1.60	0.0400	-	< 0.00005	< 0.0001	0.00220
	WQ12	Surface		6/6/2013	< 0.0001	3.21	< 0.00005	1.50	0.0389	-	< 0.00005	< 0.0001	0.00140

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Selenium (Se)-Total	Silicon (Si)-Total	Silver (Ag)-Total	Sodium (Na)-Total	Strontium (Sr)-Total	Sulfur (S)-Total	Thallium (Tl)-Total	Tin (Sn)-Total	Titanium (Ti)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ12	Surface		6/10/2013	< 0.0001	2.96	< 0.00005	1.50	0.0440	-	< 0.00005	< 0.0001	0.00160
	WQ12	Surface		6/17/2013	< 0.0001	3.17	< 0.00005	1.50	0.0416	-	< 0.00005	< 0.0001	0.00150
	WQ13	Surface		4/19/2011	< 0.0006	5.29	< 0.00005	3.80	0.118	-	< 0.00005	< 0.0001	0.00280
	WQ13	Surface		5/17/2011	< 0.0006	4.74	< 0.00005	2.70	0.0748	-	< 0.00005	< 0.0001	0.00490
	WQ13	Surface		5/24/2011	< 0.0006	4.42	< 0.00005	2.70	0.0751	-	< 0.00005	< 0.0001	0.00500
	WQ13	Surface		5/30/2011	< 0.0006	4.59	< 0.00005	2.70	0.0806	-	< 0.00005	< 0.0001	0.00370
	WQ13	Surface		6/6/2011	< 0.0006	4.24	< 0.00005	2.60	0.0763	-	< 0.00005	< 0.0001	0.00380
	WQ13	Surface		6/13/2011	< 0.0006	4.38	< 0.00005	2.70	0.0780	-	< 0.00005	< 0.0001	0.00240
	WQ13	Surface		7/18/2011	< 0.0006	5.38	< 0.00005	2.80	0.0834	-	< 0.00005	< 0.0001	0.00300
	WQ13	Surface		8/15/2011	< 0.0006	4.13	< 0.00005	3.10	0.0918	-	< 0.00005	< 0.0001	0.000900
	WQ13	Surface		9/19/2011	< 0.0006	4.76	< 0.00005	3.40	0.101	-	< 0.00005	< 0.0001	0.00110
	WQ13	Surface		10/17/2011	< 0.0006	5.36	< 0.00005	3.20	0.0927	-	< 0.00005	< 0.0001	0.000800
	WQ13	Surface		11/14/2011	< 0.0006	4.87	< 0.00005	3.30	0.0960	-	< 0.00005	< 0.0001	0.00250
	WQ13	Surface		12/13/2011	< 0.0006	5.25	< 0.00005	3.50	0.102	-	< 0.00005	< 0.0001	0.00110
	WQ13	Surface		1/12/2012	< 0.0006	6.50	< 0.00005	3.80	0.114	-	< 0.00005	< 0.0001	0.00250
	WQ13	Surface		2/13/2012	< 0.0006	5.48	< 0.00005	3.50	0.106	-	< 0.00005	< 0.0001	0.00120
	WQ13	Surface		3/12/2012	< 0.0006	6.11	< 0.00005	4.20	0.106	-	< 0.00005	< 0.0001	0.00210
	WQ13	Surface		4/16/2012	< 0.0006	5.48	< 0.00005	3.20	0.0869	-	< 0.00005	< 0.0001	0.00550
	WQ13	Surface		5/15/2012	< 0.0006	4.99	< 0.00005	3.00	0.0877	-	< 0.00005	< 0.0001	0.00440
	WQ13	Surface		5/22/2012	< 0.0006	4.60	< 0.00005	2.90	0.0796	-	< 0.00005	< 0.0001	0.00740
	WQ13	Surface		5/28/2012	< 0.0006	4.82	< 0.00005	3.20	0.0764	-	< 0.00005	< 0.0001	0.00220
	WQ13	Surface		6/4/2012	< 0.0006	4.70	< 0.00005	2.90	0.105	-	< 0.00005	< 0.0001	0.00210
	WQ13	Surface	Dup	6/11/2012	< 0.0006	4.78	< 0.00005	3.30	0.0842	-	< 0.00005	< 0.0001	0.00200
	WQ13	Surface		6/11/2012	< 0.0006	4.95	< 0.00005	3.10	0.0834	-	< 0.00005	< 0.0001	0.000600
	WQ13	Surface		6/18/2012	< 0.0006	4.32	< 0.00005	2.90	0.0872	-	< 0.00005	< 0.0001	0.00220
	WQ13	Surface		7/16/2012	< 0.0006	4.63	< 0.00005	3.30	0.0936	-	< 0.00005	< 0.0001	0.000600
	WQ13	Surface		8/13/2012	< 0.0006	4.17	< 0.00005	3.60	0.105	-	< 0.00005	< 0.0001	0.000500
	WQ13	Surface		9/17/2012	< 0.0006	4.09	< 0.00005	3.40	0.0996	-	< 0.00005	< 0.0001	0.00150
	WQ13	Surface		10/15/2012	< 0.0006	4.24	< 0.00005	3.90	0.107	-	< 0.00005	< 0.0001	0.000600
	WQ13	Surface		11/12/2012	< 0.0006	5.94	< 0.00005	3.50	0.0986	-	< 0.00005	< 0.0001	0.00110
	WQ13	Surface		1/15/2013	< 0.0006	5.41	< 0.00005	4.20	0.110	-	< 0.00005	< 0.0001	0.00710
	WQ13	Surface		5/14/2013	< 0.0001	3.77	< 0.00005	2.50	0.0761	-	< 0.00005	< 0.0001	0.00370
	WQ13	Surface		5/22/2013	< 0.0001	4.29	< 0.00005	1.80	0.0390	-	< 0.00005	< 0.0001	0.00360
	WQ13	Surface		5/28/2013	< 0.0001	3.97	< 0.00005	3.10	0.0789	-	< 0.00005	< 0.0001	0.00460
	WQ13	Surface		6/4/2013	< 0.0001	4.05	< 0.00005	3.00	0.0806	-	< 0.00005	< 0.0001	0.00150
	WQ13	Surface		6/10/2013	< 0.0001	3.67	< 0.00005	3.00	0.0906	-	< 0.00005	< 0.0001	0.00180
	WQ13	Surface		6/18/2013	< 0.0001	3.73	< 0.00005	3.10	0.0820	-	< 0.00005	< 0.0001	0.00170
L1913531-4	WQ13	Surface	Dup	4/12/2017	0.0000570	4.52	<0.000010	3.20	0.0886	-	<0.000010	<0.00010	<0.010
L1913531-2	WQ13	Surface		4/12/2017	0.0000700	4.59	<0.000010	3.20	0.0863	-	<0.000010	<0.00010	<0.010
L1926080-1	WQ13	Surface		5/11/2017	0.0000730	4.67	<0.000010	3.30	0.0842	-	<0.000010	<0.00010	<0.010
L1939712-11	WQ13	Surface		6/7/2017	0.0000720	3.73	<0.000010	3.00	0.0825	-	<0.000010	<0.00010	<0.010
L1964508-2	WQ13	Surface		7/24/2017	0.0000540	3.95	<0.000010	3.70	0.0985	-	<0.000010	<0.00010	<0.010
L1984944-8	WQ13	Surface		8/30/2017	0.0000640	3.03	<0.000010	3.70	0.105	1.43	<0.000010	<0.00010	<0.010
L1988832-7	WQ13	Surface		9/9/2017	0.0000710	2.87	<0.000010	3.80	0.104	1.10	<0.000010	<0.00010	<0.010

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Selenium (Se)-Total	Silicon (Si)-Total	Silver (Ag)-Total	Sodium (Na)-Total	Strontium (Sr)-Total	Sulfur (S)-Total	Thallium (Tl)-Total	Tin (Sn)-Total	Titanium (Ti)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2009845-1	WQ13	Surface		10/17/2017	0.0000830	4.27	<0.000010	3.40	0.0947	1.48	<0.000010	<0.000010	<0.010
L2020333-1	WQ13	Surface		11/7/2017	0.0000660	5.13	<0.000010	3.20	0.103	1.18	<0.000010	<0.000010	<0.010
L2034610-4	WQ13	Surface		12/11/2017	0.0000520	4.74	<0.000010	3.70	0.102	1.14	<0.000010	<0.000010	<0.010
L2049224-3	WQ13	Surface		1/23/2018	0.0000520	5.19	<0.000010	3.80	0.107	1.95	<0.000010	<0.000010	<0.010
L2060442-3	WQ13	Surface		2/23/2018	0.0000790	4.39	<0.000010	3.50	0.106	0.950	<0.000010	<0.000010	<0.010
L2074294-7	WQ13	Surface		3/28/2018	0.0000650	4.32	<0.000010	3.40	0.105	1.57	<0.000010	<0.000010	<0.010
L2081505-5	WQ13	Surface		4/16/2018	<0.000050	4.36	<0.000010	3.80	0.113	1.24	<0.000010	<0.000010	<0.010
L2097084-4	WQ13	Surface		5/16/2018	0.0000670	4.19	<0.000010	2.70	0.0743	0.950	<0.000010	<0.000010	<0.010
L2104479-4	WQ13	Surface		5/30/2018	0.0000650	3.59	<0.000010	3.00	0.0797	0.840	<0.000010	<0.000010	<0.010
L2132986-1	WQ13	Surface		7/18/2018	0.0000740	3.83	<0.000010	3.20	0.0891	1.22	<0.000010	<0.000010	<0.010
L2144782-5	WQ13	Surface		8/9/2018	0.0000550	3.85	<0.000010	3.30	0.0938	1.08	<0.000010	<0.000010	<0.010
L2164448-1	WQ13	Surface		9/12/2018	0.0000500	4.21	<0.000010	3.70	0.102	0.620	<0.000010	<0.000010	<0.010
L2188218-5	WQ13	Surface		10/26/2018	0.0000950	4.87	<0.000010	3.40	0.0947	1.52	<0.000010	<0.000010	<0.010
L2203408-5	WQ13	Surface		11/27/2018	0.0000530	5.00	<0.000010	3.50	0.0920	1.25	<0.000010	<0.000010	<0.010
L2213684-4	WQ13	Surface		12/19/2018	0.0000640	5.04	<0.000010	3.40	0.0986	1.58	<0.000010	<0.000010	<0.010
L2227101-4	WQ13	Surface		1/29/2019	0.0000800	4.69	<0.000010	3.60	0.104	1.24	<0.000010	<0.000010	<0.010
L2232050-7	WQ13	Surface		2/11/2019	<0.000050	4.66	<0.000010	3.50	0.0976	1.50	<0.000010	<0.000010	<0.010
L2245144-2	WQ13	Surface		3/14/2019	0.0000680	4.89	<0.000010	3.50	0.102	1.22	<0.000010	<0.000010	<0.010
L2256054-4	WQ13	Surface		4/9/2019	0.0000610	5.03	<0.000010	3.00	0.0886	2.02	<0.000010	<0.000010	<0.010
L2274397-3	WQ13	Surface		5/14/2019	0.0000920	4.54	<0.000010	2.90	0.0854	1.38	<0.000010	<0.000010	<0.010
L2286702-4	WQ13	Surface		6/4/2019	0.0000680	3.59	<0.000010	3.20	0.0918	1.10	<0.000010	<0.000010	<0.010
L2312637-2	WQ13	Surface		7/16/2019	0.0000910	3.49	<0.000010	3.30	0.0863	1.07	<0.000010	<0.000010	<0.010
L2326388-5	WQ13	Surface		8/8/2019	0.0000660	3.70	<0.000010	3.10	0.0875	0.980	<0.000010	<0.000010	<0.010
L2349445-4	WQ13	Surface		9/16/2019	0.0000740	4.18	<0.000010	3.60	0.101	1.03	<0.000010	<0.000010	<0.010
L2372667-4	WQ13	Surface		10/23/2019	0.0000770	5.04	<0.000010	3.10	0.0987	1.53	<0.000010	<0.000010	<0.010
L2388381-4	WQ13	Surface		11/25/2019	0.0000640	5.15	<0.000010	3.20	0.0877	1.43	<0.000010	<0.000010	<0.010
VA19A0791-005	WQ13	Surface	Dup	12/17/2019	0.0000750	5.22	<0.000010	3.66	0.102	1.40	<0.000010	0.000160	0.000830
VA19A0791-004	WQ13	Surface		12/17/2019	<0.000050	5.26	<0.000010	3.62	0.104	1.30	<0.000010	<0.000010	0.00100
VA20A0960-004	WQ13	Surface		1/27/2020	<0.000050	5.13	<0.000010	3.66	0.100	1.34	<0.000010	<0.000010	0.000520
VA20A2126-003	WQ13	Surface		2/19/2020	0.0000550	5.22	<0.000010	3.83	0.101	1.55	<0.000010	<0.000010	0.000360
VA20A3691-001	WQ13	Surface		3/18/2020	0.0000570	5.33	<0.000010	3.86	0.101	1.21	<0.000010	<0.000010	0.000660
VA20A4555-005	WQ13	Surface		4/7/2020	0.0000610	5.24	<0.000010	3.90	0.101	1.40	<0.000010	<0.000010	<0.00510
VA20A6218-004	WQ13	Surface		5/7/2020	0.0000600	4.64	<0.000010	2.86	0.0807	1.20	<0.000010	<0.000010	0.00207
VA20A6356-003	WQ13	Surface		5/11/2020	0.0000580	4.70	<0.000010	2.72	0.0796	0.920	<0.000010	<0.000010	0.00363
VA20A6869-003	WQ13	Surface		5/20/2020	0.0000570	4.50	<0.000010	2.54	0.0721	0.890	<0.000010	<0.000010	0.00270
VA20A7367-003	WQ13	Surface		5/28/2020	0.0000560	4.83	<0.000010	3.01	0.0819	0.960	<0.000010	<0.000010	0.00474
VA20A7797-003	WQ13	Surface		6/3/2020	0.0000610	4.53	<0.000010	2.97	0.0833	1.13	<0.000010	<0.000010	0.00263
VA20B0021-003	WQ13	Surface		7/7/2020	0.0000900	4.44	<0.000010	3.19	0.0861	1.08	<0.000010	<0.000010	0.00184
VA20B2156-003	WQ13	Surface		8/5/2020	0.0000570	3.81	<0.000010	3.42	0.0899	1.17	<0.000010	<0.000010	0.000550
VA20B2542-004	WQ13	Surface		8/11/2020	0.0000630	4.32	<0.000010	3.65	0.0984	0.920	<0.000010	<0.000010	0.000640
VA20B3218-002	WQ13	Surface		8/18/2020	0.0000570	4.62	<0.000010	3.60	0.0997	1.15	<0.000010	<0.000010	0.00126
VA20B3860-003	WQ13	Surface		8/26/2020	0.000110	4.66	<0.000010	3.48	0.0989	0.940	<0.000010	<0.000010	0.000830
VA20B4313-003	WQ13	Surface		9/1/2020	0.0000590	4.72	<0.000010	3.27	0.0989	1.12	<0.000010	<0.000010	0.000920
VA20B7828-003	WQ13	Surface		10/8/2020	0.0000660	4.77	<0.000010	3.21	0.0982	0.880	<0.000010	<0.000010	0.000680

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					Selenium (Se)-Total	Silicon (Si)-Total	Silver (Ag)-Total	Sodium (Na)-Total	Strontium (Sr)-Total	Sulfur (S)-Total	Thallium (Tl)-Total	Tin (Sn)-Total	Titanium (Ti)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
VA20C1281-002	WQ13	Surface	Dup	11/18/2020	0.0000940	5.21	<0.000010	3.24	0.0883	1.13	<0.000010	<0.00010	0.00194
VA20C1281-001	WQ13	Surface		11/18/2020	0.0000700	5.39	<0.000010	3.25	0.0884	1.04	<0.000010	<0.00010	0.00485
	WQ14	Surface		5/24/2011	< 0.0006	5.03	< 0.00005	2.40	0.0531	-	< 0.00005	< 0.0001	0.00320
	WQ14	Surface		5/30/2011	< 0.0006	5.16	< 0.00005	2.40	0.0613	-	< 0.00005	< 0.0001	0.00130
	WQ14	Surface		6/6/2011	< 0.0006	5.42	< 0.00005	2.50	0.0730	-	< 0.00005	< 0.0001	0.00120
	WQ14	Surface		6/13/2011	< 0.0006	5.71	< 0.00005	2.70	0.0830	-	< 0.00005	< 0.0001	0.000700
	WQ14	Surface	Dup	7/18/2011	< 0.0006	7.10	< 0.00005	3.10	0.100	-	< 0.00005	< 0.0001	0.00180
	WQ14	Surface		7/18/2011	< 0.0006	8.27	< 0.00005	3.10	0.106	-	< 0.00005	< 0.0001	0.0168
	WQ14	Surface		8/15/2011	< 0.0006	6.64	< 0.00005	3.70	0.130	-	< 0.00005	< 0.0001	0.00160
	WQ14	Surface		9/19/2011	< 0.0006	6.54	< 0.00005	4.30	0.138	-	< 0.00005	< 0.0001	0.000400
	WQ14	Surface		10/17/2011	< 0.0006	6.53	< 0.00005	3.90	0.109	-	< 0.00005	< 0.0001	0.000500
	WQ14	Surface	Dup	11/14/2011	< 0.0006	6.65	< 0.00005	4.20	0.118	-	< 0.00005	< 0.0001	0.000500
	WQ14	Surface		11/14/2011	< 0.0006	6.78	< 0.00005	4.10	0.118	-	< 0.00005	< 0.0001	0.000600
	WQ14	Surface		12/13/2011	< 0.0006	7.60	< 0.00005	4.50	0.139	-	< 0.00005	< 0.0001	0.000800
	WQ14	Surface	Dup	1/12/2012	< 0.0006	6.13	< 0.00005	3.60	0.108	-	< 0.00005	< 0.0001	0.00230
	WQ14	Surface		1/12/2012	< 0.0006	8.73	< 0.00005	4.40	0.145	-	< 0.00005	< 0.0001	0.00130
	WQ14	Surface		4/17/2012	< 0.0006	5.61	< 0.00005	3.30	0.0917	-	< 0.00005	< 0.0001	0.00150
	WQ14	Surface		5/23/2012	< 0.0006	5.55	< 0.00005	2.90	0.0703	-	< 0.00005	< 0.0001	0.000800
	WQ14	Surface		5/28/2012	< 0.0006	5.52	< 0.00005	2.70	0.0701	-	< 0.00005	< 0.0001	0.000600
	WQ14	Surface	Dup	6/4/2012	< 0.0006	5.68	< 0.00005	2.80	0.0772	-	< 0.00005	< 0.0001	0.000600
	WQ14	Surface		6/4/2012	< 0.0006	5.62	< 0.00005	2.80	0.0776	-	< 0.00005	< 0.0001	0.000600
	WQ14	Surface		6/11/2012	< 0.0006	6.27	< 0.00005	3.00	0.0911	-	< 0.00005	< 0.0001	0.000500
	WQ14	Surface		6/18/2012	< 0.0006	5.88	< 0.00005	3.20	0.0991	-	< 0.00005	< 0.0001	0.00120
	WQ14	Surface		7/16/2012	< 0.0006	6.83	< 0.00005	3.90	0.131	-	< 0.00005	< 0.0001	0.000800
	WQ14	Surface		8/13/2012	< 0.0006	7.67	< 0.00005	4.30	0.149	-	< 0.00005	< 0.0001	0.000600
	WQ14	Surface		9/17/2012	< 0.0006	6.97	< 0.00005	4.40	0.135	-	< 0.00005	< 0.0001	0.000400
	WQ14	Surface		10/16/2012	< 0.0006	6.41	< 0.00005	4.70	0.133	-	< 0.00005	< 0.0001	0.000600
	WQ14	Surface		11/12/2012	< 0.0006	8.66	< 0.00005	4.70	0.132	-	< 0.00005	< 0.0001	0.000400
	WQ14	Surface		12/10/2012	< 0.0006	8.16	< 0.00005	6.10	0.153	-	< 0.00005	< 0.0001	0.00120
	WQ14	Surface		4/16/2013	< 0.0001	5.37	< 0.00005	3.70	0.109	-	< 0.00005	< 0.0001	0.000800
	WQ14	Surface	Dup	5/14/2013	< 0.0001	4.40	< 0.00005	2.40	0.0671	-	< 0.00005	< 0.0001	0.00110
	WQ14	Surface		5/14/2013	< 0.0001	4.30	< 0.00005	2.40	0.0667	-	< 0.00005	< 0.0001	0.00160
	WQ14	Surface		5/21/2013	< 0.0001	5.05	< 0.00005	3.00	0.0881	-	< 0.00005	< 0.0001	0.000600
	WQ14	Surface		5/28/2013	< 0.0001	5.05	< 0.00005	3.40	0.0821	-	< 0.00005	< 0.0001	0.000900
	WQ14	Surface		6/4/2013	< 0.0001	5.43	< 0.00005	2.90	0.0776	-	< 0.00005	< 0.0001	0.000600
	WQ14	Surface	Dup	6/11/2013	0.000200	5.00	< 0.00005	3.20	0.0990	-	< 0.00005	< 0.0001	0.000700
	WQ14	Surface		6/11/2013	< 0.0001	5.11	< 0.00005	3.20	0.0989	-	< 0.00005	< 0.0001	0.000900
	WQ14	Surface		6/18/2013	0.00110	53.4	< 0.00005	31.7	0.921	-	< 0.00005	< 0.0001	0.00630
	WQ15	Surface		9/24/2012	< 0.0006	0.960	< 0.00005	1.90	0.0773	-	< 0.00005	< 0.0001	0.00100
	WQ15	Surface		10/15/2012	< 0.0006	1.08	< 0.00005	2.10	0.0770	-	< 0.00005	< 0.0001	0.000900
	WQ15	Surface		11/13/2012	< 0.0006	2.22	< 0.00005	1.90	0.0727	-	< 0.00005	< 0.0001	0.000400
	WQ15	Surface		1/13/2013	< 0.0006	2.64	< 0.00005	2.10	0.0818	-	< 0.00005	< 0.0001	0.000400
	WQ15	Surface		2/12/2013	< 0.0006	2.23	< 0.00005	2.00	0.0762	-	< 0.00005	< 0.0001	0.000600
	WQ15	Surface		3/11/2013	< 0.0006	1.94	< 0.00005	2.00	0.0780	-	< 0.00005	< 0.0001	< 0.0002

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Selenium (Se)-Total	Silicon (Si)-Total	Silver (Ag)-Total	Sodium (Na)-Total	Strontium (Sr)-Total	Sulfur (S)-Total	Thallium (Tl)-Total	Tin (Sn)-Total	Titanium (Ti)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ15	Surface		4/15/2013	< 0.0001	1.84	< 0.00005	1.70	0.0765	-	< 0.00005	< 0.0001	0.000200
	WQ15	Surface		5/13/2013	< 0.0001	2.53	< 0.00005	1.40	0.0618	-	< 0.00005	< 0.0001	0.00160
	WQ15	Surface		5/22/2013	< 0.0001	4.43	< 0.00005	3.00	0.0928	-	< 0.00005	< 0.0001	0.00250
	WQ15	Surface		5/27/2013	< 0.0001	2.57	< 0.00005	1.70	0.0636	-	< 0.00005	< 0.0001	0.00110
	WQ15	Surface		6/6/2013	< 0.0001	2.81	< 0.00005	1.40	0.0598	-	< 0.00005	< 0.0001	0.00110
	WQ15	Surface		6/10/2013	< 0.0001	2.39	< 0.00005	1.40	0.0661	-	< 0.00005	< 0.0001	0.00110
	WQ15	Surface		6/17/2013	< 0.0001	2.63	< 0.00005	1.40	0.0607	-	< 0.00005	< 0.0001	0.00110
	WQ15	Surface		4/13/2014	< 0.0001	2.55	< 0.00005	1.80	0.0789	-	< 0.00005	< 0.0001	0.000200
	WQ15	Surface		7/2/2014	< 0.0001	2.39	< 0.00005	1.60	0.0681	-	< 0.00005	< 0.0001	0.000600
	WQ15	Surface		9/24/2014	< 0.0001	0.330	< 0.00005	2.20	0.0881	-	< 0.00005	< 0.0001	0.00100
	WQ15	Surface		12/8/2014	< 0.0001	1.79	< 0.00005	1.80	0.0774	-	< 0.00005	< 0.0001	< 0.0002
	WQ16	Surface		9/24/2012	< 0.0006	1.09	< 0.00005	2.00	0.0404	-	< 0.00005	< 0.0001	0.00100
	WQ16	Surface		10/15/2012	< 0.0006	0.860	< 0.00005	2.30	0.0387	-	< 0.00005	< 0.0001	0.000400
	WQ16	Surface		11/13/2012	< 0.0006	1.52	< 0.00005	2.00	0.0413	-	< 0.00005	< 0.0001	< 0.0002
	WQ16	Surface		1/13/2013	< 0.0006	1.71	< 0.00005	2.00	0.0443	-	< 0.00005	< 0.0001	0.00100
	WQ16	Surface		2/12/2013	< 0.0006	1.64	< 0.00005	2.30	0.0448	-	< 0.00005	< 0.0001	0.000300
	WQ16	Surface		3/11/2013	< 0.0006	2.16	< 0.00005	2.10	0.0461	-	< 0.00005	< 0.0001	0.00790
	WQ16	Surface		4/15/2013	< 0.0001	1.46	< 0.00005	1.90	0.0430	-	< 0.00005	< 0.0001	0.000700
	WQ16	Surface		5/13/2013	< 0.0001	1.92	< 0.00005	1.60	0.0386	-	< 0.00005	< 0.0001	0.00110
	WQ16	Surface		5/22/2013	< 0.0001	2.62	< 0.00005	1.50	0.0690	-	< 0.00005	< 0.0001	0.00150
	WQ16	Surface		5/27/2013	< 0.0001	1.58	< 0.00005	2.10	0.0396	-	< 0.00005	< 0.0001	0.00100
	WQ16	Surface		6/6/2013	< 0.0001	1.83	< 0.00005	1.70	0.0354	-	< 0.00005	< 0.0001	0.000600
	WQ16	Surface		6/10/2013	< 0.0001	1.88	< 0.00005	1.70	0.0412	-	< 0.00005	< 0.0001	0.00320
	WQ16	Surface		6/17/2013	< 0.0001	1.87	< 0.00005	1.70	0.0366	-	< 0.00005	< 0.0001	0.000500
	WQ16	Surface		4/13/2014	< 0.0001	1.53	< 0.00005	1.80	0.0418	-	< 0.00005	< 0.0001	0.000200
	WQ16	Surface		7/2/2014	< 0.0001	1.91	< 0.00005	1.80	0.0393	-	< 0.00005	< 0.0001	0.000500
	WQ16	Surface		9/24/2014	< 0.0001	2.51	< 0.00005	2.30	0.0390	-	< 0.00005	< 0.0001	0.00310
	WQ16	Surface		12/8/2014	< 0.0001	1.82	< 0.00005	1.90	0.0432	-	< 0.00005	< 0.0001	< 0.0002
	WQ17	Surface		12/12/2011	< 0.0006	6.38	< 0.00005	3.10	0.0542	-	< 0.00005	< 0.0001	0.000400
	WQ17	Surface		3/12/2012	< 0.0006	7.12	< 0.00005	3.60	0.0618	-	< 0.00005	< 0.0001	0.000300
	WQ17	Surface	Dup	6/18/2012	< 0.0006	4.40	< 0.00005	1.90	0.0229	-	< 0.00005	< 0.0001	0.00140
	WQ17	Surface		6/18/2012	< 0.0006	4.44	< 0.00005	1.60	0.0217	-	< 0.00005	< 0.0001	0.00140
	WQ17	Surface	Dup	9/17/2012	< 0.0006	6.15	< 0.00005	3.00	0.0524	-	< 0.00005	< 0.0001	0.000400
	WQ17	Surface		9/17/2012	< 0.0006	6.43	< 0.00005	3.00	0.0510	-	< 0.00005	< 0.0001	0.000400
	WQ17	Surface		1/13/2013	< 0.0006	6.19	< 0.00005	3.80	0.0645	-	< 0.00005	< 0.0001	0.000400
	WQ18	Surface		12/12/2011	< 0.0006	11.2	< 0.00005	5.60	0.0632	-	< 0.00005	< 0.0001	0.000800
	WQ18	Surface		3/12/2012	< 0.0006	15.0	< 0.00005	6.60	0.0697	-	< 0.00005	< 0.0001	0.000900
	WQ18	Surface		6/19/2012	< 0.0006	8.89	< 0.00005	4.30	0.0479	-	< 0.00005	< 0.0001	0.00400
	WQ18	Surface		9/18/2012	< 0.0006	10.4	< 0.00005	5.20	0.0599	-	< 0.00005	< 0.0001	0.000900
	WQ18	Surface		1/16/2013	< 0.0006	16.2	< 0.00005	7.70	0.0747	-	< 0.00005	< 0.0001	0.0766
	WQ19	Surface		6/18/2012	< 0.0006	5.37	< 0.00005	2.70	0.123	-	< 0.00005	< 0.0001	0.000300
	WQ19	Surface		9/17/2012	< 0.0006	6.53	< 0.00005	2.80	0.124	-	< 0.00005	< 0.0001	0.000400
	WQ19	Surface		12/10/2012	< 0.0006	6.87	< 0.00005	3.00	0.120	-	< 0.00005	< 0.0001	< 0.0002
	WQ26	Surface		1/13/2013	< 0.0006	7.14	< 0.00005	4.00	0.106	-	< 0.00005	< 0.0001	0.000200

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Selenium (Se)-Total	Silicon (Si)-Total	Silver (Ag)-Total	Sodium (Na)-Total	Strontium (Sr)-Total	Sulfur (S)-Total	Thallium (Tl)-Total	Tin (Sn)-Total	Titanium (Ti)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ26	Surface		2/12/2013	< 0.0006	6.52	< 0.00005	4.00	0.102	-	< 0.00005	< 0.0001	0.000200
	WQ26	Surface		3/11/2013	< 0.0006	5.84	< 0.00005	4.10	0.108	-	< 0.00005	< 0.0001	0.000300
	WQ26	Surface		4/15/2013	< 0.0001	5.67	< 0.00005	3.10	0.0868	-	< 0.00005	< 0.0001	0.000800
	WQ26	Surface		5/13/2013	< 0.0001	3.58	< 0.00005	1.50	0.0303	-	< 0.00005	< 0.0001	0.00630
	WQ26	Surface		5/22/2013	< 0.0001	1.57	< 0.00005	1.80	0.0427	-	< 0.00005	< 0.0001	0.000500
	WQ26	Surface		5/27/2013	< 0.0001	3.94	< 0.00005	1.90	0.0332	-	< 0.00005	< 0.0001	0.00510
	WQ26	Surface		6/6/2013	< 0.0001	4.47	< 0.00005	1.80	0.0354	-	< 0.00005	< 0.0001	0.00300
	WQ26	Surface		6/10/2013	< 0.0001	4.29	< 0.00005	1.90	0.0433	-	< 0.00005	< 0.0001	0.00190
	WQ26	Surface		6/17/2013	< 0.0001	4.48	< 0.00005	2.10	0.0415	-	< 0.00005	< 0.0001	0.00190
L1762266-6	WQ26	Surface	Dup	4/27/2016	0.0000520	5.05	0.0000100	<2.0	0.0371	-	<0.000010	<0.00010	<0.010
L1762266-3	WQ26	Surface		4/27/2016	0.0000550	4.93	0.0000100	<2.0	0.0353	-	<0.000010	<0.00010	<0.010
L1764648-3	WQ26	Surface	Dup	5/3/2016	<0.000050	5.09	<0.000010	<2.0	0.0321	-	<0.000010	<0.00010	<0.010
L1764648-2	WQ26	Surface		5/3/2016	<0.000050	5.06	<0.000010	<2.0	0.0372	-	<0.000010	<0.00010	<0.010
L1767107-3	WQ26	Surface		5/9/2016	0.0000580	5.09	<0.000010	2.00	0.0380	-	<0.000010	<0.00010	<0.010
L1770672-3	WQ26	Surface		5/16/2016	<0.000050	5.74	<0.000010	2.30	0.0479	-	<0.000010	<0.00010	<0.010
L1774541-2	WQ26	Surface		5/25/2016	0.0000580	5.70	<0.000010	2.40	0.0513	-	<0.000010	<0.00010	<0.010
L1788643-2	WQ26	Surface		6/22/2016	<0.000050	5.47	<0.000010	2.40	0.0446	-	<0.000010	<0.00010	<0.010
L1808945-2	WQ26	Surface	Dup	8/3/2016	0.0000510	6.17	<0.000010	2.60	0.0632	-	<0.000010	<0.00010	<0.010
L1808945-6	WQ26	Surface		8/3/2016	<0.000050	6.35	<0.000010	2.60	0.0656	-	<0.000010	<0.00010	<0.010
L1812856-2	WQ26	Surface		8/10/2016	<0.000050	6.36	<0.000010	2.80	0.0704	-	<0.000010	<0.00010	<0.010
L1815654-2	WQ26	Surface		8/16/2016	<0.000050	6.41	<0.000010	3.10	0.0771	-	<0.000010	<0.00010	<0.010
L1819041-4	WQ26	Surface	Dup	8/23/2016	0.0000620	6.22	<0.000010	3.10	0.0755	-	<0.000010	<0.00010	<0.010
L1819041-8	WQ26	Surface		8/23/2016	<0.000050	6.17	<0.000010	3.10	0.0753	-	<0.000010	<0.00010	<0.010
L1823224-5	WQ26	Surface		8/31/2016	0.0000580	6.10	<0.000010	2.90	0.0748	-	<0.000010	<0.00010	<0.010
L1826303-5	WQ26	Surface		9/7/2016	<0.000050	5.90	<0.000010	2.60	0.0725	-	<0.000010	<0.00010	<0.010
L1913531-5	WQ26	Surface		4/12/2017	0.0000620	6.28	<0.000010	3.70	0.101	-	<0.000010	<0.00010	<0.010
L1926080-2	WQ26	Surface		5/11/2017	0.0000640	4.77	0.0000230	2.00	0.0397	-	<0.000010	<0.00010	<0.010
L1928943-5	WQ26	Surface	Dup	5/17/2017	0.0000500	5.25	<0.000010	<2.0	0.0355	-	<0.000010	<0.00010	<0.010
L1928943-1	WQ26	Surface		5/17/2017	<0.000050	5.17	0.0000110	<2.0	0.0393	-	<0.000010	<0.00010	<0.010
L1932034-3	WQ26	Surface		5/24/2017	<0.000050	4.61	0.0000120	<2.0	0.0341	-	<0.000010	<0.00010	<0.010
L1935151-5	WQ26	Surface	Dup	5/30/2017	<0.000050	4.55	<0.000010	<2.0	0.0273	-	<0.000010	<0.00010	<0.010
L1935151-1	WQ26	Surface		5/30/2017	<0.000050	4.43	<0.000010	<2.0	0.0276	-	<0.000010	<0.00010	<0.010
L1939712-4	WQ26	Surface	Dup	6/7/2017	0.0000600	5.07	<0.000010	<2.0	0.0362	-	<0.000010	<0.00010	<0.010
L1939712-3	WQ26	Surface		6/7/2017	0.0000590	5.48	<0.000010	<2.0	0.0369	-	<0.000010	<0.00010	<0.010
L1964508-1	WQ26	Surface		7/24/2017	0.0000520	6.17	<0.000010	3.40	0.0817	-	<0.000010	<0.00010	<0.010
L1984944-4	WQ26	Surface		8/30/2017	0.0000610	6.39	<0.000010	3.80	0.108	0.980	<0.000010	<0.00010	<0.010
L1988190-3	WQ26	Surface		9/6/2017	<0.000050	6.29	<0.000010	3.80	0.103	0.820	<0.000010	<0.00010	<0.010
L1991279-3	WQ26	Surface		9/13/2017	<0.000050	6.39	<0.000010	3.70	0.0961	1.04	<0.000010	<0.00010	<0.010
L1995655-1	WQ26	Surface		9/21/2017	<0.000050	5.97	<0.000010	3.30	0.0912	0.890	<0.000010	<0.00010	<0.010
L1999769-1	WQ26	Surface		9/28/2017	<0.000050	6.35	<0.000010	3.70	0.0974	0.990	<0.000010	<0.00010	<0.010
L2009845-5	WQ26	Surface		10/17/2017	<0.000050	6.26	<0.000010	2.70	0.0570	1.08	<0.000010	<0.00010	<0.010
L2020333-5	WQ26	Surface		11/7/2017	<0.000050	6.06	<0.000010	2.50	0.0641	<0.50	<0.000010	<0.00010	<0.010
L2035356-3	WQ26	Surface		12/12/2017	<0.000050	6.28	<0.000010	3.00	0.0761	0.790	<0.000010	<0.00010	<0.010
L2049678-3	WQ26	Surface		1/24/2018	0.0000660	6.45	<0.000010	3.40	0.0848	0.860	<0.000010	<0.00010	<0.010

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Selenium (Se)-Total	Silicon (Si)-Total	Silver (Ag)-Total	Sodium (Na)-Total	Strontium (Sr)-Total	Sulfur (S)-Total	Thallium (Tl)-Total	Tin (Sn)-Total	Titanium (Ti)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2057605-1	WQ26	Surface		2/14/2018	0.0000600	6.52	<0.000010	3.50	0.0878	0.950	<0.000010	<0.00010	<0.010
L2074294-4	WQ26	Surface		3/28/2018	0.0000560	6.17	<0.000010	3.50	0.0985	1.00	<0.000010	<0.00010	<0.010
L2081503-5	WQ26	Surface		4/17/2018	<0.000050	6.28	<0.000010	3.60	0.0948	1.49	<0.000010	<0.00010	<0.010
L2097084-5	WQ26	Surface		5/16/2018	0.0000640	5.07	0.0000140	<2.0	0.0254	<0.50	<0.000010	<0.00010	0.0170
L2103632-4	WQ26	Surface		5/29/2018	<0.000050	5.22	<0.000010	<2.0	0.0360	<0.50	<0.000010	<0.00010	<0.010
L2132986-5	WQ26	Surface		7/18/2018	0.0000700	6.01	<0.000010	2.90	0.0708	<0.50	<0.000010	<0.00010	<0.010
L2143640-4	WQ26	Surface	Dup	8/7/2018	0.0000760	6.17	<0.000010	3.20	0.0775	0.790	<0.000010	<0.00010	<0.010
L2143640-3	WQ26	Surface		8/7/2018	0.0000600	5.98	<0.000010	3.20	0.0775	0.690	<0.000010	<0.00010	<0.010
L2156026-1	WQ26	Surface		8/28/2018	<0.000050	5.94	<0.000010	3.70	0.0973	0.610	<0.000010	<0.00010	<0.010
L2159605-1	WQ26	Surface		9/4/2018	<0.000050	6.08	<0.000010	3.30	0.0919	0.990	<0.000010	<0.00010	<0.010
L2160840-4	WQ26	Surface	Dup	9/7/2018	<0.000050	6.20	<0.000010	3.70	0.0972	0.770	<0.000010	<0.00010	<0.010
L2160840-1	WQ26	Surface		9/7/2018	<0.000050	6.23	<0.000010	3.70	0.0963	0.720	<0.000010	<0.00010	<0.010
L2163669-3	WQ26	Surface		9/11/2018	<0.000050	5.87	<0.000010	3.80	0.0912	0.700	<0.000010	<0.00010	<0.010
L2188218-4	WQ26	Surface		10/26/2018	<0.000050	6.69	<0.000010	3.00	0.0723	0.710	<0.000010	<0.00010	<0.010
L2203408-1	WQ26	Surface		11/27/2018	0.0000600	6.20	<0.000010	2.70	0.0592	<0.50	<0.000010	<0.00010	<0.010
L2213246-2	WQ26	Surface		12/18/2018	0.0000720	6.51	<0.000010	2.80	0.0734	0.610	<0.000010	<0.00010	<0.010
L2227701-2	WQ26	Surface		1/30/2019	0.0000510	6.15	<0.000010	3.30	0.0870	0.900	<0.000010	<0.00010	<0.010
L2232050-1	WQ26	Surface		2/11/2019	<0.000050	6.31	<0.000010	3.30	0.0926	0.980	<0.000010	<0.00010	<0.010
L2244756-5	WQ26	Surface	Dup	3/13/2019	0.0000800	6.18	<0.000010	3.50	0.105	0.620	<0.000010	<0.00010	<0.010
L2244756-2	WQ26	Surface		3/13/2019	<0.000050	6.07	<0.000010	3.50	0.102	0.680	<0.000010	<0.00010	<0.010
L2256053-2	WQ26	Surface		4/8/2019	0.0000720	6.42	<0.000010	2.70	0.0712	0.660	<0.000010	<0.00010	<0.010
L2269368-2	WQ26	Surface		5/4/2019	<0.000050	4.99	0.0000100	2.00	0.0419	0.540	<0.000010	<0.00010	<0.010
L2273497-4	WQ26	Surface		5/13/2019	0.0000540	4.76	0.0000130	<2.0	0.0376	<0.50	<0.000010	<0.00010	<0.010
L2277964-7	WQ26	Surface		5/21/2019	0.0000920	4.46	0.0000170	<2.0	0.0290	<0.50	<0.000010	0.000170	0.0150
L2282975-2	WQ26	Surface		5/29/2019	<0.000050	5.43	<0.000010	<2.0	0.0399	<0.50	<0.000010	<0.00010	<0.010
L2285579-2	WQ26	Surface		6/3/2019	<0.000050	5.27	<0.000010	2.10	0.0456	0.510	<0.000010	<0.00010	<0.010
L2312637-3	WQ26	Surface		7/16/2019	0.0000640	5.69	<0.000010	2.50	0.0519	<0.50	<0.000010	<0.00010	<0.010
L2326388-3	WQ26	Surface		8/8/2019	0.0000530	6.37	<0.000010	2.60	0.0571	<0.50	<0.000010	<0.00010	<0.010
L2349445-7	WQ26	Surface	Dup	9/16/2019	<0.000050	6.36	<0.000010	3.00	0.0697	<0.50	<0.000010	<0.00010	<0.010
L2349445-5	WQ26	Surface		9/16/2019	<0.000050	6.33	<0.000010	2.90	0.0720	<0.50	<0.000010	<0.00010	<0.010
L2371052-6	WQ26	Surface	Dup	10/22/2019	0.0000800	5.85	<0.000010	2.40	0.0517	<0.50	<0.000010	0.000100	<0.010
L2371052-4	WQ26	Surface		10/22/2019	0.0000590	5.94	<0.000010	2.50	0.0524	<0.50	<0.000010	<0.00010	<0.010
L2383392-2	WQ26	Surface		11/14/2019	0.0000590	6.36	<0.000010	2.30	0.0452	<0.50	<0.000010	<0.00010	<0.010
VA19A0726-001	WQ26	Surface		12/16/2019	0.0000590	6.80	<0.000010	2.44	0.0588	<0.50	<0.000010	<0.00010	0.00126
VA20A0688-002	WQ26	Surface		1/21/2020	0.0000510	6.58	<0.000010	2.93	0.0722	<0.50	<0.000010	<0.00010	0.000590
VA20A1887-002	WQ26	Surface		2/13/2020	0.0000640	6.59	<0.000010	3.11	0.0814	0.800	<0.000010	<0.00010	<0.00030
VA20A3516-002	WQ26	Surface		3/16/2020	<0.000050	6.56	<0.000010	3.27	0.0908	0.640	<0.000010	<0.00010	<0.00030
VA20A4555-001	WQ26	Surface		4/7/2020	0.000126	6.55	<0.000010	3.48	0.0963	1.03	<0.000010	<0.00010	<0.00030
VA20A6574-003	WQ26	Surface		5/14/2020	<0.000050	4.92	<0.000010	1.62	0.0348	<0.50	<0.000010	<0.00010	0.00415
VA20B2156-002	WQ26	Surface		8/5/2020	<0.000050	6.05	<0.000010	3.04	0.0722	<0.50	<0.000010	<0.00010	0.000580
VA20C1166-003	WQ26	Surface		11/17/2020	<0.000050	5.49	<0.000010	2.18	0.0463	<0.50	<0.000010	<0.00010	0.00596
	WQ27	Surface		4/13/2014	<0.0001	5.43	<0.00005	3.20	0.0889	-	<0.00005	<0.0001	0.000200
	WQ27	Surface		7/2/2014	<0.0001	5.44	<0.00005	2.40	0.0531	-	<0.00005	<0.0001	0.000700
	WQ27	Surface		9/24/2014	<0.0001	5.63	<0.00005	3.80	0.114	-	<0.00005	<0.0001	0.000200

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Selenium (Se)-Total	Silicon (Si)-Total	Silver (Ag)-Total	Sodium (Na)-Total	Strontium (Sr)-Total	Sulfur (S)-Total	Thallium (Tl)-Total	Tin (Sn)-Total	Titanium (Ti)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ27	Surface		12/9/2014	<0.0001	6.21	<0.00005	3.50	0.0927	-	<0.00005	<0.0001	0.000200
L1762266-4	WQ27	Surface		4/27/2016	<0.000050	4.88	<0.000010	<2.0	0.0301	-	<0.000010	<0.00010	<0.010
L1764648-6	WQ27	Surface		5/3/2016	<0.000050	4.97	<0.000010	<2.0	0.0280	-	<0.000010	<0.00010	<0.010
L1767107-4	WQ27	Surface		5/9/2016	0.0000630	5.20	<0.000010	<2.0	0.0323	-	<0.000010	<0.00010	<0.010
L1770672-4	WQ27	Surface		5/16/2016	<0.000050	5.29	<0.000010	<2.0	0.0377	-	<0.000010	<0.00010	<0.010
L1774541-3	WQ27	Surface		5/25/2016	<0.000050	5.44	<0.000010	2.20	0.0430	-	<0.000010	<0.00010	<0.010
L1788643-6	WQ27	Surface	Dup	6/22/2016	<0.000050	5.26	<0.000010	2.20	0.0396	-	<0.000010	<0.00010	<0.010
L1788643-3	WQ27	Surface		6/22/2016	0.0000560	5.24	<0.000010	2.20	0.0390	-	0.0000110	<0.00010	<0.010
L1808945-3	WQ27	Surface		8/3/2016	<0.000050	6.22	<0.000010	2.40	0.0576	-	<0.000010	<0.00010	<0.010
L1812856-3	WQ27	Surface		8/10/2016	<0.000050	6.11	<0.000010	2.50	0.0618	-	<0.000010	<0.00010	<0.010
L1815654-3	WQ27	Surface		8/16/2016	<0.000050	6.21	<0.000010	2.90	0.0701	-	<0.000010	<0.00010	<0.010
L1819041-10	WQ27	Surface		8/23/2016	0.0000550	5.87	<0.000010	2.70	0.0660	-	<0.000010	<0.00010	<0.010
L1823224-6	WQ27	Surface		8/31/2016	0.0000540	5.94	<0.000010	2.60	0.0658	-	<0.000010	<0.00010	<0.010
L1826303-2	WQ27	Surface		9/7/2016	0.0000570	5.82	<0.000010	2.30	0.0579	-	<0.000010	<0.00010	<0.010
L1913006-2	WQ27	Surface		4/11/2017	0.0000680	6.09	<0.000010	3.30	0.0946	-	<0.000010	<0.00010	<0.010
L1925486-3	WQ27	Surface		5/10/2017	<0.000050	4.92	0.0000130	<2.0	0.0367	-	<0.000010	<0.00010	<0.010
L1928943-2	WQ27	Surface		5/17/2017	0.0000570	5.03	0.0000100	<2.0	0.0335	-	<0.000010	<0.00010	<0.010
L1932034-2	WQ27	Surface		5/24/2017	<0.000050	4.40	0.0000110	<2.0	0.0306	-	<0.000010	<0.00010	<0.010
L1935151-2	WQ27	Surface		5/30/2017	<0.000050	4.38	<0.000010	<2.0	0.0248	-	<0.000010	<0.00010	<0.010
L1939712-2	WQ27	Surface		6/7/2017	0.0000520	4.84	<0.000010	<2.0	0.0312	-	<0.000010	<0.00010	<0.010
L1961670-3	WQ27	Surface		7/18/2017	0.0000500	5.91	<0.000010	2.80	0.0674	-	<0.000010	<0.00010	<0.010
L1984944-3	WQ27	Surface		8/30/2017	0.0000570	6.31	<0.000010	3.70	0.108	1.04	<0.000010	<0.00010	<0.010
L1988832-2	WQ27	Surface		9/8/2017	<0.000050	6.02	<0.000010	3.70	0.101	0.880	<0.000010	<0.00010	<0.010
L1991279-2	WQ27	Surface	Dup	9/13/2017	<0.000050	6.16	<0.000010	3.50	0.0914	1.08	<0.000010	<0.00010	<0.010
L1991279-6	WQ27	Surface		9/13/2017	0.0000530	6.21	<0.000010	3.50	0.0891	1.03	<0.000010	<0.00010	<0.010
L1995655-2	WQ27	Surface		9/21/2017	0.0000570	5.85	<0.000010	3.00	0.0740	0.920	<0.000010	<0.00010	<0.010
L1999769-2	WQ27	Surface		9/28/2017	<0.000050	6.22	<0.000010	3.30	0.0857	0.970	<0.000010	<0.00010	<0.010
L2011329-3	WQ27	Surface		10/19/2017	0.0000540	5.76	<0.000010	2.60	0.0538	0.870	<0.000010	<0.00010	<0.010
L2020946-2	WQ27	Surface		11/8/2017	<0.000050	5.97	<0.000010	2.30	0.0476	0.670	<0.000010	<0.00010	<0.010
L2035356-2	WQ27	Surface		12/12/2017	0.0000870	6.14	<0.000010	2.50	0.0626	0.620	<0.000010	<0.00010	<0.010
L2049678-4	WQ27	Surface		1/24/2018	0.0000750	6.29	<0.000010	3.10	0.0775	0.790	<0.000010	<0.00010	<0.010
L2057605-2	WQ27	Surface		2/14/2018	0.0000750	6.36	<0.000010	3.20	0.0775	0.880	<0.000010	<0.00010	<0.010
L2074294-5	WQ27	Surface		3/28/2018	0.0000600	6.01	<0.000010	3.20	0.0878	1.18	<0.000010	<0.00010	<0.010
L2081503-6	WQ27	Surface		4/17/2018	0.0000970	6.13	<0.000010	3.10	0.0832	1.42	<0.000010	<0.00010	<0.010
L2093061-1	WQ27	Surface		5/9/2018	0.0000570	4.97	0.0000200	<2.0	0.0253	<0.50	<0.000010	<0.00010	0.0170
L2097084-6	WQ27	Surface		5/16/2018	0.0000530	4.58	0.0000130	<2.0	0.0230	<0.50	<0.000010	<0.00010	0.0100
L2100419-3	WQ27	Surface	Dup	5/23/2018	0.0000550	4.39	<0.000010	<2.0	0.0257	<0.50	<0.000010	<0.00010	<0.010
L2100419-1	WQ27	Surface		5/23/2018	<0.000050	4.44	<0.000010	<2.0	0.0242	<0.50	<0.000010	<0.00010	<0.010
L2103632-5	WQ27	Surface		5/29/2018	<0.000050	5.11	<0.000010	<2.0	0.0297	<0.50	<0.000010	<0.00010	<0.010
L2106738-3	WQ27	Surface	Dup	6/4/2018	<0.000050	5.27	<0.000010	<2.0	0.0330	<0.50	0.0000150	<0.00010	<0.010
L2106738-1	WQ27	Surface		6/4/2018	0.0000590	5.29	<0.000010	<2.0	0.0340	<0.50	<0.000010	<0.00010	<0.010
L2132986-4	WQ27	Surface		7/18/2018	0.0000560	5.75	<0.000010	3.00	0.0674	<0.50	<0.000010	<0.00010	<0.010
L2143640-8	WQ27	Surface		8/7/2018	0.0000570	5.78	<0.000010	2.90	0.0705	0.790	<0.000010	<0.00010	<0.010
L2156026-4	WQ27	Surface	Dup	8/28/2018	<0.000050	5.76	<0.000010	3.40	0.0922	0.630	<0.000010	<0.00010	<0.010

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Selenium (Se)-Total	Silicon (Si)-Total	Silver (Ag)-Total	Sodium (Na)-Total	Strontium (Sr)-Total	Sulfur (S)-Total	Thallium (Tl)-Total	Tin (Sn)-Total	Titanium (Ti)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2156026-2	WQ27	Surface		8/28/2018	<0.000050	5.71	<0.000010	3.40	0.0918	0.690	<0.000010	<0.000010	<0.010
L2159605-2	WQ27	Surface		9/4/2018	<0.000050	5.68	<0.000010	3.00	0.0887	0.870	<0.000010	<0.000010	<0.010
L2160840-2	WQ27	Surface		9/7/2018	0.0000580	5.95	<0.000010	3.40	0.0935	0.710	<0.000010	<0.000010	<0.010
L2163669-4	WQ27	Surface		9/11/2018	0.0000640	5.74	<0.000010	3.20	0.0839	0.890	<0.000010	<0.000010	<0.010
L2188218-3	WQ27	Surface		10/26/2018	<0.000050	6.44	<0.000010	2.80	0.0661	0.700	<0.000010	<0.000010	<0.010
L2204508-6	WQ27	Surface	Dup	11/29/2018	0.0000610	6.24	<0.000010	2.10	0.0561	<0.50	<0.000010	<0.000010	<0.010
L2204508-4	WQ27	Surface		11/29/2018	<0.000050	6.19	<0.000010	2.20	0.0522	<0.50	<0.000010	<0.000010	<0.010
L2213246-3	WQ27	Surface		12/18/2018	0.0000510	6.42	<0.000010	2.50	0.0669	0.530	<0.000010	<0.000010	<0.010
L2227701-3	WQ27	Surface		1/30/2019	0.0000610	5.98	<0.000010	3.10	0.0752	0.910	<0.000010	<0.000010	<0.010
L2232050-2	WQ27	Surface		2/11/2019	0.0000550	6.19	<0.000010	3.10	0.0830	0.950	<0.000010	<0.000010	<0.010
L2244756-3	WQ27	Surface		3/13/2019	0.0000880	6.00	<0.000010	3.30	0.0989	0.680	<0.000010	<0.000010	<0.010
L2256053-3	WQ27	Surface		4/8/2019	<0.000050	6.24	<0.000010	2.80	0.0755	1.01	<0.000010	<0.000010	<0.010
L2269368-3	WQ27	Surface		5/4/2019	0.0000540	5.01	0.0000110	<2.0	0.0378	<0.50	<0.000010	<0.000010	<0.010
L2274397-1	WQ27	Surface		5/14/2019	<0.000050	4.73	<0.000010	<2.0	0.0331	<0.50	<0.000010	<0.000010	<0.010
L2277964-6	WQ27	Surface		5/21/2019	<0.000050	4.56	0.0000140	<2.0	0.0259	<0.50	<0.000010	<0.000010	<0.010
L2282975-3	WQ27	Surface		5/29/2019	<0.000050	5.20	<0.000010	<2.0	0.0345	<0.50	<0.000010	<0.000010	<0.010
L2285579-3	WQ27	Surface		6/3/2019	0.0000700	5.18	<0.000010	<2.0	0.0351	<0.50	<0.000010	<0.000010	<0.010
L2312637-4	WQ27	Surface		7/16/2019	<0.000050	5.67	<0.000010	2.20	0.0457	<0.50	<0.000010	<0.000010	<0.010
L2326388-2	WQ27	Surface		8/8/2019	<0.000050	5.79	<0.000010	2.20	0.0461	<0.50	<0.000010	<0.000010	<0.010
L2350223-2	WQ27	Surface		9/17/2019	0.0000660	6.02	<0.000010	2.50	0.0558	0.590	<0.000010	<0.000010	<0.010
L2372667-2	WQ27	Surface		10/23/2019	<0.000050	5.96	<0.000010	2.20	0.0467	0.560	<0.000010	<0.000010	<0.010
L2383392-3	WQ27	Surface		11/14/2019	<0.000050	6.04	<0.000010	2.20	0.0382	<0.50	<0.000010	<0.000010	<0.010
VA19A0726-002	WQ27	Surface		12/16/2019	<0.000050	6.45	<0.000010	2.30	0.0502	<0.50	<0.000010	<0.000010	0.00174
VA20A0812-002	WQ27	Surface		1/23/2020	0.0000540	6.51	<0.000010	2.56	0.0634	0.620	<0.000010	<0.000010	0.000700
VA20A1887-005	WQ27	Surface		2/13/2020	0.000106	6.24	<0.000010	2.81	0.0697	0.710	<0.000010	<0.000010	0.000370
VA20A3516-003	WQ27	Surface		3/16/2020	0.0000660	6.56	<0.000010	3.08	0.0821	0.740	<0.000010	<0.000010	0.000310
VA20A4369-002	WQ27	Surface		4/1/2020	<0.000050	6.14	<0.000010	3.35	0.0820	0.800	<0.000010	<0.000010	0.000400
L1913006-4	WQ28	Surface		4/11/2017	0.0000840	6.09	<0.000010	3.20	0.0938	-	<0.000010	<0.000010	<0.010
L1925486-2	WQ28	Surface		5/10/2017	<0.000050	4.92	0.0000120	<2.0	0.0359	-	<0.000010	<0.000010	<0.010
L1928943-3	WQ28	Surface		5/17/2017	<0.000050	5.12	<0.000010	<2.0	0.0330	-	<0.000010	<0.000010	<0.010
L1932034-4	WQ28	Surface	Dup	5/24/2017	<0.000050	4.37	0.0000120	<2.0	0.0302	-	<0.000010	<0.000010	<0.010
L1932034-1	WQ28	Surface		5/24/2017	<0.000050	4.38	0.0000110	<2.0	0.0298	-	<0.000010	<0.000010	<0.010
L1935151-3	WQ28	Surface		5/30/2017	<0.000050	4.28	<0.000010	<2.0	0.0242	-	<0.000010	<0.000010	<0.010
L1939712-1	WQ28	Surface		6/7/2017	<0.000050	4.96	<0.000010	<2.0	0.0320	-	<0.000010	<0.000010	<0.010
L1961670-5	WQ28	Surface	Dup	7/18/2017	0.0000510	5.62	<0.000010	2.70	0.0655	-	<0.000010	<0.000010	<0.010
L1961670-4	WQ28	Surface		7/18/2017	0.0000630	5.53	<0.000010	2.40	0.0640	-	<0.000010	<0.000010	<0.010
L1984944-2	WQ28	Surface		8/30/2017	0.0000810	6.31	<0.000010	3.70	0.108	0.980	<0.000010	<0.000010	<0.010
L1988832-3	WQ28	Surface		9/8/2017	0.0000530	6.01	<0.000010	3.60	0.0977	0.670	<0.000010	<0.000010	<0.010
L1991279-1	WQ28	Surface		9/13/2017	0.0000510	6.36	<0.000010	3.50	0.0893	0.890	<0.000010	<0.000010	<0.010
L1995655-3	WQ28	Surface	Dup	9/21/2017	<0.000050	5.77	<0.000010	3.00	0.0709	0.950	<0.000010	<0.000010	<0.010
L1995655-5	WQ28	Surface		9/21/2017	0.0000500	5.86	<0.000010	2.90	0.0691	0.850	<0.000010	<0.000010	<0.010
L1999769-3	WQ28	Surface	Dup	9/28/2017	0.0000610	6.14	<0.000010	3.40	0.0841	0.960	<0.000010	<0.000010	<0.010
L1999769-4	WQ28	Surface		9/28/2017	0.0000730	6.17	<0.000010	3.30	0.0840	0.910	<0.000010	<0.000010	<0.010
L2011329-4	WQ28	Surface		10/19/2017	0.0000520	5.65	<0.000010	2.50	0.0523	0.960	<0.000010	<0.000010	<0.010

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Selenium (Se)-Total	Silicon (Si)-Total	Silver (Ag)-Total	Sodium (Na)-Total	Strontium (Sr)-Total	Sulfur (S)-Total	Thallium (Tl)-Total	Tin (Sn)-Total	Titanium (Ti)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2020946-3	WQ28	Surface		11/8/2017	<0.000050	5.86	<0.000010	2.20	0.0483	0.600	<0.000010	<0.000010	<0.010
L2035356-1	WQ28	Surface		12/12/2017	0.0000680	6.22	<0.000010	2.60	0.0629	0.570	<0.000010	<0.000010	<0.010
L2049678-5	WQ28	Surface		1/24/2018	0.0000780	6.28	<0.000010	2.90	0.0731	0.580	<0.000010	<0.000010	<0.010
L2057605-3	WQ28	Surface		2/14/2018	0.0000600	6.33	<0.000010	3.20	0.0728	0.810	<0.000010	<0.000010	<0.010
L2074294-6	WQ28	Surface		3/28/2018	0.0000770	5.93	<0.000010	3.00	0.0867	1.00	<0.000010	<0.000010	<0.010
L2081503-7	WQ28	Surface		4/17/2018	0.0000630	6.17	<0.000010	3.00	0.0813	1.53	<0.000010	<0.000010	<0.010
L2093061-3	WQ28	Surface	Dup	5/9/2018	0.0000550	4.99	0.0000180	<2.0	0.0247	<0.50	<0.000010	<0.000010	0.0160
L2093061-2	WQ28	Surface		5/9/2018	0.0000580	4.91	0.0000240	<2.0	0.0263	<0.50	<0.000010	<0.000010	0.0160
L2097084-7	WQ28	Surface		5/16/2018	<0.000050	4.47	0.0000120	<2.0	0.0233	<0.50	<0.000010	<0.000010	<0.011
L2100419-2	WQ28	Surface		5/23/2018	<0.000050	4.26	<0.000010	<2.0	0.0243	<0.50	<0.000010	<0.000010	<0.010
L2103632-6	WQ28	Surface		5/29/2018	<0.000050	5.03	<0.000010	<2.0	0.0294	<0.50	<0.000010	<0.000010	<0.010
L2106738-2	WQ28	Surface		6/4/2018	<0.000050	5.20	<0.000010	<2.0	0.0321	<0.50	0.0000100	<0.000010	<0.010
L2132986-3	WQ28	Surface		7/18/2018	0.0000650	5.57	<0.000010	2.60	0.0623	0.520	<0.000010	<0.000010	<0.010
L2143640-7	WQ28	Surface		8/7/2018	0.0000570	5.80	<0.000010	2.90	0.0688	0.750	<0.000010	<0.000010	<0.010
L2156026-3	WQ28	Surface		8/28/2018	0.0000570	5.90	<0.000010	3.50	0.0944	0.530	<0.000010	<0.000010	<0.010
L2159605-4	WQ28	Surface	Dup	9/4/2018	<0.000050	5.91	<0.000010	3.00	0.0892	0.940	<0.000010	<0.000010	<0.010
L2159605-3	WQ28	Surface		9/4/2018	0.0000510	5.85	<0.000010	3.00	0.0853	0.960	<0.000010	<0.000010	<0.010
L2160840-3	WQ28	Surface		9/7/2018	0.0000680	5.90	<0.000010	3.40	0.0935	0.610	<0.000010	<0.000010	<0.010
L2163669-5	WQ28	Surface		9/11/2018	<0.000050	5.84	<0.000010	3.30	0.0852	0.780	<0.000010	<0.000010	<0.010
L2188218-2	WQ28	Surface		10/26/2018	0.0000700	6.62	<0.000010	2.60	0.0625	0.800	<0.000010	<0.000010	<0.010
L2204508-5	WQ28	Surface		11/29/2018	0.0000530	6.12	<0.000010	2.20	0.0544	<0.50	<0.000010	<0.000010	<0.010
L2213246-4	WQ28	Surface		12/18/2018	0.0000660	6.68	<0.000010	2.60	0.0668	0.720	<0.000010	<0.000010	<0.010
L2227701-4	WQ28	Surface		1/30/2019	<0.000050	6.06	0.0000100	2.90	0.0741	0.930	<0.000010	<0.000010	<0.010
L2232050-3	WQ28	Surface		2/11/2019	0.0000510	6.21	<0.000010	3.10	0.0807	0.960	<0.000010	<0.000010	<0.010
L2244756-4	WQ28	Surface		3/13/2019	0.0000950	6.12	<0.000010	3.40	0.0964	0.800	<0.000010	<0.000010	<0.010
L2256053-4	WQ28	Surface		4/8/2019	<0.000050	6.16	<0.000010	3.10	0.0861	0.970	<0.000010	<0.000010	<0.010
L2269368-4	WQ28	Surface		5/4/2019	0.0000580	5.02	<0.000010	<2.0	0.0369	<0.50	<0.000010	<0.000010	<0.010
L2274397-2	WQ28	Surface		5/14/2019	<0.000050	4.82	<0.000010	<2.0	0.0329	<0.50	<0.000010	<0.000010	<0.010
L2277964-8	WQ28	Surface	Dup	5/21/2019	<0.000050	4.08	0.0000140	<2.0	0.0244	<0.50	<0.000010	<0.000010	<0.010
L2277964-5	WQ28	Surface		5/21/2019	<0.000050	4.28	0.0000120	<2.0	0.0245	<0.50	<0.000010	<0.000010	<0.010
L2282975-6	WQ28	Surface	Dup	5/29/2019	<0.000050	5.14	<0.000010	<2.0	0.0343	<0.50	<0.000010	<0.000010	<0.010
L2282975-4	WQ28	Surface		5/29/2019	0.0000550	5.09	<0.000010	<2.0	0.0318	<0.50	<0.000010	<0.000010	<0.010
L2285579-4	WQ28	Surface		6/3/2019	0.0000520	5.10	<0.000010	2.00	0.0343	<0.50	<0.000010	<0.000010	<0.010
L2312637-5	WQ28	Surface		7/16/2019	<0.000050	5.70	<0.000010	2.10	0.0447	<0.50	<0.000010	<0.000010	<0.010
L2326388-4	WQ28	Surface		8/8/2019	0.0000520	6.18	<0.000010	2.20	0.0486	<0.50	<0.000010	<0.000010	<0.010
L2350223-3	WQ28	Surface		9/17/2019	0.0000680	5.96	<0.000010	2.60	0.0565	<0.50	<0.000010	<0.000010	<0.010
L2372667-3	WQ28	Surface		10/23/2019	<0.000050	5.95	<0.000010	2.30	0.0469	0.550	<0.000010	<0.000010	<0.010
L2383392-4	WQ28	Surface		11/14/2019	0.0000680	6.18	<0.000010	2.10	0.0376	<0.50	<0.000010	<0.000010	<0.010
VA19A0726-003	WQ28	Surface		12/16/2019	0.0000530	6.69	<0.000010	2.32	0.0491	<0.50	<0.000010	<0.000010	0.00110
VA20A0812-003	WQ28	Surface		1/23/2020	0.0000680	6.64	<0.000010	2.69	0.0626	0.690	<0.000010	<0.000010	0.000730
VA20A1887-004	WQ28	Surface		2/13/2020	0.0000800	6.41	<0.000010	2.83	0.0692	0.740	<0.000010	<0.000010	0.000450
VA20A3516-004	WQ28	Surface		3/16/2020	0.0000670	6.53	<0.000010	3.13	0.0796	0.600	<0.000010	<0.000010	0.000410
VA20A4369-003	WQ28	Surface		4/1/2020	0.0000710	6.11	<0.000010	3.34	0.0801	0.840	<0.000010	<0.000010	0.000600
VA20A6356-004	WQ28	Surface		5/11/2020	<0.000050	4.73	<0.000010	1.47	0.0305	<0.50	<0.000010	<0.000010	0.00496

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					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
VA20B2426-005	WQ28	Surface		8/10/2020	0.0000690	5.88	<0.000010	2.82	0.0582	<0.50	<0.000010	<0.000010	0.000880
VA20C0197-004	WQ28	Surface		11/4/2020	<0.000050	5.50	<0.000010	1.72	0.0339	<0.50	<0.000010	<0.000010	0.00537
L2238112-1	WQ29	Surface		2/26/2019	0.0000850	5.28	<0.000010	4.10	0.102	1.40	<0.000010	<0.000010	<0.010
L2278768-1	WQ29	Surface		5/22/2019	0.0000890	4.75	<0.000010	2.60	0.0680	1.16	<0.000010	<0.000010	<0.010
L2325935-4	WQ29	Surface	Dup	8/7/2019	<0.000050	4.22	<0.000010	3.30	0.0892	0.980	<0.000010	<0.000010	<0.010
L2325935-2	WQ29	Surface		8/7/2019	0.0000540	4.33	<0.000010	3.30	0.0943	0.950	<0.000010	<0.000010	<0.010
L2388381-6	WQ29	Surface	Dup	11/25/2019	0.0000580	5.67	<0.000010	3.20	0.0825	1.30	<0.000010	<0.000010	<0.010
L2388381-5	WQ29	Surface		11/25/2019	<0.000050	5.55	<0.000010	3.20	0.0830	1.20	<0.000010	<0.000010	<0.010
VA20A1056-001	WQ29	Surface		1/28/2020	0.0000740	5.75	<0.000010	4.00	0.105	1.55	<0.000010	<0.000010	0.00136
VA20A1776-001	WQ29	Surface		2/2/2020	0.0000540	5.60	<0.000010	4.11	0.101	1.53	<0.000010	<0.000010	0.00161
VA20A3580-003	WQ29	Surface	Dup	3/17/2020	0.0000510	5.09	<0.000010	4.13	0.112	1.35	<0.000010	<0.000010	0.00105
VA20A3580-001	WQ29	Surface		3/17/2020	0.0000580	5.22	<0.000010	4.17	0.110	1.40	<0.000010	<0.000010	<0.00120
VA20A4424-003	WQ29	Surface	Dup	4/2/2020	0.0000620	5.07	<0.000010	4.44	0.109	1.25	<0.000010	<0.000010	0.00130
VA20A4424-001	WQ29	Surface		4/2/2020	0.0000900	5.17	<0.000010	4.38	0.111	1.33	<0.000010	<0.000010	0.00150
VA20A6114-001	WQ29	Surface		5/6/2020	<0.000050	4.88	<0.000010	3.08	0.0794	1.12	<0.000010	<0.000010	0.00322
VA20A6503-001	WQ29	Surface		5/13/2020	<0.000050	4.71	<0.000010	3.09	0.0843	0.960	<0.000010	<0.000010	0.00312
VA20A6869-004	WQ29	Surface		5/20/2020	0.0000740	4.58	<0.000010	2.49	0.0670	0.680	<0.000010	<0.000010	0.00207
VA20A7367-004	WQ29	Surface		5/28/2020	0.0000610	4.98	<0.000010	3.04	0.0805	1.07	<0.000010	<0.000010	0.00307
VA20A7797-001	WQ29	Surface		6/3/2020	0.0000540	4.79	<0.000010	3.16	0.0823	1.00	<0.000010	<0.000010	0.00334
VA20B0021-001	WQ29	Surface		7/7/2020	0.0000860	4.68	<0.000010	3.23	0.0864	0.880	<0.000010	<0.000010	0.00244
VA20B2012-001	WQ29	Surface		8/4/2020	<0.000050	3.99	<0.000010	3.71	0.0941	0.950	<0.000010	<0.000010	0.000910
VA20B2542-001	WQ29	Surface		8/11/2020	0.0000570	4.27	<0.000010	4.20	0.103	1.02	<0.000010	<0.000010	<0.00210
VA20B3033-001	WQ29	Surface		8/17/2020	0.0000840	4.78	<0.000010	3.74	0.108	1.11	<0.000010	<0.000010	0.00184
VA20B3860-001	WQ29	Surface		8/26/2020	0.0000940	4.39	<0.000010	3.84	0.108	0.740	<0.000010	<0.000010	0.000770
VA20B4443-001	WQ29	Surface		9/2/2020	0.0000700	4.60	<0.000010	3.85	0.0963	1.06	<0.000010	<0.000010	0.000670
VA20B7828-004	WQ29	Surface	Dup	10/8/2020	0.0000550	4.92	<0.000010	3.74	0.109	0.880	<0.000010	<0.000010	0.000890
VA20B7828-001	WQ29	Surface		10/8/2020	0.0000660	4.85	<0.000010	4.00	0.117	1.03	<0.000010	<0.000010	0.00114
VA20B9945-001	WQ29	Surface		11/2/2020	0.0000680	5.57	<0.000010	3.01	0.0807	0.820	<0.000010	<0.000010	0.00616
	WQ3	Surface		5/17/2011	< 0.0006	6.97	< 0.00005	2.00	0.0469	-	< 0.00005	< 0.0001	0.0165
	WQ3	Surface		5/25/2011	< 0.0006	5.50	< 0.00005	1.70	0.0287	-	< 0.00005	< 0.0001	0.00700
	WQ3	Surface		5/31/2011	< 0.0006	5.56	< 0.00005	1.60	0.0276	-	< 0.00005	< 0.0001	0.00370
	WQ3	Surface		6/7/2011	< 0.0006	5.48	< 0.00005	1.80	0.0329	-	< 0.00005	< 0.0001	0.00300
	WQ3	Surface		6/14/2011	< 0.0006	6.20	< 0.00005	2.10	0.0420	-	< 0.00005	< 0.0001	0.00230
	WQ3	Surface		7/19/2011	< 0.0006	7.73	< 0.00005	2.50	0.0530	-	< 0.00005	< 0.0001	0.00230
	WQ3	Surface		8/16/2011	< 0.0006	7.83	< 0.00005	3.20	0.0693	-	< 0.00005	< 0.0001	0.00370
	WQ3	Surface		9/20/2011	< 0.0006	8.31	< 0.00005	3.50	0.0787	-	< 0.00005	< 0.0001	0.00290
	WQ3	Surface		10/18/2011	< 0.0006	8.28	< 0.00005	3.40	0.0734	-	< 0.00005	< 0.0001	0.000800
	WQ3	Surface		11/15/2011	< 0.0006	8.10	< 0.00005	3.40	0.0823	-	< 0.00005	< 0.0001	0.00120
	WQ3	Surface		12/12/2011	< 0.0006	8.77	< 0.00005	3.70	0.0841	-	< 0.00005	< 0.0001	0.00180
	WQ3	Surface		1/12/2012	< 0.0006	10.5	< 0.00005	3.60	0.0866	-	< 0.00005	< 0.0001	0.00130
	WQ3	Surface		2/13/2012	< 0.0006	8.61	< 0.00005	3.50	0.0865	-	< 0.00005	< 0.0001	0.00550
	WQ3	Surface		3/12/2012	< 0.0006	9.62	< 0.00005	3.80	0.0860	-	< 0.00005	< 0.0001	0.000700
	WQ3	Surface		4/16/2012	< 0.0006	8.78	< 0.00005	3.70	0.0769	-	< 0.00005	< 0.0001	0.000700
	WQ3	Surface		5/14/2012	< 0.0006	6.06	< 0.00005	2.40	0.0507	-	< 0.00005	< 0.0001	0.00580

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					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ3	Surface		5/22/2012	< 0.0006	5.54	< 0.00005	2.10	0.0418	-	< 0.00005	< 0.0001	0.00680
	WQ3	Surface		5/29/2012	< 0.0006	5.88	< 0.00005	2.10	0.0393	-	< 0.00005	< 0.0001	0.00210
	WQ3	Surface		6/5/2012	< 0.0006	6.32	< 0.00005	2.20	0.0441	-	< 0.00005	< 0.0001	0.00150
	WQ3	Surface		6/12/2012	< 0.0006	7.37	< 0.00005	2.40	0.0495	-	< 0.00005	< 0.0001	0.00160
	WQ3	Surface		6/19/2012	< 0.0006	6.73	< 0.00005	2.50	0.0518	-	< 0.00005	< 0.0001	0.00170
	WQ3	Surface		7/17/2012	< 0.0006	8.25	< 0.00005	3.20	0.0698	-	< 0.00005	< 0.0001	0.00150
	WQ3	Surface		8/14/2012	< 0.0006	8.91	< 0.00005	3.70	0.0833	-	< 0.00005	< 0.0001	0.000800
	WQ3	Surface		9/18/2012	< 0.0006	8.54	< 0.00005	3.60	0.0813	-	< 0.00005	< 0.0001	0.00140
	WQ3	Surface		10/15/2012	< 0.0006	8.28	< 0.00005	4.20	0.0837	-	< 0.00005	< 0.0001	0.00120
	WQ3	Surface		11/13/2012	< 0.0006	8.93	< 0.00005	3.80	0.0798	-	< 0.00005	< 0.0001	0.00100
	WQ3	Surface		12/10/2012	< 0.0006	5.16	< 0.00005	3.70	0.103	-	< 0.00005	< 0.0001	0.000700
	WQ3	Surface		1/13/2013	< 0.0006	8.79	< 0.00005	3.90	0.0835	-	< 0.00005	< 0.0001	0.000800
	WQ3	Surface		2/12/2013	< 0.0006	9.51	< 0.00005	4.10	0.0827	-	< 0.00005	< 0.0001	0.000800
	WQ3	Surface		3/11/2013	< 0.0006	7.57	< 0.00005	4.10	0.0873	-	< 0.00005	< 0.0001	0.00120
	WQ3	Surface		4/15/2013	< 0.0001	7.24	< 0.00005	3.30	0.0806	-	< 0.00005	< 0.0001	0.00420
	WQ3	Surface		5/13/2013	< 0.0001	4.53	< 0.00005	2.00	0.0386	-	< 0.00005	< 0.0001	0.00410
	WQ3	Surface		5/22/2013	< 0.0001	5.28	< 0.00005	2.30	0.0454	-	< 0.00005	< 0.0001	0.00430
	WQ3	Surface		5/27/2013	< 0.0001	5.10	< 0.00005	2.40	0.0427	-	< 0.00005	< 0.0001	0.00350
	WQ3	Surface		6/6/2013	< 0.0001	5.84	< 0.00005	2.20	0.0422	-	< 0.00005	< 0.0001	0.00270
	WQ3	Surface		6/10/2013	< 0.0001	5.52	< 0.00005	2.50	0.0519	-	< 0.00005	< 0.0001	0.00280
	WQ3	Surface		6/17/2013	< 0.0001	6.03	< 0.00005	2.50	0.0485	-	< 0.00005	< 0.0001	0.00250
	WQ3	Surface	Dup	4/13/2014	<0.0001	7.61	<0.00005	3.60	0.0828	-	<0.00005	<0.0001	0.000600
	WQ3	Surface		4/13/2014	< 0.0001	7.51	< 0.00005	3.60	0.0823	-	< 0.00005	< 0.0001	0.000800
	WQ3	Surface		7/2/2014	<0.0001	7.34	<0.00005	3.20	0.0682	-	<0.00005	<0.0001	0.00170
	WQ3	Surface		9/24/2014	<0.0001	7.79	<0.00005	4.00	0.0935	-	<0.00005	<0.0001	0.00180
	WQ3	Surface		12/9/2014	<0.0001	8.82	<0.00005	3.80	0.0852	-	<0.00005	<0.0001	0.000600
L1926080-7	WQ3	Surface		5/11/2017	0.0000780	6.82	0.0000120	2.70	0.0513	-	<0.000010	<0.00010	0.0120
L1962414-1	WQ3	Surface		7/19/2017	0.000136	8.19	<0.000010	3.30	0.0475	-	<0.000010	<0.00010	<0.010
L1988190-1	WQ3	Surface		9/6/2017	0.000182	9.64	<0.000010	3.90	0.0777	<0.50	<0.000010	<0.00010	<0.010
L2010514-1	WQ3	Surface		10/18/2017	0.000172	8.57	0.0000120	3.20	0.0596	0.550	<0.000010	<0.00010	0.0160
L2060442-1	WQ3	Surface		2/23/2018	0.0000830	8.26	<0.000010	3.60	0.0824	<0.50	<0.000010	<0.00010	<0.010
L2103632-1	WQ3	Surface		5/29/2018	0.0000980	6.68	<0.000010	2.50	0.0437	<0.50	<0.000010	<0.00010	<0.010
L2143640-2	WQ3	Surface		8/7/2018	0.0000940	8.02	<0.000010	3.50	0.0788	<0.50	<0.000010	<0.00010	<0.010
L2204508-2	WQ3	Surface		11/29/2018	0.0000780	8.09	<0.000010	2.80	0.0677	<0.50	<0.000010	<0.00010	<0.010
L2232772-1	WQ3	Surface		2/12/2019	0.0000780	8.30	<0.000010	3.50	0.0757	<0.50	<0.000010	<0.00010	<0.010
L2273497-2	WQ3	Surface		5/13/2019	0.0000720	6.01	<0.000010	2.30	0.0482	<0.50	<0.000010	<0.00010	<0.010
L2328474-1	WQ3	Surface		8/12/2019	<0.000050	7.59	<0.000010	2.80	0.0553	<0.50	<0.000010	<0.00010	<0.010
L2385426-1	WQ3	Surface		11/18/2019	0.000130	6.63	0.0000180	2.30	0.0457	<0.50	0.0000740	<0.00010	<0.010
VA20A1830-002	WQ3	Surface		2/12/2020	0.000100	8.81	<0.000010	3.15	0.0692	<0.50	<0.000010	<0.00010	0.00118
VA20A6574-001	WQ3	Surface		5/14/2020	0.0000940	6.08	<0.000010	2.00	0.0386	<0.50	<0.000010	<0.00010	0.00342
VA20B2692-002	WQ3	Surface		8/12/2020	0.0000900	8.30	<0.000010	3.77	0.0750	<0.50	<0.000010	<0.00010	0.000830
VA20C1166-001	WQ3	Surface		11/17/2020	0.0000720	7.15	<0.000010	2.57	0.0528	<0.50	<0.000010	<0.00010	0.00421
L2239149-1	WQ30	Surface		2/28/2019	0.0000680	5.38	<0.000010	4.80	0.113	1.56	<0.000010	<0.00010	<0.010
L2278768-2	WQ30	Surface		5/22/2019	0.0000510	4.82	<0.000010	2.70	0.0669	1.22	<0.000010	<0.00010	<0.010

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Selenium (Se)-Total	Silicon (Si)-Total	Silver (Ag)-Total	Sodium (Na)-Total	Strontium (Sr)-Total	Sulfur (S)-Total	Thallium (Tl)-Total	Tin (Sn)-Total	Titanium (Ti)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2325935-1	WQ30	Surface		8/7/2019	<0.000050	4.29	<0.000010	3.30	0.0908	0.850	<0.000010	<0.000010	<0.010
L2385426-3	WQ30	Surface		11/18/2019	0.0000520	4.64	<0.000010	3.40	0.0709	0.890	<0.000010	0.000230	<0.010
VA20A1056-002	WQ30	Surface		1/28/2020	0.0000630	5.74	<0.000010	4.42	0.112	1.52	<0.000010	<0.000010	0.00230
VA20A1776-002	WQ30	Surface		2/2/2020	<0.000050	5.68	<0.000010	4.14	0.101	1.56	<0.000010	<0.000010	0.00148
VA20A3580-002	WQ30	Surface		3/17/2020	0.0000660	5.58	<0.000010	4.34	0.119	1.52	<0.000010	<0.000010	<0.00210
VA20A4424-002	WQ30	Surface		4/2/2020	0.0000650	5.48	<0.000010	4.86	0.118	1.50	<0.000010	<0.000010	<0.00150
VA20A6114-002	WQ30	Surface		5/6/2020	0.0000640	4.94	<0.000010	3.05	0.0770	0.870	<0.000010	<0.000010	0.00295
VA20A6503-005	WQ30	Surface	Dup	5/13/2020	0.0000580	4.50	<0.000010	3.22	0.0817	0.900	<0.000010	<0.000010	0.00252
VA20A6503-002	WQ30	Surface		5/13/2020	<0.000050	4.55	<0.000010	3.22	0.0798	1.04	<0.000010	<0.000010	0.00306
VA20A6869-005	WQ30	Surface		5/20/2020	0.0000690	4.60	<0.000010	2.56	0.0660	0.880	<0.000010	<0.000010	0.00327
VA20A7367-005	WQ30	Surface		5/28/2020	0.0000670	4.73	<0.000010	3.02	0.0795	0.970	<0.000010	<0.000010	0.00373
VA20A7797-002	WQ30	Surface		6/3/2020	0.0000610	4.92	<0.000010	3.13	0.0816	0.970	<0.000010	<0.000010	0.00502
VA20B0021-002	WQ30	Surface		7/7/2020	0.0000860	4.74	<0.000010	3.17	0.0836	1.01	<0.000010	<0.000010	0.00312
VA20B2012-002	WQ30	Surface		8/4/2020	0.0000770	4.22	<0.000010	4.13	0.0973	1.12	<0.000010	<0.000010	0.00130
VA20B2542-002	WQ30	Surface		8/11/2020	0.0000580	4.54	<0.000010	4.30	0.111	0.960	<0.000010	<0.000010	0.00120
VA20B3033-002	WQ30	Surface		8/17/2020	0.0000730	4.79	<0.000010	3.88	0.103	1.02	<0.000010	<0.000010	0.00138
VA20B3860-006	WQ30	Surface	Dup	8/26/2020	0.0000640	4.48	<0.000010	4.14	0.110	0.800	<0.000010	<0.000010	0.000950
VA20B3860-002	WQ30	Surface		8/26/2020	0.0000780	4.53	<0.000010	4.15	0.116	0.920	<0.000010	<0.000010	0.000800
VA20B4443-002	WQ30	Surface		9/2/2020	<0.000050	4.32	<0.000010	3.94	0.104	1.05	<0.000010	<0.000010	0.000620
VA20B7828-002	WQ30	Surface		10/8/2020	<0.000050	4.84	<0.000010	4.13	0.114	0.950	<0.000010	<0.000010	0.00124
VA20B9945-002	WQ30	Surface		11/2/2020	0.0000660	5.56	<0.000010	3.08	0.0778	0.660	<0.000010	<0.000010	0.00600
VA20A0688-001	WQ31	Surface		1/21/2020	0.0000590	6.49	<0.000010	2.15	0.0513	<0.50	<0.000010	<0.000010	0.00222
VA20A1887-003	WQ31	Surface		2/13/2020	<0.000050	6.20	<0.000010	2.24	0.0512	<0.50	<0.000010	<0.000010	0.00108
VA20A3516-005	WQ31	Surface		3/16/2020	<0.000050	6.37	<0.000010	2.43	0.0604	<0.50	<0.000010	<0.000010	0.000980
VA20A4369-004	WQ31	Surface		4/1/2020	<0.000050	5.85	<0.000010	2.68	0.0587	<0.50	<0.000010	<0.000010	0.000660
VA20A6356-005	WQ31	Surface		5/11/2020	<0.000050	4.45	<0.000010	1.24	0.0303	<0.50	<0.000010	<0.000010	0.00367
VA20A7672-005	WQ31	Surface	Dup	6/2/2020	0.0000660	4.58	<0.000010	1.40	0.0320	<0.50	<0.000010	<0.000010	0.00170
VA20A7672-001	WQ31	Surface		6/2/2020	0.0000590	4.68	<0.000010	1.38	0.0333	<0.50	<0.000010	<0.000010	0.00160
VA20A9918-004	WQ31	Surface		7/6/2020	<0.000050	5.31	<0.000010	1.56	0.0368	<0.50	<0.000010	<0.000010	0.00243
VA20B2426-002	WQ31	Surface		8/10/2020	<0.000050	5.54	<0.000010	2.15	0.0487	<0.50	<0.000010	<0.000010	0.00170
VA20B4313-004	WQ31	Surface	Dup	9/1/2020	<0.000050	5.83	<0.000010	2.13	0.0524	<0.50	<0.000010	<0.000010	0.00143
VA20B4313-002	WQ31	Surface		9/1/2020	<0.000050	5.70	<0.000010	2.07	0.0525	<0.50	<0.000010	<0.000010	0.00141
VA20B7624-005	WQ31	Surface		10/6/2020	<0.000050	5.75	<0.000010	2.32	0.0544	<0.50	<0.000010	<0.000010	0.00113
VA20C0197-001	WQ31	Surface		11/4/2020	<0.000050	5.36	<0.000010	1.53	0.0349	<0.50	<0.000010	<0.000010	0.00474
	WQ4	Surface		5/17/2011	< 0.0006	4.58	< 0.00005	1.40	0.0364	-	< 0.00005	< 0.0001	0.00360
	WQ4	Surface		5/24/2011	< 0.0006	4.11	< 0.00005	1.20	0.0302	-	< 0.00005	< 0.0001	0.00300
	WQ4	Surface		5/30/2011	< 0.0006	4.08	< 0.00005	1.10	0.0265	-	< 0.00005	< 0.0001	0.00210
	WQ4	Surface		6/6/2011	< 0.0006	3.74	< 0.00005	1.00	0.0230	-	< 0.00005	< 0.0001	0.00120
	WQ4	Surface		6/13/2011	< 0.0006	4.21	< 0.00005	1.10	0.0249	-	< 0.00005	< 0.0001	0.000900
	WQ4	Surface		7/18/2011	< 0.0006	5.56	< 0.00005	1.50	0.0315	-	< 0.00005	< 0.0001	0.00200
	WQ4	Surface		8/15/2011	< 0.0006	5.50	< 0.00005	1.70	0.0367	-	< 0.00005	< 0.0001	0.00590
	WQ4	Surface		9/19/2011	< 0.0006	5.44	< 0.00005	2.00	0.0420	-	< 0.00005	< 0.0001	0.000700
	WQ4	Surface		10/17/2011	< 0.0006	5.51	< 0.00005	1.80	0.0355	-	< 0.00005	< 0.0001	0.000900
	WQ4	Surface		11/14/2011	< 0.0006	5.28	< 0.00005	1.60	0.0331	-	< 0.00005	< 0.0001	0.00340

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Selenium (Se)-Total	Silicon (Si)-Total	Silver (Ag)-Total	Sodium (Na)-Total	Strontium (Sr)-Total	Sulfur (S)-Total	Thallium (Tl)-Total	Tin (Sn)-Total	Titanium (Ti)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ4	Surface	Dup	5/15/2012	< 0.0006	5.42	< 0.00005	2.10	0.0362	-	< 0.00005	< 0.0001	0.0357
	WQ4	Surface		5/15/2012	< 0.0006	5.45	< 0.00005	2.10	0.0363	-	< 0.00005	< 0.0001	0.0347
	WQ4	Surface		5/23/2012	< 0.0006	4.70	< 0.00005	2.00	0.0326	-	< 0.00005	< 0.0001	0.0109
	WQ4	Surface		5/28/2012	< 0.0006	4.60	< 0.00005	1.80	0.0278	-	< 0.00005	< 0.0001	0.00540
	WQ4	Surface		6/4/2012	< 0.0006	4.61	< 0.00005	1.80	0.0293	-	< 0.00005	< 0.0001	0.00220
	WQ4	Surface		6/11/2012	< 0.0006	5.20	< 0.00005	1.90	0.0329	-	< 0.00005	< 0.0001	0.00110
	WQ4	Surface		6/18/2012	< 0.0006	4.99	< 0.00005	1.80	0.0301	-	< 0.00005	< 0.0001	0.000900
	WQ4	Surface		7/16/2012	< 0.0006	6.58	< 0.00005	2.10	0.0404	-	< 0.00005	< 0.0001	0.00350
	WQ4	Surface		8/13/2012	< 0.0006	6.55	< 0.00005	2.40	0.0496	-	< 0.00005	< 0.0001	0.00270
	WQ4	Surface		9/17/2012	< 0.0006	5.73	< 0.00005	2.20	0.0456	-	< 0.00005	< 0.0001	0.000800
	WQ4	Surface		10/16/2012	< 0.0006	7.61	0.0000900	3.20	0.0637	-	< 0.00005	< 0.0001	0.0289
	WQ4	Surface		11/12/2012	< 0.0006	6.01	< 0.00005	4.90	0.0597	-	< 0.00005	< 0.0001	0.00160
	WQ4	Surface		12/10/2012	< 0.0006	5.22	0.0000600	5.60	0.0836	-	< 0.00005	< 0.0001	0.00660
	WQ4	Surface		5/14/2013	< 0.0001	3.65	0.000160	2.80	0.0300	-	< 0.00005	< 0.0001	0.00480
	WQ4	Surface		5/21/2013	< 0.0001	4.25	0.000130	3.30	0.0364	-	< 0.00005	< 0.0001	0.00230
	WQ4	Surface		5/28/2013	< 0.0001	4.17	0.000120	3.80	0.0386	-	< 0.00005	< 0.0001	0.00260
	WQ4	Surface		6/4/2013	< 0.0001	4.70	0.0000700	3.30	0.0371	-	< 0.00005	< 0.0001	0.00140
	WQ4	Surface		6/11/2013	< 0.0001	4.48	0.0000800	3.50	0.0443	-	< 0.00005	< 0.0001	0.00130
	WQ4	Surface		6/18/2013	< 0.0001	4.52	0.0000600	3.30	0.0428	-	< 0.00005	< 0.0001	0.00140
L1925102-1	WQ4	Surface		5/9/2017	<0.000050	4.78	0.0000500	<2.0	0.0394	-	<0.000010	<0.00010	<0.010
L1961670-1	WQ4	Surface		7/18/2017	<0.000050	5.22	<0.000010	2.60	0.0627	-	<0.000010	<0.00010	<0.010
L2011329-1	WQ4	Surface		10/19/2017	<0.000050	4.69	<0.000010	3.20	0.0707	9.09	<0.000010	<0.00010	<0.010
L2060101-1	WQ4	Surface		2/22/2018	<0.000050	5.71	0.0000170	3.50	0.0972	11.4	<0.000010	<0.00010	<0.010
L2102737-1	WQ4	Surface		5/28/2018	<0.000050	4.39	<0.000010	<2.0	0.0342	2.37	<0.000010	<0.00010	<0.010
L2144658-3	WQ4	Surface		8/8/2018	<0.000050	4.67	<0.000010	2.30	0.0549	2.90	<0.000010	<0.00010	<0.010
L2204086-2	WQ4	Surface		11/28/2018	<0.000050	5.97	<0.000010	2.10	0.0368	2.75	<0.000010	<0.00010	<0.010
L2233329-1	WQ4	Surface		2/13/2019	<0.000050	6.30	0.0000150	2.30	0.0469	3.15	<0.000010	<0.00010	<0.010
L2275791-2	WQ4	Surface	Dup	5/16/2019	<0.000050	4.18	0.0000150	2.10	0.0406	3.37	<0.000010	<0.00010	<0.010
L2275791-1	WQ4	Surface		5/16/2019	<0.000050	4.62	0.0000110	2.10	0.0405	3.29	<0.000010	<0.00010	<0.010
L2329543-1	WQ4	Surface		8/13/2019	<0.000050	4.92	<0.000010	2.60	0.0594	3.05	<0.000010	<0.00010	<0.010
L2378996-2	WQ4	Surface		11/5/2019	<0.000050	5.34	<0.000010	2.50	0.0499	4.15	<0.000010	<0.00010	<0.010
VA20A2211-002	WQ4	Surface		2/20/2020	<0.000050	5.60	0.0000110	3.53	0.0950	10.6	<0.000010	<0.00010	0.00114
VA20A6810-002	WQ4	Surface		5/19/2020	<0.000050	3.73	0.0000130	1.62	0.0334	2.16	<0.000010	<0.00010	0.00105
VA20B2212-003	WQ4	Surface		8/6/2020	<0.000050	4.76	0.0000160	2.93	0.0746	5.75	<0.000010	<0.00010	0.00165
VA20C1415-002	WQ4	Surface		11/19/2020	<0.000050	5.66	<0.000010	2.31	0.0546	5.17	<0.000010	<0.00010	0.00105
	WQ5	Surface	Dup	5/17/2011	< 0.0006	4.80	< 0.00005	1.90	0.0298	-	< 0.00005	< 0.0001	0.0122
	WQ5	Surface		5/17/2011	< 0.0006	5.21	< 0.00005	1.90	0.0302	-	< 0.00005	< 0.0001	0.0137
	WQ5	Surface		5/25/2011	< 0.0006	4.08	< 0.00005	1.60	0.0186	-	< 0.00005	< 0.0001	0.00590
	WQ5	Surface		5/31/2011	< 0.0006	4.13	< 0.00005	1.30	0.0179	-	< 0.00005	< 0.0001	0.00410
	WQ5	Surface		6/7/2011	< 0.0006	3.92	< 0.00005	1.40	0.0184	-	< 0.00005	< 0.0001	0.00320
	WQ5	Surface		6/14/2011	< 0.0006	4.04	< 0.00005	1.50	0.0198	-	< 0.00005	< 0.0001	0.00240
	WQ5	Surface		7/19/2011	< 0.0006	5.30	< 0.00005	1.90	0.0286	-	< 0.00005	< 0.0001	0.00200
	WQ5	Surface		8/16/2011	< 0.0006	5.11	< 0.00005	2.20	0.0355	-	< 0.00005	< 0.0001	0.00130
	WQ5	Surface		9/20/2011	< 0.0006	5.80	< 0.00005	2.90	0.0546	-	< 0.00005	< 0.0001	0.000900

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					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ5	Surface		10/18/2011	< 0.0006	5.38	< 0.00005	2.50	0.0404	-	< 0.00005	< 0.0001	0.000900
	WQ5	Surface		11/15/2011	< 0.0006	5.31	< 0.00005	2.50	0.0421	-	< 0.00005	< 0.0001	0.00100
	WQ5	Surface		12/12/2011	< 0.0006	6.70	< 0.00005	2.90	0.0533	-	< 0.00005	< 0.0001	0.00170
	WQ5	Surface		5/14/2012	< 0.0006	4.46	< 0.00005	1.70	0.0232	-	< 0.00005	< 0.0001	0.00770
	WQ5	Surface		5/22/2012	< 0.0006	4.12	< 0.00005	1.60	0.0206	-	< 0.00005	< 0.0001	0.00580
	WQ5	Surface		5/29/2012	< 0.0006	4.19	< 0.00005	1.50	0.0187	-	< 0.00005	< 0.0001	0.00180
	WQ5	Surface		6/5/2012	< 0.0006	4.60	< 0.00005	1.60	0.0216	-	< 0.00005	< 0.0001	0.00180
	WQ5	Surface		6/12/2012	< 0.0006	4.71	< 0.00005	1.70	0.0238	-	< 0.00005	< 0.0001	0.00130
	WQ5	Surface		6/19/2012	< 0.0006	4.31	< 0.00005	1.80	0.0235	-	< 0.00005	< 0.0001	0.00130
	WQ5	Surface		7/17/2012	< 0.0006	5.31	< 0.00005	2.30	0.0364	-	< 0.00005	< 0.0001	0.00120
	WQ5	Surface		8/14/2012	< 0.0006	5.56	< 0.00005	2.50	0.0430	-	< 0.00005	< 0.0001	0.000800
	WQ5	Surface		9/18/2012	< 0.0006	5.98	< 0.00005	2.70	0.0478	-	< 0.00005	< 0.0001	0.000900
	WQ5	Surface		10/15/2012	< 0.0006	5.89	< 0.00005	3.30	0.0584	-	< 0.00005	< 0.0001	0.000800
	WQ5	Surface		11/13/2012	< 0.0006	5.59	< 0.00005	2.70	0.0460	-	< 0.00005	< 0.0001	0.00120
	WQ5	Surface		1/13/2013	< 0.0006	7.87	< 0.00005	3.50	0.0689	-	< 0.00005	< 0.0001	0.00190
	WQ5	Surface		4/15/2013	< 0.0001	5.72	< 0.00005	2.50	0.0398	-	< 0.00005	< 0.0001	0.00280
	WQ5	Surface		5/13/2013	< 0.0001	3.28	< 0.00005	1.40	0.0196	-	< 0.00005	< 0.0001	0.00230
	WQ5	Surface		5/22/2013	< 0.0001	3.65	< 0.00005	1.60	0.0228	-	< 0.00005	< 0.0001	0.00250
	WQ5	Surface		5/27/2013	< 0.0001	3.92	< 0.00005	1.80	0.0232	-	< 0.00005	< 0.0001	0.00280
	WQ5	Surface		6/6/2013	< 0.0001	4.17	< 0.00005	1.70	0.0233	-	< 0.00005	< 0.0001	0.00180
	WQ5	Surface		6/10/2013	< 0.0001	3.74	< 0.00005	1.70	0.0263	-	< 0.00005	< 0.0001	0.00250
	WQ5	Surface		6/17/2013	< 0.0001	4.19	< 0.00005	1.70	0.0256	-	< 0.00005	< 0.0001	0.00210
	WQ5	Surface		4/13/2014	< 0.0001	5.73	< 0.00005	2.80	0.0477	-	< 0.00005	< 0.0001	0.00170
	WQ5	Surface		7/2/2014	< 0.0001	4.25	< 0.00005	2.20	0.0336	-	< 0.00005	< 0.0001	0.00120
	WQ5	Surface		9/24/2014	< 0.0001	6.90	< 0.00005	3.90	0.0847	-	< 0.00005	< 0.0001	0.000800
	WQ5	Surface		12/8/2014	< 0.0001	6.73	< 0.00005	3.00	0.0604	-	< 0.00005	< 0.0001	0.00160
L1812856-8	WQ5	Surface		8/10/2016	<0.000050	5.57	<0.000010	2.40	0.0393	-	<0.000010	<0.00010	<0.010
L1815654-8	WQ5	Surface	Dup	8/16/2016	<0.000050	5.58	<0.000010	2.60	0.0424	-	<0.000010	<0.00010	<0.010
L1815654-6	WQ5	Surface		8/16/2016	<0.000050	5.75	<0.000010	2.60	0.0425	-	<0.000010	<0.00010	<0.010
L1819041-9	WQ5	Surface		8/23/2016	<0.000050	5.54	<0.000010	2.70	0.0462	-	<0.000010	<0.00010	<0.010
L1823224-1	WQ5	Surface	Dup	8/31/2016	<0.000050	4.94	<0.000010	2.30	0.0374	-	<0.000010	<0.00010	<0.010
L1823224-8	WQ5	Surface		8/31/2016	<0.000050	5.21	<0.000010	2.40	0.0399	-	<0.000010	<0.00010	<0.010
L1826303-4	WQ5	Surface		9/7/2016	<0.000050	4.58	<0.000010	2.10	0.0373	-	<0.000010	<0.00010	<0.010
L1925486-4	WQ5	Surface		5/10/2017	<0.000050	5.10	0.0000190	<2.0	0.0343	-	<0.000010	<0.00010	<0.010
L1962414-2	WQ5	Surface		7/19/2017	<0.000050	5.42	<0.000010	2.60	0.0406	-	<0.000010	<0.00010	<0.010
L1988190-2	WQ5	Surface		9/6/2017	0.0000930	7.27	0.0000100	3.40	0.0589	0.670	<0.000010	<0.00010	<0.010
L2010514-2	WQ5	Surface		10/18/2017	0.0000760	4.14	<0.000010	2.10	0.0264	0.550	<0.000010	<0.00010	<0.010
L2060442-2	WQ5	Surface		2/23/2018	0.0000700	4.31	<0.000010	3.60	0.106	1.21	<0.000010	<0.00010	<0.010
L2103632-2	WQ5	Surface		5/29/2018	0.0000720	5.42	<0.000010	2.20	0.0343	<0.50	<0.000010	<0.00010	<0.010
L2143640-1	WQ5	Surface		8/7/2018	0.0000820	5.91	<0.000010	3.30	0.0648	0.650	<0.000010	<0.00010	<0.010
L2204508-1	WQ5	Surface		11/29/2018	0.0000530	6.95	<0.000010	2.40	0.0486	0.740	<0.000010	<0.00010	<0.010
L2232772-2	WQ5	Surface		2/12/2019	<0.000050	7.82	<0.000010	3.20	0.0637	0.520	<0.000010	<0.00010	<0.010
L2273497-3	WQ5	Surface		5/13/2019	0.0000550	4.66	0.0000180	<2.0	0.0295	0.770	<0.000010	<0.00010	<0.010
L2328474-2	WQ5	Surface		8/12/2019	<0.000050	5.89	<0.000010	2.30	0.0378	<0.50	<0.000010	<0.00010	<0.010

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Selenium (Se)-Total	Silicon (Si)-Total	Silver (Ag)-Total	Sodium (Na)-Total	Strontium (Sr)-Total	Sulfur (S)-Total	Thallium (Tl)-Total	Tin (Sn)-Total	Titanium (Ti)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2385426-2	WQ5	Surface		11/18/2019	0.0000740	5.77	0.0000140	<2.0	0.0263	0.800	<0.000010	<0.00010	<0.010
VA20A1830-001	WQ5	Surface		2/12/2020	<0.000050	7.51	<0.000010	3.11	0.0558	<0.50	<0.000010	<0.00010	0.000960
VA20A6574-002	WQ5	Surface		5/14/2020	<0.000050	4.57	0.0000100	1.57	0.0242	<0.50	<0.000010	<0.00010	0.00465
VA20B2692-001	WQ5	Surface		8/12/2020	<0.000050	6.51	<0.000010	3.34	0.0665	<0.50	<0.000010	<0.00010	0.000920
VA20C1166-002	WQ5	Surface		11/17/2020	<0.000050	6.11	<0.000010	2.28	0.0450	<0.50	<0.000010	<0.00010	0.00381
	WQ6	Surface		5/17/2011	< 0.0006	4.72	< 0.00005	1.50	0.0339	-	< 0.00005	< 0.0001	0.0103
	WQ6	Surface		5/24/2011	< 0.0006	4.34	< 0.00005	1.30	0.0270	-	< 0.00005	< 0.0001	0.00550
	WQ6	Surface		5/30/2011	< 0.0006	4.75	< 0.00005	1.30	0.0249	-	< 0.00005	< 0.0001	0.00340
	WQ6	Surface		6/6/2011	< 0.0006	4.20	< 0.00005	1.30	0.0243	-	0.0000800	< 0.0001	0.00220
	WQ6	Surface		6/13/2011	< 0.0006	4.51	< 0.00005	1.50	0.0258	-	< 0.00005	< 0.0001	0.00180
	WQ6	Surface		7/18/2011	< 0.0006	5.49	< 0.00005	1.70	0.0347	-	< 0.00005	< 0.0001	0.00190
	WQ6	Surface	Dup	8/15/2011	< 0.0006	5.32	< 0.00005	2.00	0.0386	-	< 0.00005	< 0.0001	0.00100
	WQ6	Surface		8/15/2011	< 0.0006	5.20	< 0.00005	2.00	0.0388	-	< 0.00005	< 0.0001	0.00130
	WQ6	Surface		9/19/2011	< 0.0006	5.40	< 0.00005	2.40	0.0464	-	< 0.00005	< 0.0001	0.000600
	WQ6	Surface		10/17/2011	< 0.0006	5.65	< 0.00005	2.10	0.0412	-	< 0.00005	< 0.0001	0.00100
	WQ6	Surface		11/14/2011	< 0.0006	5.36	< 0.00005	2.10	0.0449	-	< 0.00005	< 0.0001	0.00120
	WQ6	Surface		4/17/2012	< 0.0006	5.86	< 0.00005	2.50	0.0512	-	< 0.00005	< 0.0001	0.00630
	WQ6	Surface		5/15/2012	< 0.0006	4.35	< 0.00005	1.50	0.0336	-	< 0.00005	< 0.0001	0.00610
	WQ6	Surface		5/23/2012	< 0.0006	4.53	< 0.00005	1.50	0.0314	-	< 0.00005	< 0.0001	0.00380
	WQ6	Surface		5/28/2012	< 0.0006	4.56	< 0.00005	1.60	0.0289	-	< 0.00005	< 0.0001	0.00230
	WQ6	Surface		6/4/2012	< 0.0006	4.72	< 0.00005	1.60	0.0288	-	< 0.00005	< 0.0001	0.00140
	WQ6	Surface		6/11/2012	< 0.0006	4.92	< 0.00005	1.60	0.0286	-	< 0.00005	< 0.0001	0.00130
	WQ6	Surface		6/18/2012	< 0.0006	4.69	< 0.00005	1.60	0.0271	-	< 0.00005	< 0.0001	0.00130
	WQ6	Surface		7/16/2012	< 0.0006	5.45	< 0.00005	2.00	0.0377	-	< 0.00005	< 0.0001	0.000900
	WQ6	Surface		8/13/2012	< 0.0006	5.87	< 0.00005	2.20	0.0468	-	< 0.00005	< 0.0001	0.00120
	WQ6	Surface		9/17/2012	< 0.0006	5.90	< 0.00005	2.30	0.0488	-	< 0.00005	< 0.0001	0.000900
	WQ6	Surface		10/16/2012	< 0.0006	5.53	< 0.00005	2.60	0.0511	-	< 0.00005	< 0.0001	0.00110
	WQ6	Surface		11/12/2012	< 0.0006	6.10	< 0.00005	2.50	0.0501	-	< 0.00005	< 0.0001	0.000900
	WQ6	Surface		12/10/2012	< 0.0006	6.00	< 0.00005	2.80	0.0523	-	< 0.00005	< 0.0001	0.000600
	WQ6	Surface		1/15/2013	< 0.0006	6.26	< 0.00005	2.70	0.0511	-	< 0.00005	< 0.0001	0.000800
	WQ6	Surface		2/13/2013	< 0.0006	6.26	< 0.00005	2.60	0.0514	-	< 0.00005	< 0.0001	0.000500
	WQ6	Surface		3/12/2013	< 0.0006	4.81	< 0.00005	2.90	0.0565	-	< 0.00005	< 0.0001	0.000500
	WQ6	Surface		4/16/2013	< 0.0001	5.10	< 0.00005	2.20	0.0477	-	< 0.00005	< 0.0001	0.00150
	WQ6	Surface		5/14/2013	< 0.0001	3.64	< 0.00005	1.40	0.0281	-	< 0.00005	< 0.0001	0.00240
	WQ6	Surface		5/21/2013	< 0.0001	4.08	< 0.00005	1.60	0.0326	-	< 0.00005	< 0.0001	0.00200
	WQ6	Surface		5/28/2013	< 0.0001	3.94	< 0.00005	1.70	0.0296	-	< 0.00005	< 0.0001	0.00230
	WQ6	Surface		6/4/2013	< 0.0001	4.32	< 0.00005	1.60	0.0299	-	< 0.00005	< 0.0001	0.00170
	WQ6	Surface		6/11/2013	< 0.0001	4.02	< 0.00005	1.60	0.0327	-	< 0.00005	< 0.0001	0.00180
	WQ6	Surface		6/18/2013	< 0.0001	4.36	< 0.00005	1.60	0.0312	-	< 0.00005	< 0.0001	0.00180
	WQ7	Surface		4/19/2011	< 0.0006	6.66	< 0.00005	3.90	0.109	-	< 0.00005	< 0.0001	0.000500
	WQ7	Surface		5/17/2011	< 0.0006	6.05	< 0.00005	1.80	0.0425	-	< 0.00005	< 0.0001	0.0411
	WQ7	Surface		5/24/2011	< 0.0006	5.78	< 0.00005	1.80	0.0357	-	< 0.00005	< 0.0001	0.0364
	WQ7	Surface		5/30/2011	< 0.0006	5.54	< 0.00005	1.70	0.0343	-	< 0.00005	< 0.0001	0.0233
	WQ7	Surface		6/6/2011	< 0.0006	4.95	< 0.00005	1.50	0.0296	-	< 0.00005	< 0.0001	0.0236

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Selenium (Se)-Total	Silicon (Si)-Total	Silver (Ag)-Total	Sodium (Na)-Total	Strontium (Sr)-Total	Sulfur (S)-Total	Thallium (Tl)-Total	Tin (Sn)-Total	Titanium (Ti)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ7	Surface		6/13/2011	< 0.0006	4.78	< 0.00005	1.60	0.0329	-	< 0.00005	< 0.0001	0.00730
	WQ7	Surface		7/18/2011	< 0.0006	6.25	< 0.00005	2.30	0.0505	-	< 0.00005	< 0.0001	0.00730
	WQ7	Surface		8/15/2011	< 0.0006	6.02	< 0.00005	2.80	0.0695	-	< 0.00005	< 0.0001	0.00230
	WQ7	Surface	Dup	9/19/2011	< 0.0006	6.33	< 0.00005	3.40	0.0902	-	< 0.00005	< 0.0001	0.000800
	WQ7	Surface		9/19/2011	< 0.0006	6.25	< 0.00005	3.30	0.0883	-	< 0.00005	< 0.0001	0.000600
	WQ7	Surface	Dup	10/17/2011	< 0.0006	6.30	< 0.00005	3.00	0.0717	-	< 0.00005	< 0.0001	0.000600
	WQ7	Surface		10/17/2011	< 0.0006	6.30	< 0.00005	2.90	0.0713	-	< 0.00005	< 0.0001	0.000800
	WQ7	Surface		11/14/2011	< 0.0006	6.10	< 0.00005	3.10	0.0775	-	< 0.00005	< 0.0001	0.00130
	WQ7	Surface	Dup	12/13/2011	< 0.0006	6.47	< 0.00005	3.30	0.0880	-	< 0.00005	< 0.0001	0.00210
	WQ7	Surface		12/13/2011	< 0.0006	6.58	< 0.00005	3.40	0.0901	-	< 0.00005	< 0.0001	0.00980
	WQ7	Surface		1/12/2012	< 0.0006	7.74	< 0.00005	3.40	0.0957	-	< 0.00005	< 0.0001	0.000900
	WQ7	Surface	Dup	2/13/2012	< 0.0006	6.51	< 0.00005	3.50	0.103	-	< 0.00005	< 0.0001	0.00120
	WQ7	Surface		2/13/2012	< 0.0006	7.08	< 0.00005	3.80	0.110	-	< 0.00005	< 0.0001	0.00230
	WQ7	Surface		3/12/2012	< 0.0006	7.29	< 0.00005	3.70	0.101	-	< 0.00005	< 0.0001	0.000700
	WQ7	Surface	Dup	4/17/2012	< 0.0006	5.57	< 0.00005	3.20	0.0788	-	< 0.00005	< 0.0001	0.00320
	WQ7	Surface		4/17/2012	< 0.0006	5.30	< 0.00005	3.10	0.0800	-	< 0.00005	< 0.0001	0.00310
	WQ7	Surface		5/15/2012	< 0.0006	5.02	< 0.00005	2.00	0.0399	-	< 0.00005	< 0.0001	0.0129
	WQ7	Surface		5/23/2012	< 0.0006	4.95	< 0.00005	2.00	0.0403	-	< 0.00005	< 0.0001	0.0200
	WQ7	Surface	Dup	5/28/2012	< 0.0006	4.65	< 0.00005	1.80	0.0338	-	< 0.00005	< 0.0001	0.00610
	WQ7	Surface		5/28/2012	< 0.0006	4.69	< 0.00005	1.80	0.0344	-	< 0.00005	< 0.0001	0.00450
	WQ7	Surface		6/4/2012	< 0.0006	4.83	< 0.00005	1.90	0.0381	-	< 0.00005	< 0.0001	0.00450
	WQ7	Surface		6/11/2012	< 0.0006	5.02	< 0.00005	1.80	0.0361	-	< 0.00005	< 0.0001	0.00450
	WQ7	Surface		6/18/2012	0.000900	5.05	< 0.00005	107	0.0467	-	< 0.00005	0.00210	0.00390
	WQ7	Surface	Dup	7/16/2012	< 0.0006	6.54	< 0.00005	2.70	0.0640	-	< 0.00005	< 0.0001	0.00150
	WQ7	Surface		7/16/2012	< 0.0006	5.91	< 0.00005	2.70	0.0645	-	< 0.00005	< 0.0001	0.00120
	WQ7	Surface	Dup	8/13/2012	< 0.0006	6.91	< 0.00005	3.20	0.0807	-	< 0.00005	< 0.0001	0.00110
	WQ7	Surface		8/13/2012	< 0.0006	6.70	< 0.00005	3.20	0.0804	-	< 0.00005	< 0.0001	0.00110
	WQ7	Surface		9/17/2012	< 0.0006	6.40	< 0.00005	3.30	0.0908	-	< 0.00005	< 0.0001	0.000700
	WQ7	Surface		10/16/2012	< 0.0006	6.30	< 0.00005	3.80	0.0998	-	< 0.00005	< 0.0001	0.000600
	WQ7	Surface	Dup	11/12/2012	< 0.0006	6.77	< 0.00005	3.70	0.0910	-	< 0.00005	< 0.0001	0.000600
	WQ7	Surface		11/12/2012	< 0.0006	6.43	< 0.00005	3.60	0.0889	-	< 0.00005	< 0.0001	0.000800
	WQ7	Surface		12/10/2012	< 0.0006	6.48	< 0.00005	3.90	0.0975	-	< 0.00005	< 0.0001	0.000600
	WQ7	Surface	Dup	1/15/2013	< 0.0006	6.68	< 0.00005	4.00	0.107	-	< 0.00005	< 0.0001	0.00180
	WQ7	Surface		1/15/2013	< 0.0006	6.38	< 0.00005	4.10	0.107	-	< 0.00005	< 0.0001	0.00340
	WQ7	Surface	Dup	2/13/2013	< 0.0006	6.17	< 0.00005	4.00	0.0989	-	< 0.00005	< 0.0001	0.000600
	WQ7	Surface		2/13/2013	< 0.0006	6.28	< 0.00005	4.00	0.0992	-	< 0.00005	< 0.0001	0.00230
	WQ7	Surface		3/12/2013	< 0.0006	5.68	< 0.00005	4.20	0.112	-	< 0.00005	< 0.0001	0.000400
	WQ7	Surface	Dup	4/16/2013	< 0.0001	5.76	< 0.00005	3.40	0.0886	-	< 0.00005	< 0.0001	0.000800
	WQ7	Surface		4/16/2013	< 0.0001	5.55	< 0.00005	3.60	0.0889	-	< 0.00005	< 0.0001	0.00110
	WQ7	Surface		5/14/2013	< 0.0001	3.93	< 0.00005	1.60	0.0336	-	< 0.00005	< 0.0001	0.0104
	WQ7	Surface		5/21/2013	< 0.0001	4.39	< 0.00005	1.90	0.0427	-	< 0.00005	< 0.0001	0.00510
	WQ7	Surface		5/28/2013	< 0.0001	4.18	< 0.00005	2.20	0.0368	-	< 0.00005	< 0.0001	0.00910
	WQ7	Surface	Dup	6/4/2013	< 0.0001	4.66	< 0.00005	2.00	0.0394	-	< 0.00005	< 0.0001	0.00360
	WQ7	Surface		6/4/2013	< 0.0001	4.74	< 0.00005	2.10	0.0390	-	< 0.00005	< 0.0001	0.00350

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Selenium (Se)-Total	Silicon (Si)-Total	Silver (Ag)-Total	Sodium (Na)-Total	Strontium (Sr)-Total	Sulfur (S)-Total	Thallium (Tl)-Total	Tin (Sn)-Total	Titanium (Ti)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ7	Surface		6/11/2013	< 0.0001	4.40	< 0.00005	2.10	0.0490	-	< 0.00005	< 0.0001	0.00280
	WQ7	Surface	Dup	6/18/2013	< 0.0001	4.68	< 0.00005	2.30	0.0486	-	< 0.00005	< 0.0001	0.00310
	WQ7	Surface		6/18/2013	< 0.0001	4.82	< 0.00005	2.30	0.0488	-	< 0.00005	< 0.0001	0.00260
	WQ7	Surface		4/13/2014	< 0.0001	5.73	< 0.00005	3.20	0.0862	-	< 0.00005	< 0.0001	0.0219
	WQ7	Surface		7/2/2014	< 0.0001	5.77	< 0.00005	2.80	0.0648	-	< 0.00005	< 0.0001	0.00150
	WQ7	Surface		9/24/2014	< 0.0001	5.82	< 0.00005	4.10	0.110	-	< 0.00005	< 0.0001	0.000800
	WQ7	Surface		12/9/2014	< 0.0001	6.31	< 0.00005	3.90	0.0998	-	< 0.00005	< 0.0001	0.00100
L1812856-9	WQ7	Surface		8/10/2016	0.0000670	6.50	< 0.000010	3.00	0.0713	-	< 0.000010	< 0.00010	< 0.010
L1815654-9	WQ7	Surface		8/16/2016	< 0.000050	6.47	< 0.000010	3.20	0.0768	-	< 0.000010	< 0.00010	< 0.010
L1819041-2	WQ7	Surface		8/23/2016	0.0000620	6.43	< 0.000010	3.30	0.0776	-	< 0.000010	< 0.00010	< 0.010
L1823224-2	WQ7	Surface		8/31/2016	0.0000530	6.21	< 0.000010	3.20	0.0782	-	< 0.000010	< 0.00010	< 0.010
L1826303-7	WQ7	Surface		9/7/2016	< 0.000050	5.91	< 0.000010	2.80	0.0752	-	< 0.000010	< 0.00010	< 0.010
L1913531-3	WQ7	Surface		4/12/2017	0.0000540	6.16	< 0.000010	3.80	0.0911	-	< 0.000010	< 0.00010	< 0.010
L1926080-8	WQ7	Surface	Dup	5/11/2017	0.0000710	5.57	0.0000130	2.30	0.0451	-	< 0.000010	< 0.00010	0.0140
L1926080-4	WQ7	Surface		5/11/2017	0.0000610	5.25	0.0000120	2.30	0.0439	-	< 0.000010	< 0.00010	0.0140
L1939712-7	WQ7	Surface		6/7/2017	< 0.000050	5.21	< 0.000010	< 2.0	0.0387	-	< 0.000010	< 0.00010	< 0.010
L1962414-3	WQ7	Surface		7/19/2017	0.0000590	5.86	< 0.000010	3.10	0.0713	-	< 0.000010	< 0.00010	< 0.010
L1984944-5	WQ7	Surface		8/30/2017	0.0000530	6.44	< 0.000010	3.80	0.101	0.820	< 0.000010	< 0.00010	< 0.010
L1988832-4	WQ7	Surface		9/9/2017	< 0.000050	6.16	< 0.000010	3.90	0.101	0.630	< 0.000010	< 0.00010	< 0.010
L2009845-2	WQ7	Surface		10/17/2017	0.0000900	6.55	< 0.000010	3.30	0.0733	1.06	< 0.000010	< 0.00010	< 0.011
L2020333-6	WQ7	Surface	Dup	11/7/2017	< 0.000050	6.28	< 0.000010	2.60	0.0684	< 0.50	< 0.000010	< 0.00010	< 0.010
L2020333-2	WQ7	Surface		11/7/2017	< 0.000050	6.52	< 0.000010	2.50	0.0672	0.600	< 0.000010	< 0.00010	< 0.010
L2034610-2	WQ7	Surface		12/11/2017	0.0000510	6.02	< 0.000010	3.00	0.0685	0.630	< 0.000010	< 0.00010	< 0.010
L2049678-1	WQ7	Surface		1/24/2018	< 0.000050	6.26	< 0.000010	3.20	0.0828	0.850	< 0.000010	< 0.00010	< 0.010
L2062480-2	WQ7	Surface		2/28/2018	0.0000580	6.13	< 0.000010	3.40	0.0890	0.570	< 0.000010	< 0.00010	< 0.010
L2074294-1	WQ7	Surface		3/28/2018	0.0000500	6.11	< 0.000010	3.50	0.0940	1.28	< 0.000010	< 0.00010	< 0.010
L2081503-1	WQ7	Surface		4/17/2018	< 0.000050	6.44	< 0.000010	3.70	0.0951	1.46	< 0.000010	< 0.00010	< 0.010
L2097084-8	WQ7	Surface	Dup	5/16/2018	0.0000810	6.08	0.0000170	< 2.0	0.0299	< 0.50	0.0000130	< 0.00010	0.0470
L2097084-1	WQ7	Surface		5/16/2018	< 0.000050	5.93	0.0000170	< 2.0	0.0294	< 0.50	0.0000110	< 0.00010	0.0430
L2104479-1	WQ7	Surface		5/30/2018	0.0000580	4.56	< 0.000010	2.00	0.0381	< 0.50	< 0.000010	< 0.00010	< 0.010
L2132128-7	WQ7	Surface	Dup	7/17/2018	0.0000910	6.25	< 0.000010	2.90	0.0740	< 0.50	< 0.000010	< 0.00010	< 0.010
L2132128-1	WQ7	Surface		7/17/2018	0.0000830	6.29	< 0.000010	3.00	0.0740	< 0.50	< 0.000010	< 0.00010	< 0.010
L2144782-2	WQ7	Surface		8/9/2018	0.0000530	6.14	< 0.000010	3.30	0.0798	0.550	< 0.000010	< 0.00010	< 0.010
L2164448-4	WQ7	Surface	Dup	9/12/2018	< 0.000050	5.96	< 0.000010	3.80	0.0927	< 0.50	< 0.000010	< 0.00010	< 0.010
L2164448-3	WQ7	Surface		9/12/2018	< 0.000050	6.04	< 0.000010	3.70	0.0976	< 0.50	< 0.000010	< 0.00010	< 0.010
L2187638-4	WQ7	Surface	Dup	10/24/2018	0.0000560	6.46	< 0.000010	3.10	0.0716	0.780	< 0.000010	< 0.00010	< 0.010
L2187638-3	WQ7	Surface		10/24/2018	< 0.000050	6.25	< 0.000010	3.00	0.0709	0.640	< 0.000010	< 0.00010	< 0.010
L2203408-2	WQ7	Surface		11/27/2018	< 0.000050	6.37	< 0.000010	2.90	0.0600	< 0.50	< 0.000010	< 0.00010	< 0.010
L2213684-1	WQ7	Surface		12/19/2018	< 0.000050	6.41	< 0.000010	3.10	0.0746	0.960	< 0.000010	< 0.00010	< 0.010
L2227101-6	WQ7	Surface	Dup	1/29/2019	< 0.000050	6.04	< 0.000010	3.20	0.0818	0.620	< 0.000010	< 0.00010	< 0.010
L2227101-1	WQ7	Surface		1/29/2019	0.0000630	6.19	< 0.000010	3.50	0.0882	0.720	< 0.000010	< 0.00010	< 0.010
L2232050-4	WQ7	Surface		2/11/2019	< 0.000050	6.26	< 0.000010	3.40	0.0876	0.920	< 0.000010	< 0.00010	< 0.010
L2245144-4	WQ7	Surface		3/14/2019	< 0.000050	6.47	< 0.000010	3.60	0.0937	0.740	< 0.000010	< 0.00010	< 0.010
L2256054-1	WQ7	Surface		4/9/2019	< 0.000050	6.12	< 0.000010	3.30	0.0860	0.760	< 0.000010	< 0.00010	< 0.010

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Selenium (Se)-Total	Silicon (Si)-Total	Silver (Ag)-Total	Sodium (Na)-Total	Strontium (Sr)-Total	Sulfur (S)-Total	Thallium (Tl)-Total	Tin (Sn)-Total	Titanium (Ti)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2269368-6	WQ7	Surface	Dup	5/4/2019	0.0000570	5.35	<0.000010	2.20	0.0444	<0.50	<0.000010	<0.000010	0.0110
L2269368-1	WQ7	Surface		5/4/2019	0.0000610	5.38	<0.000010	2.10	0.0446	0.510	<0.000010	<0.000010	<0.010
L2277964-4	WQ7	Surface		5/21/2019	0.000102	6.44	0.0000220	<2.0	0.0337	<0.50	0.0000120	<0.000010	0.0610
L2282191-2	WQ7	Surface		5/28/2019	0.0000600	4.91	<0.000010	<2.0	0.0348	<0.50	<0.000010	<0.000010	<0.010
L2282975-1	WQ7	Surface		5/29/2019	0.0000730	5.91	<0.000010	2.30	0.0459	<0.50	<0.000010	<0.000010	<0.010
L2286702-5	WQ7	Surface	Dup	6/4/2019	0.0000500	5.56	<0.000010	2.30	0.0505	<0.50	<0.000010	<0.000010	<0.010
L2286702-1	WQ7	Surface		6/4/2019	<0.000050	5.38	<0.000010	2.30	0.0491	<0.50	<0.000010	<0.000010	<0.010
L2313851-2	WQ7	Surface		7/18/2019	0.0000770	5.95	<0.000010	2.30	0.0477	<0.50	<0.000010	<0.000010	<0.010
L2328474-3	WQ7	Surface		8/12/2019	0.0000520	6.38	<0.000010	2.30	0.0524	<0.50	<0.000010	<0.000010	<0.010
L2349445-1	WQ7	Surface		9/16/2019	0.0000510	6.41	<0.000010	3.20	0.0760	<0.50	<0.000010	<0.000010	<0.010
L2371052-1	WQ7	Surface		10/22/2019	0.0000610	5.94	<0.000010	2.80	0.0557	<0.50	<0.000010	0.00139	<0.010
L2388381-1	WQ7	Surface		11/25/2019	0.0000690	6.51	<0.000010	2.40	0.0486	<0.50	<0.000010	<0.000010	<0.010
VA19A0791-001	WQ7	Surface		12/17/2019	0.0000690	6.64	<0.000010	2.86	0.0660	<0.50	<0.000010	<0.000010	0.00140
VA20A0960-001	WQ7	Surface		1/27/2020	0.0000590	6.16	<0.000010	3.26	0.0769	0.520	<0.000010	<0.000010	0.000450
VA20A2126-004	WQ7	Surface		2/19/2020	0.0000550	6.60	<0.000010	3.71	0.0854	0.730	<0.000010	<0.000010	0.00101
VA20A3691-002	WQ7	Surface		3/18/2020	<0.000050	6.87	<0.000010	3.74	0.0915	0.520	<0.000010	<0.000010	0.000300
VA20A4555-002	WQ7	Surface		4/7/2020	0.0000640	6.67	<0.000010	3.76	0.0935	0.930	<0.000010	<0.000010	<0.00030
VA20A6218-002	WQ7	Surface		5/7/2020	<0.000050	5.32	<0.000010	1.83	0.0421	<0.50	<0.000010	<0.000010	0.00454
VA20A6503-003	WQ7	Surface		5/13/2020	<0.000050	4.88	<0.000010	1.79	0.0403	<0.50	<0.000010	<0.000010	0.00759
VA20A6869-001	WQ7	Surface		5/20/2020	0.0000560	4.74	0.0000140	1.55	0.0317	<0.50	<0.000010	<0.000010	0.00691
VA20A7367-001	WQ7	Surface		5/28/2020	<0.000050	5.02	<0.000010	1.86	0.0358	<0.50	<0.000010	<0.000010	0.00333
VA20A7672-004	WQ7	Surface		6/2/2020	0.0000830	4.89	<0.000010	1.85	0.0378	<0.50	<0.000010	<0.000010	0.00198
VA20A9918-005	WQ7	Surface	Dup	7/6/2020	0.0000700	5.77	<0.000010	2.36	0.0509	<0.50	<0.000010	<0.000010	0.00195
VA20A9918-001	WQ7	Surface		7/6/2020	<0.000050	5.65	<0.000010	2.34	0.0523	<0.50	<0.000010	<0.000010	0.00173
VA20B2156-004	WQ7	Surface		8/5/2020	<0.000050	6.09	<0.000010	3.11	0.0732	<0.50	<0.000010	<0.000010	0.000760
VA20B2542-005	WQ7	Surface	Dup	8/11/2020	<0.000050	6.48	<0.000010	3.43	0.0762	<0.50	<0.000010	<0.000010	0.00133
VA20B2542-003	WQ7	Surface		8/11/2020	0.0000630	6.40	<0.000010	3.47	0.0782	<0.50	<0.000010	<0.000010	0.00125
VA20B3218-001	WQ7	Surface		8/18/2020	0.0000850	6.73	<0.000010	3.30	0.0803	<0.50	<0.000010	<0.000010	0.00162
VA20B3609-002	WQ7	Surface		8/24/2020	0.0000670	5.82	<0.000010	3.04	0.0726	0.580	<0.000010	<0.000010	0.00118
VA20B4443-003	WQ7	Surface		9/2/2020	<0.000050	6.12	<0.000010	3.10	0.0732	<0.50	<0.000010	<0.000010	0.000490
VA20B7624-001	WQ7	Surface		10/6/2020	<0.000050	6.21	<0.000010	3.43	0.0831	<0.50	<0.000010	<0.000010	0.000840
VA20C0298-001	WQ7	Surface		11/5/2020	0.0000580	5.74	<0.000010	1.98	0.0434	<0.50	<0.000010	<0.000010	0.00775
	WQ8	Surface		4/19/2011	< 0.0006	4.42	< 0.00005	3.70	0.110	-	< 0.00005	< 0.0001	0.000200
	WQ8	Surface		5/17/2011	< 0.0006	3.89	< 0.00005	3.30	0.0923	-	< 0.00005	< 0.0001	0.000500
	WQ8	Surface	Dup	5/24/2011	< 0.0006	3.87	< 0.00005	3.40	0.0933	-	< 0.00005	< 0.0001	0.00160
	WQ8	Surface		5/24/2011	< 0.0006	3.80	< 0.00005	3.40	0.0920	-	< 0.00005	< 0.0001	0.00120
	WQ8	Surface		5/30/2011	< 0.0006	5.68	< 0.00005	4.20	0.0830	-	< 0.00005	< 0.0001	0.000800
	WQ8	Surface		6/6/2011	< 0.0006	4.03	< 0.00005	3.20	0.0917	-	< 0.00005	< 0.0001	0.00190
	WQ8	Surface	Dup	6/13/2011	< 0.0006	4.01	< 0.00005	3.20	0.0899	-	< 0.00005	< 0.0001	0.00240
	WQ8	Surface		6/13/2011	< 0.0006	3.97	< 0.00005	3.20	0.0885	-	< 0.00005	< 0.0001	0.00210
	WQ8	Surface		7/18/2011	< 0.0006	4.19	< 0.00005	3.20	0.0915	-	< 0.00005	< 0.0001	0.00390
	WQ8	Surface		8/15/2011	< 0.0006	3.38	< 0.00005	3.30	0.0924	-	< 0.00005	< 0.0001	0.000400
	WQ8	Surface		9/19/2011	< 0.0006	3.10	< 0.00005	3.30	0.0931	-	< 0.00005	< 0.0001	0.000600
	WQ8	Surface		10/17/2011	< 0.0006	3.77	< 0.00005	3.40	0.0941	-	< 0.00005	< 0.0001	0.000400

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					Selenium (Se)-Total	Silicon (Si)-Total	Silver (Ag)-Total	Sodium (Na)-Total	Strontium (Sr)-Total	Sulfur (S)-Total	Thallium (Tl)-Total	Tin (Sn)-Total	Titanium (Ti)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ8	Surface		11/14/2011	< 0.0006	4.51	< 0.00005	3.30	0.0957	-	< 0.00005	< 0.0001	0.000200
	WQ8	Surface		12/12/2011	< 0.0006	5.14	< 0.00005	3.70	0.107	-	< 0.00005	< 0.0001	0.00730
	WQ8	Surface		1/12/2012	< 0.0006	5.51	< 0.00005	3.60	0.104	-	< 0.00005	< 0.0001	0.000400
	WQ8	Surface		2/13/2012	< 0.0006	4.93	< 0.00005	3.70	0.109	-	< 0.00005	< 0.0001	0.000300
	WQ8	Surface		3/12/2012	< 0.0006	5.61	< 0.00005	3.80	0.106	-	< 0.00005	< 0.0001	0.00140
	WQ8	Surface		4/16/2012	< 0.0006	4.42	< 0.00005	3.40	0.0890	-	< 0.00005	< 0.0001	0.000500
	WQ8	Surface		5/14/2012	< 0.0006	4.66	< 0.00005	3.70	0.103	-	< 0.00005	< 0.0001	0.000400
	WQ8	Surface		5/22/2012	< 0.0006	4.38	< 0.00005	3.60	0.0959	-	< 0.00005	< 0.0001	0.00110
	WQ8	Surface		5/28/2012	< 0.0006	4.70	< 0.00005	3.60	0.0965	-	< 0.00005	< 0.0001	0.000600
	WQ8	Surface		6/4/2012	< 0.0006	4.32	< 0.00005	3.40	0.0969	-	< 0.00005	< 0.0001	0.000600
	WQ8	Surface		6/11/2012	< 0.0006	4.49	< 0.00005	3.40	0.0965	-	< 0.00005	< 0.0001	0.000300
	WQ8	Surface		6/18/2012	< 0.0006	4.01	< 0.00005	3.40	0.0980	-	< 0.00005	< 0.0001	0.000400
	WQ8	Surface		7/16/2012	< 0.0006	3.78	< 0.00005	3.50	0.0957	-	< 0.00005	< 0.0001	0.000500
	WQ8	Surface		8/13/2012	< 0.0006	3.18	< 0.00005	3.60	0.104	-	< 0.00005	< 0.0001	0.000300
	WQ8	Surface		9/17/2012	< 0.0006	3.16	< 0.00005	3.40	0.0957	-	< 0.00005	< 0.0001	0.00250
	WQ8	Surface		10/15/2012	< 0.0006	2.89	< 0.00005	3.80	0.102	-	< 0.00005	< 0.0001	0.000500
	WQ8	Surface		11/13/2012	< 0.0006	4.64	< 0.00005	3.60	0.0968	-	< 0.00005	< 0.0001	0.00630
	WQ8	Surface		1/13/2013	< 0.0006	5.28	< 0.00005	4.00	0.108	-	< 0.00005	< 0.0001	0.00110
	WQ8	Surface		2/12/2013	< 0.0006	5.27	< 0.00005	4.10	0.106	-	< 0.00005	< 0.0001	< 0.0002
	WQ8	Surface	Dup	3/11/2013	< 0.0006	4.16	< 0.00005	4.10	0.110	-	< 0.00005	< 0.0001	< 0.0002
	WQ8	Surface		3/11/2013	< 0.0006	4.15	< 0.00005	4.10	0.107	-	< 0.00005	< 0.0001	< 0.0002
	WQ8	Surface		4/15/2013	< 0.0001	3.24	< 0.00005	2.60	0.0799	-	< 0.00005	< 0.0001	0.000600
	WQ8	Surface		5/13/2013	< 0.0001	3.85	< 0.00005	3.30	0.101	-	< 0.00005	< 0.0001	0.000500
	WQ8	Surface		5/22/2013	< 0.0001	6.75	< 0.00005	4.20	0.141	-	< 0.00005	< 0.0001	0.00120
	WQ8	Surface		5/27/2013	< 0.0001	3.67	< 0.00005	3.90	0.0970	-	< 0.00005	< 0.0001	0.000900
	WQ8	Surface		6/6/2013	< 0.0001	3.66	< 0.00005	3.50	0.0919	-	< 0.00005	< 0.0001	0.000300
	WQ8	Surface		6/10/2013	< 0.0001	3.32	< 0.00005	3.30	0.0984	-	< 0.00005	< 0.0001	0.00160
	WQ8	Surface		6/17/2013	< 0.0001	3.19	< 0.00005	3.40	0.0889	-	< 0.00005	< 0.0001	0.000800
	WQ8	Surface		4/13/2014	< 0.0001	3.65	< 0.00005	3.00	0.0902	-	< 0.00005	< 0.0001	0.000400
	WQ8	Surface		7/2/2014	< 0.0001	3.19	< 0.00005	3.40	0.0907	-	< 0.00005	< 0.0001	0.000300
	WQ8	Surface		9/24/2014	< 0.0001	2.29	< 0.00005	3.60	0.0994	-	< 0.00005	< 0.0001	0.00140
	WQ8	Surface	Dup	12/9/2014	< 0.0001	4.75	< 0.00005	4.00	0.105	-	< 0.00005	< 0.0001	< 0.0002
	WQ8	Surface		12/9/2014	< 0.0001	5.00	< 0.00005	4.00	0.105	-	< 0.00005	< 0.0001	< 0.0002
L1913531-6	WQ8	Surface		4/12/2017	0.0000640	3.45	< 0.000010	3.30	0.0849	-	< 0.000010	< 0.00010	< 0.010
L1926080-3	WQ8	Surface		5/11/2017	0.0000510	3.90	< 0.000010	4.10	0.101	-	< 0.000010	< 0.00010	< 0.010
L1939712-8	WQ8	Surface		6/7/2017	0.0000650	2.91	< 0.000010	3.40	0.0935	-	< 0.000010	< 0.00010	< 0.010
L1962414-4	WQ8	Surface		7/19/2017	0.0000810	1.56	< 0.000010	3.50	0.0934	-	< 0.000010	< 0.00010	< 0.010
L1984944-6	WQ8	Surface		8/30/2017	0.0000620	1.21	< 0.000010	3.60	0.100	1.45	< 0.000010	< 0.00010	< 0.010
L1987355-1	WQ8	Surface		9/5/2017	0.0000590	1.14	< 0.000010	3.80	0.0979	1.43	< 0.000010	< 0.00010	< 0.010
L2009845-4	WQ8	Surface		10/17/2017	0.0000850	2.17	< 0.000010	3.70	0.0965	1.51	< 0.000010	< 0.00010	< 0.010
L2020333-4	WQ8	Surface		11/7/2017	0.0000630	3.83	< 0.000010	3.40	0.113	1.17	< 0.000010	< 0.00010	< 0.010
L2034610-1	WQ8	Surface		12/11/2017	< 0.000050	3.78	< 0.000010	3.80	0.111	1.23	< 0.000010	< 0.00010	< 0.010
L2049224-5	WQ8	Surface	Dup	1/23/2018	0.0000980	4.40	< 0.000010	4.00	0.106	1.50	< 0.000010	< 0.00010	< 0.010
L2049224-1	WQ8	Surface		1/23/2018	0.0000860	4.31	< 0.000010	4.00	0.106	1.69	< 0.000010	< 0.00010	< 0.010

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Selenium (Se)-Total	Silicon (Si)-Total	Silver (Ag)-Total	Sodium (Na)-Total	Strontium (Sr)-Total	Sulfur (S)-Total	Thallium (Tl)-Total	Tin (Sn)-Total	Titanium (Ti)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2057954-1	WQ8	Surface		2/15/2018	0.0000630	3.82	<0.000010	3.40	0.0976	1.10	<0.000010	<0.000010	<0.010
L2073898-2	WQ8	Surface		3/27/2018	0.0000820	3.62	0.000255	3.50	0.0970	1.42	<0.000010	<0.000010	<0.010
L2081503-2	WQ8	Surface		4/17/2018	0.0000970	3.93	<0.000010	3.60	0.104	1.79	<0.000010	<0.000010	<0.010
L2096380-1	WQ8	Surface		5/15/2018	<0.000050	3.77	<0.000010	3.40	0.0927	1.10	<0.000010	<0.000010	<0.010
L2104479-2	WQ8	Surface		5/30/2018	0.0000630	3.33	<0.000010	3.40	0.0874	1.07	<0.000010	<0.000010	<0.010
L2132128-2	WQ8	Surface		7/17/2018	0.0000910	3.03	<0.000010	3.30	0.0864	1.11	<0.000010	<0.000010	<0.010
L2144782-1	WQ8	Surface		8/9/2018	0.0000510	2.74	<0.000010	3.30	0.0929	1.30	<0.000010	<0.000010	<0.010
L2164448-2	WQ8	Surface		9/12/2018	<0.000050	2.83	<0.000010	3.50	0.0969	0.690	<0.000010	<0.000010	<0.010
L2187638-2	WQ8	Surface		10/24/2018	<0.000050	3.69	<0.000010	3.50	0.0960	1.38	<0.000010	<0.000010	<0.010
L2203408-3	WQ8	Surface		11/27/2018	0.0000710	4.39	<0.000010	3.60	0.0953	1.03	<0.000010	<0.000010	<0.010
L2213684-6	WQ8	Surface	Dup	12/19/2018	0.0000590	4.39	<0.000010	3.60	0.105	1.63	<0.000010	<0.000010	<0.010
L2213684-2	WQ8	Surface		12/19/2018	0.0000650	4.28	<0.000010	3.40	0.104	1.63	<0.000010	<0.000010	<0.010
L2227101-2	WQ8	Surface		1/29/2019	0.0000610	4.40	<0.000010	3.90	0.110	1.23	<0.000010	<0.000010	<0.010
L2232050-5	WQ8	Surface		2/11/2019	0.0000630	4.41	<0.000010	3.80	0.106	1.52	<0.000010	<0.000010	<0.010
L2245144-1	WQ8	Surface		3/14/2019	0.0000670	4.45	<0.000010	3.70	0.102	1.18	<0.000010	<0.000010	<0.010
L2256054-2	WQ8	Surface		4/9/2019	<0.000050	3.40	<0.000010	2.90	0.0823	1.15	<0.000010	<0.000010	<0.010
L2277964-1	WQ8	Surface		5/21/2019	<0.000050	3.40	<0.000010	3.30	0.0869	0.930	<0.000010	<0.000010	<0.010
L2286702-2	WQ8	Surface		6/4/2019	0.0000550	3.05	<0.000010	3.40	0.0940	1.10	<0.000010	<0.000010	<0.010
L2313851-3	WQ8	Surface		7/18/2019	<0.000050	2.56	<0.000010	3.40	0.0870	1.27	<0.000010	<0.000010	<0.010
L2328474-4	WQ8	Surface		8/12/2019	0.0000680	2.70	<0.000010	3.40	0.0876	1.10	<0.000010	<0.000010	<0.010
L2349445-2	WQ8	Surface		9/16/2019	<0.000050	2.66	<0.000010	3.60	0.101	1.20	<0.000010	<0.000010	<0.010
L2371052-2	WQ8	Surface		10/22/2019	0.0000650	3.31	<0.000010	3.80	0.0934	1.23	<0.000010	<0.000010	<0.010
L2388381-2	WQ8	Surface		11/25/2019	0.0000630	4.37	<0.000010	3.50	0.0950	1.37	<0.000010	<0.000010	<0.010
VA19A0791-002	WQ8	Surface		12/17/2019	<0.000050	4.53	<0.000010	3.92	0.112	1.35	<0.000010	<0.000010	<0.00030
VA20A0960-002	WQ8	Surface		1/27/2020	0.0000670	4.58	<0.000010	3.86	0.103	1.33	<0.000010	<0.000010	<0.00030
VA20A2126-002	WQ8	Surface		2/19/2020	0.0000550	4.71	<0.000010	4.08	0.106	1.38	<0.000010	<0.000010	<0.00030
VA20A3691-003	WQ8	Surface		3/18/2020	<0.000050	4.63	<0.000010	4.02	0.0996	1.12	<0.000010	<0.000010	<0.00030
VA20A4555-003	WQ8	Surface		4/7/2020	0.0000980	4.46	<0.000010	4.00	0.115	1.51	<0.000010	<0.000010	<0.00030
VA20A6356-001	WQ8	Surface		5/11/2020	0.0000520	4.42	<0.000010	3.40	0.100	1.20	<0.000010	<0.000010	0.000890
VA20A7797-004	WQ8	Surface		6/3/2020	0.0000520	4.10	<0.000010	3.33	0.0934	1.24	<0.000010	<0.000010	0.000330
VA20B0021-004	WQ8	Surface		7/7/2020	0.0000610	3.63	<0.000010	3.53	0.0911	1.20	<0.000010	<0.000010	<0.00030
VA20B2156-005	WQ8	Surface		8/5/2020	0.0000740	3.63	<0.000010	3.34	0.0903	1.41	<0.000010	<0.000010	<0.00030
VA20B4443-004	WQ8	Surface		9/2/2020	<0.000050	3.29	<0.000010	3.28	0.0897	1.16	<0.000010	<0.000010	<0.00030
VA20B7624-002	WQ8	Surface		10/6/2020	0.0000870	3.44	<0.000010	3.57	0.0943	0.970	<0.000010	<0.000010	<0.00030
VA20C0298-002	WQ8	Surface		11/5/2020	0.0000840	5.30	<0.000010	3.81	0.0820	0.680	<0.000010	<0.000010	0.00661
	WQ9	Surface	Dup	3/30/2011	< 0.0006	5.10	< 0.00005	3.60	0.112	-	< 0.00005	< 0.0001	0.00170
	WQ9	Surface		3/30/2011	< 0.0006	5.16	< 0.00005	3.70	0.112	-	< 0.00005	< 0.0001	0.00240
	WQ9	Surface	Dup	4/19/2011	< 0.0006	5.10	< 0.00005	3.80	0.115	-	< 0.00005	< 0.0001	0.00250
	WQ9	Surface		4/19/2011	< 0.0006	5.40	< 0.00005	3.80	0.116	-	< 0.00005	< 0.0001	0.00400
	WQ9	Surface		5/17/2011	< 0.0006	4.68	< 0.00005	2.70	0.0771	-	< 0.00005	< 0.0001	0.00680
	WQ9	Surface		5/24/2011	< 0.0006	4.59	< 0.00005	2.60	0.0725	-	< 0.00005	< 0.0001	0.00590
	WQ9	Surface	Dup	5/30/2011	< 0.0006	4.39	< 0.00005	2.60	0.0738	-	< 0.00005	< 0.0001	0.00460
	WQ9	Surface		5/30/2011	< 0.0006	4.58	< 0.00005	2.60	0.0735	-	< 0.00005	< 0.0001	0.00420
	WQ9	Surface		6/6/2011	< 0.0006	4.32	< 0.00005	2.70	0.0773	-	< 0.00005	< 0.0001	0.00330

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					Selenium (Se)-Total	Silicon (Si)-Total	Silver (Ag)-Total	Sodium (Na)-Total	Strontium (Sr)-Total	Sulfur (S)-Total	Thallium (Tl)-Total	Tin (Sn)-Total	Titanium (Ti)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ9	Surface		6/13/2011	< 0.0006	4.23	< 0.00005	2.70	0.0775	-	< 0.00005	< 0.0001	0.00270
	WQ9	Surface		7/18/2011	< 0.0006	5.15	< 0.00005	2.70	0.0815	-	< 0.00005	< 0.0001	0.00290
	WQ9	Surface		8/15/2011	< 0.0006	4.06	< 0.00005	3.10	0.0918	-	< 0.00005	< 0.0001	0.00120
	WQ9	Surface		9/19/2011	< 0.0006	4.58	< 0.00005	3.30	0.0970	-	< 0.00005	< 0.0001	0.000800
	WQ9	Surface		10/17/2011	< 0.0006	5.16	< 0.00005	3.20	0.0906	-	< 0.00005	< 0.0001	0.000900
	WQ9	Surface		11/14/2011	< 0.0006	4.75	< 0.00005	3.30	0.0952	-	< 0.00005	< 0.0001	0.00260
	WQ9	Surface		12/12/2011	< 0.0006	5.37	< 0.00005	3.60	0.104	-	< 0.00005	< 0.0001	0.00100
	WQ9	Surface		1/12/2012	< 0.0006	6.16	< 0.00005	3.60	0.109	-	< 0.00005	< 0.0001	0.00380
	WQ9	Surface		2/13/2012	< 0.0006	5.37	< 0.00005	3.50	0.108	-	< 0.00005	< 0.0001	0.00150
	WQ9	Surface		3/12/2012	< 0.0006	6.17	< 0.00005	3.70	0.106	-	< 0.00005	< 0.0001	0.00150
	WQ9	Surface		4/17/2012	< 0.0006	5.54	< 0.00005	3.20	0.0882	-	< 0.00005	< 0.0001	0.00640
	WQ9	Surface		5/14/2012	< 0.0006	5.01	< 0.00005	3.20	0.0866	-	< 0.00005	< 0.0001	0.00720
	WQ9	Surface	Dup	5/22/2012	< 0.0006	4.64	< 0.00005	2.90	0.0796	-	< 0.00005	< 0.0001	0.00760
	WQ9	Surface		5/22/2012	< 0.0006	4.58	< 0.00005	2.90	0.0791	-	< 0.00005	< 0.0001	0.00510
	WQ9	Surface		5/28/2012	< 0.0006	4.78	< 0.00005	2.90	0.0779	-	< 0.00005	< 0.0001	0.00630
	WQ9	Surface		6/4/2012	< 0.0006	4.86	< 0.00005	3.00	0.0826	-	< 0.00005	< 0.0001	0.00230
	WQ9	Surface		6/11/2012	< 0.0006	4.75	< 0.00005	3.00	0.0836	-	< 0.00005	0.000200	0.00200
	WQ9	Surface		6/18/2012	< 0.0006	4.39	< 0.00005	3.00	0.0845	-	< 0.00005	< 0.0001	0.00210
	WQ9	Surface		7/16/2012	< 0.0006	4.35	< 0.00005	3.30	0.0932	-	< 0.00005	< 0.0001	0.000600
	WQ9	Surface		8/13/2012	< 0.0006	4.01	< 0.00005	3.50	0.103	-	< 0.00005	< 0.0001	0.000700
	WQ9	Surface		9/17/2012	< 0.0006	4.17	< 0.00005	3.40	0.101	-	< 0.00005	< 0.0001	0.00100
	WQ9	Surface		10/16/2012	< 0.0006	4.19	< 0.00005	3.70	0.103	-	< 0.00005	< 0.0001	0.000900
	WQ9	Surface		11/12/2012	< 0.0006	5.39	< 0.00005	3.60	0.0969	-	< 0.00005	< 0.0001	0.00110
	WQ9	Surface	Dup	12/10/2012	< 0.0006	5.22	< 0.00005	3.80	0.104	-	< 0.00005	< 0.0001	0.000500
	WQ9	Surface		12/10/2012	< 0.0006	5.02	< 0.00005	3.80	0.103	-	< 0.00005	< 0.0001	0.000400
	WQ9	Surface		1/15/2013	< 0.0006	5.83	< 0.00005	3.90	0.108	-	< 0.00005	< 0.0001	0.00100
	WQ9	Surface		2/13/2013	< 0.0006	5.03	< 0.00005	4.00	0.105	-	< 0.00005	< 0.0001	0.00100
	WQ9	Surface		3/12/2013	< 0.0006	4.47	< 0.00005	4.00	0.113	-	< 0.00005	< 0.0001	0.000300
	WQ9	Surface		4/16/2013	< 0.0001	4.76	< 0.00005	3.20	0.0996	-	< 0.00005	< 0.0001	0.00390
	WQ9	Surface		5/14/2013	< 0.0001	3.85	< 0.00005	2.60	0.0815	-	< 0.00005	< 0.0001	0.00470
	WQ9	Surface		5/21/2013	< 0.0001	4.10	< 0.00005	3.00	0.0985	-	< 0.00005	< 0.0001	0.00290
	WQ9	Surface	Dup	5/28/2013	< 0.0001	3.98	< 0.00005	3.10	0.0804	-	< 0.00005	< 0.0001	0.00420
	WQ9	Surface		5/28/2013	< 0.0001	3.97	< 0.00005	3.20	0.0782	-	< 0.00005	< 0.0001	0.00420
	WQ9	Surface		6/4/2013	< 0.0001	4.02	< 0.00005	2.90	0.0806	-	< 0.00005	< 0.0001	0.00220
	WQ9	Surface		6/11/2013	< 0.0001	3.54	< 0.00005	3.00	0.0918	-	< 0.00005	< 0.0001	0.00190
	WQ9	Surface		6/18/2013	< 0.0001	3.79	< 0.00005	2.90	0.0784	-	< 0.00005	< 0.0001	0.00120
	WQ9	Surface		4/13/2014	< 0.0001	4.47	< 0.00005	3.10	0.0943	-	< 0.00005	< 0.0001	0.00150
	WQ9	Surface	Dup	7/2/2014	< 0.0001	3.80	< 0.00005	3.20	0.0911	-	< 0.00005	< 0.0001	0.000800
	WQ9	Surface		7/2/2014	< 0.0001	< 0.01	< 0.00005	< 0.5	< 0.000005	-	< 0.00005	< 0.0001	< 0.0002
	WQ9	Surface		9/24/2014	< 0.0001	3.87	< 0.00005	3.70	0.106	-	< 0.00005	< 0.0001	0.000700
	WQ9	Surface		12/9/2014	< 0.0001	5.12	< 0.00005	3.70	0.102	-	< 0.00005	< 0.0001	0.000500
L1812856-10	WQ9	Surface		8/10/2016	0.0000560	2.07	< 0.000010	3.40	0.0948	-	< 0.000010	< 0.00010	< 0.010
L1815654-10	WQ9	Surface		8/16/2016	0.0000730	1.93	< 0.000010	3.50	0.0924	-	< 0.000010	< 0.00010	< 0.010
L1819041-1	WQ9	Surface		8/23/2016	0.0000810	2.42	< 0.000010	3.40	0.0962	-	< 0.000010	< 0.00010	< 0.010

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					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1823224-3	WQ9	Surface		8/31/2016	0.0000720	2.87	<0.000010	3.40	0.0990	-	<0.000010	<0.00010	<0.010
L1826303-6	WQ9	Surface	Dup	9/7/2016	0.0000890	3.12	<0.000010	3.10	0.0997	-	<0.000010	<0.00010	<0.010
L1826303-10	WQ9	Surface		9/7/2016	0.0000530	6.08	<0.000010	2.90	0.0754	-	<0.000010	<0.00010	<0.010
L1913531-7	WQ9	Surface		4/12/2017	0.0000810	4.61	<0.000010	3.20	0.0877	-	<0.000010	<0.00010	<0.010
L1926080-5	WQ9	Surface		5/11/2017	0.0000640	4.89	<0.000010	3.30	0.0880	-	<0.000010	<0.00010	<0.010
L1939712-9	WQ9	Surface		6/7/2017	0.0000610	3.73	<0.000010	3.00	0.0821	-	<0.000010	<0.00010	<0.010
L1962414-5	WQ9	Surface		7/19/2017	0.0000760	2.81	<0.000010	3.50	0.0920	-	<0.000010	<0.00010	<0.010
L1984944-7	WQ9	Surface		8/30/2017	0.0000610	2.87	<0.000010	3.70	0.104	1.63	<0.000010	<0.00010	<0.010
L1988832-5	WQ9	Surface		9/9/2017	0.0000500	2.78	<0.000010	3.80	0.105	1.04	<0.000010	<0.00010	<0.010
L2009845-6	WQ9	Surface	Dup	10/17/2017	0.0000760	4.46	<0.000010	3.40	0.0875	1.38	<0.000010	<0.00010	<0.010
L2009845-3	WQ9	Surface		10/17/2017	0.0000790	4.42	<0.000010	3.30	0.0912	1.60	<0.000010	<0.00010	<0.010
L2020333-3	WQ9	Surface		11/7/2017	0.0000620	4.98	<0.000010	3.20	0.101	1.02	<0.000010	<0.00010	<0.010
L2034610-6	WQ9	Surface	Dup	12/11/2017	0.0000850	4.75	<0.000010	3.70	0.102	1.06	<0.000010	<0.00010	<0.010
L2034610-3	WQ9	Surface		12/11/2017	0.0000700	4.62	<0.000010	3.70	0.102	1.31	<0.000010	<0.00010	<0.010
L2049224-2	WQ9	Surface		1/23/2018	0.0000690	4.91	<0.000010	3.80	0.102	1.51	<0.000010	<0.00010	<0.010
L2057025-1	WQ9	Surface		2/13/2018	0.0000540	4.49	<0.000010	3.70	0.111	1.39	<0.000010	<0.00010	<0.010
L2074294-2	WQ9	Surface		3/28/2018	0.0000770	4.52	<0.000010	3.70	0.105	1.68	<0.000010	<0.00010	<0.010
L2081503-3	WQ9	Surface		4/17/2018	0.0000600	4.60	<0.000010	3.50	0.102	1.74	<0.000010	<0.00010	<0.010
L2097084-2	WQ9	Surface		5/16/2018	0.0000740	4.18	<0.000010	2.70	0.0742	1.11	<0.000010	<0.00010	<0.010
L2104479-5	WQ9	Surface	Dup	5/30/2018	0.0000510	3.56	<0.000010	3.10	0.0799	0.940	<0.000010	<0.00010	<0.010
L2104479-3	WQ9	Surface		5/30/2018	0.0000570	4.05	<0.000010	3.10	0.0810	0.780	<0.000010	<0.00010	<0.010
L2132128-3	WQ9	Surface		7/17/2018	0.0000890	3.83	<0.000010	3.20	0.0865	0.990	<0.000010	<0.00010	<0.010
L2144782-3	WQ9	Surface		8/9/2018	0.0000560	3.79	<0.000010	3.40	0.0951	1.12	<0.000010	<0.00010	<0.010
L2164448-5	WQ9	Surface		9/12/2018	<0.000050	3.95	<0.000010	3.80	0.0975	0.660	<0.000010	<0.00010	<0.010
L2187638-5	WQ9	Surface		10/24/2018	0.0000630	4.52	<0.000010	3.40	0.0903	1.39	<0.000010	<0.00010	<0.010
L2203408-4	WQ9	Surface		11/27/2018	<0.000050	4.89	<0.000010	3.40	0.0876	1.11	<0.000010	<0.00010	<0.010
L2213684-3	WQ9	Surface		12/19/2018	0.0000600	5.02	<0.000010	3.50	0.0976	1.73	<0.000010	<0.00010	<0.010
L2227101-3	WQ9	Surface		1/29/2019	0.0000780	4.53	<0.000010	3.50	0.103	1.16	<0.000010	<0.00010	<0.010
L2233329-3	WQ9	Surface		2/13/2019	0.0000530	4.59	<0.000010	3.50	0.105	1.42	<0.000010	<0.00010	<0.010
L2245144-3	WQ9	Surface		3/14/2019	0.0000700	5.46	<0.000010	3.50	0.0956	1.28	<0.000010	<0.00010	<0.010
L2256054-3	WQ9	Surface		4/9/2019	0.0000870	4.82	<0.000010	3.00	0.0921	1.77	<0.000010	<0.00010	<0.010
L2274397-4	WQ9	Surface		5/14/2019	0.0000950	4.38	<0.000010	2.90	0.0844	1.23	<0.000010	<0.00010	<0.010
L2286702-3	WQ9	Surface		6/4/2019	0.0000970	3.56	<0.000010	3.30	0.0878	1.20	<0.000010	<0.00010	<0.010
L2313851-4	WQ9	Surface		7/18/2019	0.0000530	3.72	<0.000010	3.10	0.0810	1.13	<0.000010	<0.00010	<0.010
L2325935-3	WQ9	Surface		8/7/2019	<0.000050	3.74	<0.000010	3.10	0.0876	1.04	<0.000010	<0.00010	<0.010
L2349445-3	WQ9	Surface		9/16/2019	0.0000500	4.15	<0.000010	3.40	0.101	1.18	<0.000010	<0.00010	<0.010
L2371052-3	WQ9	Surface		10/22/2019	0.0000870	4.59	<0.000010	3.20	0.0874	1.40	<0.000010	0.000130	<0.010
L2388381-3	WQ9	Surface		11/25/2019	0.0000610	5.32	<0.000010	3.00	0.0875	1.28	<0.000010	<0.00010	<0.010
VA19A0791-003	WQ9	Surface		12/17/2019	<0.000050	5.28	<0.000010	3.66	0.108	1.44	<0.000010	<0.00010	0.000850
VA20A0960-005	WQ9	Surface	Dup	1/27/2020	0.0000800	5.03	<0.000010	3.65	0.101	1.26	<0.000010	<0.00010	0.000560
VA20A0960-003	WQ9	Surface		1/27/2020	0.0000740	5.23	<0.000010	3.62	0.101	1.48	<0.000010	<0.00010	0.000640
VA20A2211-003	WQ9	Surface		2/20/2020	0.0000750	5.15	<0.000010	3.69	0.102	1.22	<0.000010	<0.00010	0.000360
VA20A3691-004	WQ9	Surface		3/18/2020	0.0000680	5.33	<0.000010	3.99	0.0998	1.38	<0.000010	<0.00010	0.00311
VA20A4555-004	WQ9	Surface		4/7/2020	0.000101	5.44	<0.000010	3.74	0.102	1.47	<0.000010	<0.00010	<0.0102

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Selenium (Se)-Total	Silicon (Si)-Total	Silver (Ag)-Total	Sodium (Na)-Total	Strontium (Sr)-Total	Sulfur (S)-Total	Thallium (Tl)-Total	Tin (Sn)-Total	Titanium (Ti)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
VA20A6218-005	WQ9	Surface	Dup	5/7/2020	<0.000050	4.69	<0.000010	3.31	0.0897	1.19	<0.000010	<0.00010	0.000570
VA20A6218-003	WQ9	Surface		5/7/2020	0.0000640	4.61	<0.000010	2.84	0.0812	1.32	<0.000010	<0.00010	0.00195
VA20A6503-004	WQ9	Surface		5/13/2020	<0.000050	4.36	<0.000010	3.02	0.0864	1.22	<0.000010	<0.00010	0.00311
VA20A6869-006	WQ9	Surface	Dup	5/20/2020	0.0000770	4.53	<0.000010	2.62	0.0694	1.16	<0.000010	<0.00010	<0.00240
VA20A6869-002	WQ9	Surface		5/20/2020	<0.000050	4.46	<0.000010	2.64	0.0720	1.00	<0.000010	<0.00010	0.00214
VA20A7367-002	WQ9	Surface		5/28/2020	0.0000550	4.69	<0.000010	3.04	0.0823	1.19	<0.000010	<0.00010	0.00255
VA20A7672-003	WQ9	Surface		6/2/2020	0.0000800	4.40	<0.000010	2.95	0.0826	0.940	<0.000010	<0.00010	0.000460
VA20A9918-002	WQ9	Surface		7/6/2020	0.0000700	4.52	<0.000010	2.90	0.0799	1.23	<0.000010	<0.00010	0.00178
VA20B2156-006	WQ9	Surface		8/5/2020	0.0000660	4.04	<0.000010	3.45	0.0896	1.14	<0.000010	<0.00010	0.000520
VA20B2426-001	WQ9	Surface		8/10/2020	0.0000840	4.29	<0.000010	3.58	0.0897	1.26	<0.000010	<0.00010	0.000850
VA20B3033-005	WQ9	Surface	Dup	8/17/2020	0.0000680	4.58	<0.000010	3.24	0.0981	1.21	<0.000010	<0.00010	0.00130
VA20B3033-003	WQ9	Surface		8/17/2020	0.0000800	4.55	<0.000010	3.40	0.0966	1.07	<0.000010	<0.00010	0.000940
VA20B3609-003	WQ9	Surface		8/24/2020	0.0000630	4.00	<0.000010	3.20	0.0929	1.28	<0.000010	<0.00010	0.00139
VA20B4443-005	WQ9	Surface		9/2/2020	0.0000610	4.49	<0.000010	3.17	0.0888	1.03	<0.000010	<0.00010	0.00145
VA20B7624-003	WQ9	Surface		10/6/2020	0.0000860	4.44	<0.000010	3.47	0.0985	0.880	<0.000010	<0.00010	0.000550
VA20C0298-003	WQ9	Surface		11/5/2020	0.0000950	5.50	<0.000010	2.73	0.0770	0.860	<0.000010	<0.00010	0.00640

Notes:

"-" indicates parameter was not analyzed.

"<" value is below the detection limit

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Uranium (U)-Total	Vanadium (V)-Total	Zinc (Zn)-Total	Aluminum (Al)-Dissolved	Antimony (Sb)-Dissolved	Arsenic (As)-Dissolved	Barium (Ba)-Dissolved	Beryllium (Be)-Dissolved	Bismuth (Bi)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1989016-1	BI-09	Surface		9/7/2017	0.000107	<0.00050	0.00300	0.0192	<0.00010	0.000190	0.0126	<0.00010	<0.000050
L2049224-4	BI-09	Surface		1/23/2018	0.000176	<0.00050	<0.0030	0.0543	<0.00010	0.000210	0.00794	<0.00010	<0.000050
L2062480-1	BI-09	Surface		2/27/2018	0.000141	<0.00050	<0.0030	0.0340	<0.00010	0.000190	0.00773	<0.00010	<0.000050
L2073898-1	BI-09	Surface		3/27/2018	0.000133	<0.00050	<0.0030	0.0318	<0.00010	0.000170	0.00875	<0.00010	<0.000050
L2081505-2	BI-09	Surface	Dup	4/16/2018	0.000171	0.000540	<0.0030	0.0789	<0.00010	0.000160	0.00850	<0.00010	<0.000050
L2081505-1	BI-09	Surface		4/16/2018	0.000169	0.000550	<0.0030	0.0814	<0.00010	0.000190	0.00894	<0.00010	<0.000050
L2096380-2	BI-09	Surface		5/15/2018	0.000242	<0.00050	<0.0030	0.154	<0.00010	0.000180	0.00617	<0.00010	<0.000050
L2102737-3	BI-09	Surface		5/28/2018	0.000278	<0.00050	<0.0030	0.131	<0.00010	0.000200	0.00677	<0.00010	<0.000050
L2132128-4	BI-09	Surface		7/17/2018	0.000158	<0.00050	<0.0030	0.0434	<0.00010	0.000190	0.00884	<0.00010	<0.000050
L2144658-1	BI-09	Surface		8/8/2018	0.000133	<0.00050	<0.0030	0.0263	<0.00010	0.000170	0.0103	<0.00010	<0.000050
L2163669-1	BI-09	Surface		9/11/2018	0.0000920	<0.00050	<0.0030	0.0157	<0.00010	0.000170	0.00970	<0.00010	<0.000050
L2187638-1	BI-09	Surface		10/24/2018	0.000119	<0.00050	<0.0030	0.0606	<0.00010	0.000160	0.00737	<0.00010	<0.000050
L2204086-3	BI-09	Surface		11/28/2018	0.000220	0.000740	<0.0030	0.119	<0.00010	0.000210	0.00740	<0.00010	<0.000050
L2213684-5	BI-09	Surface		12/19/2018	0.000187	<0.00050	<0.0030	0.0543	<0.00010	0.000190	0.00847	<0.00010	<0.000050
L2227101-5	BI-09	Surface		1/29/2019	0.000145	<0.00050	<0.0030	0.0339	<0.00010	0.000170	0.00873	<0.00010	<0.000050
L2233329-6	BI-09	Surface	Dup	2/13/2019	0.000147	<0.00050	<0.0030	0.0274	<0.00010	0.000160	0.00908	<0.00010	<0.000050
L2233329-4	BI-09	Surface		2/13/2019	0.000154	<0.00050	<0.0030	0.0271	<0.00010	0.000190	0.00917	<0.00010	<0.000050
L2245144-5	BI-09	Surface		3/14/2019	0.000152	<0.00050	<0.0030	0.0240	<0.00010	0.000170	0.00894	<0.00010	<0.000050
L2256054-5	BI-09	Surface		4/9/2019	0.000202	0.000660	<0.0030	0.229	<0.00010	0.000220	0.0105	<0.00010	<0.000050
L2282191-3	BI-09	Surface		5/28/2019	0.000199	<0.00050	<0.0030	0.134	<0.00010	0.000190	0.00764	<0.00010	<0.000050
L2285579-1	BI-09	Surface		6/3/2019	0.000245	<0.00050	<0.0030	0.106	<0.00010	0.000200	0.00774	<0.00010	<0.000050
L2313851-5	BI-09	Surface	Dup	7/18/2019	0.000240	0.000670	<0.0030	0.111	<0.00010	0.000240	0.00797	<0.00010	<0.000050
L2313851-1	BI-09	Surface		7/18/2019	0.000260	0.000780	<0.0030	0.110	<0.00010	0.000250	0.00813	<0.00010	<0.000050
L2329543-3	BI-09	Surface		8/13/2019	0.000240	0.000520	<0.0030	0.133	<0.00010	0.000250	0.0102	<0.00010	<0.000050
L2350223-4	BI-09	Surface		9/17/2019	0.000169	<0.00050	<0.0030	0.0629	<0.00010	0.000220	0.00912	<0.00010	<0.000050
L2371052-5	BI-09	Surface		10/22/2019	0.000214	<0.00050	<0.0030	0.160	<0.00010	0.000200	0.00841	<0.00010	<0.000050
L2378996-1	BI-09	Surface		11/5/2019	0.000240	<0.00050	<0.0030	0.150	<0.00010	0.000200	0.00812	<0.00010	<0.000050
VA19A0726-005	BI-09	Surface		12/16/2019	0.000213	<0.00050	<0.0030	0.104	<0.00010	0.000190	0.00711	<0.000020	<0.000050
VA20A2126-001	BI-09	Surface		2/19/2020	0.000164	<0.00050	<0.0030	0.0600	<0.00010	0.000190	0.00886	<0.000020	<0.000050
VA20A7202-005	BI-09	Surface	Dup	5/26/2020	0.000155	<0.00050	<0.0030	0.154	<0.00010	0.000390	0.00395	0.0000260	<0.000050
VA20A7202-002	BI-09	Surface		5/26/2020	0.000222	<0.00050	<0.0030	0.139	<0.00010	0.000180	0.00645	0.0000290	<0.000050
VA20B2212-001	BI-09	Surface		8/6/2020	0.000256	0.000860	<0.0030	0.108	<0.00010	0.000250	0.00865	<0.000020	<0.000050
VA20C0197-002	BI-09	Surface		11/4/2020	0.000252	0.000750	<0.0030	0.230	<0.00010	0.000210	0.00835	0.0000310	<0.000050
L1989016-2	BI-12	Surface		9/7/2017	0.000110	<0.00050	0.00340	0.0221	<0.00010	0.000330	0.00770	<0.00010	<0.000050
L1762266-1	BI-13	Surface		4/27/2016	0.0000370	<0.00050	<0.0030	0.0962	<0.00010	0.000370	0.00217	<0.00010	<0.000050
L1764648-4	BI-13	Surface		5/3/2016	0.0000330	<0.00050	0.00450	0.108	<0.00010	0.000350	0.00207	<0.00010	<0.000050
L1767107-1	BI-13	Surface		5/9/2016	0.0000310	<0.00050	<0.0030	0.0755	<0.00010	0.000380	0.00211	<0.00010	<0.000050
L1770672-2	BI-13	Surface		5/16/2016	0.0000410	<0.00050	0.00300	0.0647	<0.00010	0.000420	0.00271	<0.00010	<0.000050
L1774541-4	BI-13	Surface	Dup	5/25/2016	0.0000390	0.000610	<0.0030	0.0585	<0.00010	0.000460	0.00254	<0.00010	<0.000050
L1774541-6	BI-13	Surface		5/25/2016	0.0000390	0.000550	<0.0030	0.0585	<0.00010	0.000460	0.00252	<0.00010	<0.000050
L1788643-4	BI-13	Surface		6/22/2016	0.0000370	<0.00050	0.00320	0.0747	<0.00010	0.000370	0.00215	<0.00010	<0.000050
L1808945-4	BI-13	Surface		8/3/2016	0.0000360	0.000670	0.00410	0.0292	<0.00010	0.000510	0.00370	<0.00010	<0.000050
L1812856-4	BI-13	Surface	Dup	8/10/2016	0.0000330	0.000560	<0.0030	0.0365	<0.00010	0.000550	0.00368	<0.00010	<0.000050
L1812856-6	BI-13	Surface		8/10/2016	0.0000350	<0.00050	<0.0030	0.0324	<0.00010	0.000510	0.00365	<0.00010	<0.000050

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Uranium (U)-Total	Vanadium (V)-Total	Zinc (Zn)-Total	Aluminum (Al)-Dissolved	Antimony (Sb)-Dissolved	Arsenic (As)-Dissolved	Barium (Ba)-Dissolved	Beryllium (Be)-Dissolved	Bismuth (Bi)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1815654-4	BI-13	Surface		8/16/2016	0.000380	0.000590	<0.0030	0.0251	<0.00010	0.000610	0.00406	<0.00010	<0.000050
L1819041-7	BI-13	Surface		8/23/2016	0.000380	0.000600	<0.0030	0.0515	<0.00010	0.000520	0.00319	<0.00010	<0.000050
L1823224-7	BI-13	Surface		8/31/2016	0.000350	0.000600	<0.0030	0.0364	<0.00010	0.000560	0.00346	<0.00010	<0.000050
L1826303-1	BI-13	Surface		9/7/2016	0.000390	<0.00050	<0.0030	0.0547	<0.00010	0.000380	0.00228	<0.00010	<0.000050
L1988832-6	BI-13	Surface		9/9/2017	0.0000510	0.000580	<0.0030	0.0127	<0.00010	0.000750	0.00478	<0.00010	<0.000050
	WQ1	Surface		5/17/2011	0.000150	0.000400	0.00930	0.295	< 0.00005	0.000500	0.00589	< 0.0001	-
	WQ1	Surface		5/24/2011	0.000180	< 0.0001	0.00680	-	< 0.00005	0.000400	0.00487	< 0.0001	-
	WQ1	Surface		5/30/2011	0.000200	0.000200	0.00720	0.288	< 0.00005	0.000300	0.00403	< 0.0001	-
	WQ1	Surface	Dup	6/6/2011	0.000170	0.000200	0.00850	0.242	< 0.00005	0.000300	0.00284	< 0.0001	-
	WQ1	Surface		6/6/2011	0.000170	0.000200	0.00470	0.241	< 0.00005	0.000300	0.00280	< 0.0001	-
	WQ1	Surface		6/13/2011	0.000190	0.000200	0.00280	0.216	< 0.00005	0.000300	0.00229	< 0.0001	-
	WQ1	Surface		7/18/2011	0.000170	0.000300	0.00550	0.203	< 0.00005	0.000400	0.00275	< 0.0001	-
	WQ1	Surface		8/15/2011	0.000110	0.000200	0.00240	0.128	< 0.00005	0.000400	0.00223	< 0.0001	-
	WQ1	Surface		9/19/2011	0.0000800	< 0.0001	0.00180	0.0790	< 0.00005	0.000500	0.00227	< 0.0001	-
	WQ1	Surface		10/17/2011	0.000120	< 0.0001	0.00120	0.125	< 0.00005	0.000400	0.00235	< 0.0001	-
	WQ1	Surface		11/14/2011	0.000150	0.000200	0.00360	0.102	0.0000500	0.000400	0.00229	< 0.0001	-
	WQ1	Surface		5/15/2012	0.000150	0.000700	0.00940	0.312	< 0.00005	0.000400	0.00508	< 0.0001	-
	WQ1	Surface		5/23/2012	0.000130	0.000300	0.00470	0.288	0.0000800	0.000400	0.00413	< 0.0001	-
	WQ1	Surface		5/28/2012	0.000180	0.000300	0.00680	0.275	< 0.00005	0.000400	0.00345	< 0.0001	-
	WQ1	Surface		6/4/2012	0.000180	0.000400	0.00260	0.219	0.0000600	0.000300	0.00259	< 0.0001	-
	WQ1	Surface		6/11/2012	0.000160	0.000300	0.00320	0.296	< 0.00005	0.000300	0.00249	< 0.0001	-
	WQ1	Surface		6/18/2012	0.000260	0.000300	0.00420	0.207	< 0.00005	0.000300	0.00240	< 0.0001	-
	WQ1	Surface		7/16/2012	0.000140	0.000400	0.00310	0.171	< 0.00005	0.000400	0.00274	< 0.0001	-
	WQ1	Surface		8/13/2012	0.000200	0.00100	0.0103	0.390	0.0000900	0.00120	0.00503	< 0.0001	-
	WQ1	Surface		9/17/2012	0.0000900	0.000200	0.00420	0.116	0.0000900	0.000800	0.00305	< 0.0001	-
	WQ1	Surface		10/16/2012	0.000110	0.000200	0.00570	0.120	< 0.00005	0.000700	0.00285	< 0.0001	-
	WQ1	Surface		11/12/2012	0.0000800	< 0.0001	0.00390	0.118	0.000130	0.000500	0.00306	< 0.0001	-
	WQ1	Surface		12/10/2012	0.0000800	< 0.0001	0.00500	0.0960	< 0.00005	0.000500	0.00304	< 0.0001	-
	WQ1	Surface		5/14/2013	0.000180	< 0.00005	0.00380	0.314	< 0.00005	0.000300	0.00291	< 0.0001	-
	WQ1	Surface	Dup	5/21/2013	0.000160	0.000330	0.00150	0.263	< 0.00005	0.000200	0.00262	< 0.0001	-
	WQ1	Surface		5/21/2013	0.000170	0.000320	0.00170	0.256	< 0.00005	0.000300	0.00259	< 0.0001	-
	WQ1	Surface		5/28/2013	0.000180	< 0.00005	0.00120	0.317	< 0.00005	0.000300	0.00253	< 0.0001	-
	WQ1	Surface		6/4/2013	0.000180	< 0.00005	0.00160	0.240	< 0.00005	0.000300	0.00228	< 0.0001	-
	WQ1	Surface		6/11/2013	0.000180	< 0.00005	0.00270	0.197	< 0.00005	< 0.0001	0.00216	< 0.0001	-
	WQ1	Surface		6/18/2013	0.000160	< 0.00005	0.00320	0.202	< 0.00005	< 0.0001	0.00237	< 0.0001	-
VA20A2211-005	WQ1	Surface	Dup	2/20/2020	0.0000800	<0.00050	<0.0030	0.0918	<0.00010	0.000490	0.00270	<0.00020	<0.000050
VA20A2211-001	WQ1	Surface		2/20/2020	0.0000860	<0.00050	<0.0030	0.0862	<0.00010	0.000470	0.00270	<0.00020	<0.000050
VA20A6810-001	WQ1	Surface		5/19/2020	0.000208	<0.00050	0.00610	0.257	<0.00010	0.000370	0.00279	0.0000400	<0.000050
VA20B2212-002	WQ1	Surface		8/6/2020	0.000134	0.000590	0.00360	0.155	<0.00010	0.000650	0.00288	0.0000310	<0.000050
VA20C1415-001	WQ1	Surface		11/19/2020	0.000113	<0.00050	0.00310	0.136	<0.00010	0.000390	0.00217	0.0000340	<0.000050
	WQ10	Surface		3/30/2011	0.000290	< 0.0001	0.00300	0.0100	< 0.00005	0.000300	0.00718	< 0.0001	-
	WQ10	Surface		4/19/2011	0.000310	< 0.0001	0.00200	0.0100	< 0.00005	< 0.0001	0.00731	< 0.0001	-
	WQ10	Surface		5/17/2011	0.000230	0.00110	0.00530	0.290	< 0.00005	0.000400	0.00645	< 0.0001	-
	WQ10	Surface		5/25/2011	0.000180	0.000300	0.00260	-	< 0.00005	0.000300	0.00556	< 0.0001	-

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Uranium (U)-Total	Vanadium (V)-Total	Zinc (Zn)-Total	Aluminum (Al)-Dissolved	Antimony (Sb)-Dissolved	Arsenic (As)-Dissolved	Barium (Ba)-Dissolved	Beryllium (Be)-Dissolved	Bismuth (Bi)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ10	Surface		5/31/2011	0.000180	0.000300	0.00480	0.222	< 0.00005	0.000200	0.00466	< 0.0001	-
	WQ10	Surface		6/7/2011	0.000190	0.000400	0.00760	0.195	< 0.00005	0.000300	0.00402	< 0.0001	-
	WQ10	Surface		6/14/2011	0.000200	0.000300	0.00230	0.159	< 0.00005	0.000300	0.00371	< 0.0001	-
	WQ10	Surface		7/19/2011	0.000170	0.000400	0.00190	0.151	< 0.00005	0.000400	0.00487	< 0.0001	-
	WQ10	Surface		8/16/2011	0.000150	0.000300	0.00610	0.0570	< 0.00005	0.000400	0.00554	< 0.0001	-
	WQ10	Surface		9/20/2011	0.000200	0.000100	< 0.0005	0.0190	< 0.00005	0.000400	0.00766	< 0.0001	-
	WQ10	Surface		10/18/2011	0.000130	0.000100	< 0.0005	0.0430	< 0.00005	0.000400	0.00560	< 0.0001	-
	WQ10	Surface		11/15/2011	0.000160	0.000300	0.00160	0.0320	< 0.00005	0.000400	0.00605	< 0.0001	-
	WQ10	Surface		12/12/2011	0.000190	0.000200	< 0.0005	0.0200	< 0.00005	0.000400	0.00724	< 0.0001	-
	WQ10	Surface		1/12/2012	0.000240	0.000200	0.00100	0.0140	< 0.00005	0.000400	0.00738	< 0.0001	-
	WQ10	Surface		2/13/2012	0.000280	0.000200	< 0.0005	0.00700	< 0.00005	0.000400	0.00759	< 0.0001	-
	WQ10	Surface		3/12/2012	0.000300	< 0.0001	0.00130	0.00800	< 0.00005	0.000400	0.00758	< 0.0001	-
	WQ10	Surface		4/16/2012	0.000210	0.000400	< 0.0005	0.0190	< 0.00005	0.000500	0.00768	< 0.0001	-
	WQ10	Surface		5/14/2012	0.000150	0.000400	0.00400	0.199	< 0.00005	0.000300	0.00548	< 0.0001	-
	WQ10	Surface		5/22/2012	0.000130	0.000300	0.00290	0.226	< 0.00005	0.000200	0.00528	< 0.0001	-
	WQ10	Surface		5/29/2012	0.000150	0.000200	0.00270	0.195	0.0000500	0.000300	0.00475	< 0.0001	-
	WQ10	Surface		6/5/2012	0.000170	0.000200	0.000700	0.159	< 0.00005	0.000200	0.00410	< 0.0001	-
	WQ10	Surface		6/12/2012	0.000190	0.000300	0.00220	0.218	< 0.00005	0.000300	0.00379	< 0.0001	-
	WQ10	Surface		6/19/2012	0.000170	0.000300	0.00350	0.151	< 0.00005	0.000400	0.00376	< 0.0001	-
	WQ10	Surface		7/17/2012	0.000110	0.000300	0.000900	0.0500	< 0.00005	0.000400	0.00590	< 0.0001	-
	WQ10	Surface		8/14/2012	0.000150	0.000300	0.00190	0.0680	< 0.00005	0.000500	0.00731	< 0.0001	-
	WQ10	Surface		9/18/2012	0.000200	0.000200	< 0.0005	0.0240	< 0.00005	0.000500	0.00786	< 0.0001	-
	WQ10	Surface		10/15/2012	0.000220	0.000200	0.00250	0.0160	< 0.00005	0.000500	0.00717	< 0.0001	-
	WQ10	Surface		11/13/2012	0.000200	< 0.0001	0.00230	0.0240	< 0.00005	0.000400	0.00701	< 0.0001	-
	WQ10	Surface		1/13/2013	0.000320	< 0.0001	0.00220	0.0120	< 0.00005	0.000500	0.00771	< 0.0001	-
	WQ10	Surface		2/12/2013	0.000230	< 0.0001	0.0119	0.0110	< 0.00005	0.000300	0.00704	< 0.0001	-
	WQ10	Surface		3/11/2013	0.000300	< 0.00005	0.00180	0.00900	< 0.00005	0.000500	0.00694	< 0.0001	-
	WQ10	Surface		4/15/2013	0.000180	< 0.00005	0.00150	0.0380	< 0.00005	0.00160	0.0124	< 0.0001	-
	WQ10	Surface		5/13/2013	0.000160	0.0000600	0.00420	0.259	< 0.00005	0.000300	0.00431	< 0.0001	-
	WQ10	Surface		5/22/2013	0.000150	0.000330	0.00200	0.190	< 0.00005	0.000300	0.00442	< 0.0001	-
	WQ10	Surface		5/27/2013	0.000160	< 0.00005	0.000500	0.254	< 0.00005	0.000300	0.00412	< 0.0001	-
	WQ10	Surface		6/6/2013	0.000170	< 0.00005	0.00140	0.193	< 0.00005	0.000300	0.00429	< 0.0001	-
	WQ10	Surface		6/10/2013	0.000170	< 0.00005	0.000700	0.135	< 0.00005	0.000100	0.00430	< 0.0001	-
	WQ10	Surface		6/17/2013	0.000170	< 0.00005	0.00320	0.150	0.0000700	< 0.0001	0.00421	< 0.0001	-
	WQ10	Surface		4/13/2014	0.000250	< 0.00005	0.00360	0.0130	< 0.00005	0.000300	0.00649	< 0.0001	-
	WQ10	Surface		7/2/2014	0.000150	0.000570	0.00240	0.0540	< 0.00005	0.000400	0.00551	< 0.0001	-
	WQ10	Surface	Dup	9/24/2014	0.000300	0.000310	0.00250	0.00900	< 0.00005	0.000600	0.00949	< 0.0001	-
	WQ10	Surface		9/24/2014	0.000300	0.000360	< 0.0005	0.0110	< 0.00005	0.000600	0.00944	< 0.0001	-
	WQ10	Surface		12/8/2014	0.000240	0.000610	< 0.0005	0.00900	< 0.00005	0.000500	0.00733	< 0.0001	-
L1913006-3	WQ10	Surface		4/11/2017	0.000240	< 0.00050	< 0.0030	0.0164	< 0.00010	0.000530	0.00767	< 0.00010	< 0.000050
L1925486-1	WQ10	Surface		5/10/2017	0.000144	0.000520	< 0.0030	0.217	< 0.00010	0.000440	0.00617	< 0.00010	< 0.000050
L1939712-10	WQ10	Surface		6/7/2017	0.000195	0.000740	< 0.0030	0.147	< 0.00010	0.000500	0.00459	< 0.00010	< 0.000050
L1961670-2	WQ10	Surface		7/18/2017	0.000153	< 0.00050	< 0.0030	0.0326	< 0.00010	0.000620	0.00640	< 0.00010	< 0.000050
L1984944-10	WQ10	Surface	Dup	8/30/2017	0.000290	< 0.00050	< 0.0030	0.0124	< 0.00010	0.000600	0.00950	< 0.00010	< 0.000050

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

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					Uranium (U)-Total	Vanadium (V)-Total	Zinc (Zn)-Total	Aluminum (Al)-Dissolved	Antimony (Sb)-Dissolved	Arsenic (As)-Dissolved	Barium (Ba)-Dissolved	Beryllium (Be)-Dissolved	Bismuth (Bi)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1984944-1	WQ10	Surface		8/30/2017	0.000282	<0.00050	<0.0090	0.0116	<0.00010	0.000640	0.00965	<0.00010	<0.000050
L1988832-1	WQ10	Surface		9/8/2017	0.000223	<0.00050	<0.0030	0.0147	<0.00010	0.000690	0.00882	<0.00010	<0.000050
L2011329-2	WQ10	Surface		10/19/2017	0.000188	0.000540	0.00450	0.0944	<0.00010	0.000630	0.00539	<0.00010	<0.000050
L2020946-1	WQ10	Surface		11/8/2017	0.000182	<0.00050	<0.0030	0.0731	<0.00010	0.000500	0.00518	<0.00010	<0.000050
L2035356-4	WQ10	Surface		12/12/2017	0.000167	<0.00050	<0.0030	0.0458	<0.00010	0.000500	0.00560	<0.00010	<0.000050
L2049678-2	WQ10	Surface		1/24/2018	0.000211	0.000580	0.00400	0.0239	<0.00010	0.000560	0.00645	<0.00010	<0.000050
L2057025-2	WQ10	Surface		2/13/2018	0.000211	<0.00050	<0.0030	0.0170	<0.00010	0.000530	0.00609	<0.00010	<0.000050
L2074294-8	WQ10	Surface	Dup	3/28/2018	0.000234	<0.00050	<0.0030	0.0124	<0.00010	0.000450	0.00719	<0.00010	<0.000050
L2074294-3	WQ10	Surface		3/28/2018	0.000237	<0.00050	<0.0030	0.0117	<0.00010	0.000520	0.00638	<0.00010	<0.000050
L2081503-4	WQ10	Surface		4/17/2018	0.000238	<0.00050	<0.0030	0.0135	<0.00010	0.000510	0.00652	<0.00010	<0.000050
L2097084-3	WQ10	Surface		5/16/2018	0.000211	0.000860	<0.0030	0.191	<0.00010	0.000350	0.00397	<0.00010	<0.000050
L2103632-3	WQ10	Surface		5/29/2018	0.000188	<0.00050	<0.0030	0.132	<0.00010	0.000440	0.00392	<0.00010	<0.000050
L2132986-2	WQ10	Surface		7/18/2018	0.000148	0.000650	<0.0030	0.0382	<0.00010	0.000660	0.00658	<0.00010	<0.000050
L2143640-6	WQ10	Surface		8/7/2018	0.000162	0.000620	<0.0030	0.0339	<0.00010	0.000740	0.00745	<0.00010	<0.000050
L2163669-2	WQ10	Surface		9/11/2018	0.000193	<0.00050	<0.0030	0.0158	<0.00010	0.000660	0.00800	<0.00010	<0.000050
L2188218-1	WQ10	Surface		10/26/2018	0.000146	<0.00050	<0.0030	0.0356	<0.00010	0.000520	0.00554	<0.00010	<0.000050
L2204508-3	WQ10	Surface		11/29/2018	0.000135	0.000690	<0.0030	0.0678	<0.00010	0.000490	0.00535	<0.00010	<0.000050
L2213246-1	WQ10	Surface		12/18/2018	0.000169	<0.00050	<0.0030	0.0349	<0.00010	0.000500	0.00585	<0.00010	<0.000050
L2227701-1	WQ10	Surface		1/30/2019	0.000180	<0.00050	<0.0030	0.0222	<0.00010	0.000500	0.00637	<0.00010	<0.000050
L2232050-6	WQ10	Surface		2/11/2019	0.000240	<0.00050	<0.0030	0.0164	<0.00010	0.000460	0.00620	<0.00010	<0.000050
L2244756-1	WQ10	Surface		3/13/2019	0.000310	<0.00050	<0.0030	0.0112	<0.00010	0.000590	0.00756	<0.00010	<0.000050
L2256053-5	WQ10	Surface	Dup	4/8/2019	0.000164	<0.00050	<0.0030	0.0414	<0.00010	0.000600	0.00692	<0.00010	<0.000050
L2256053-1	WQ10	Surface		4/8/2019	0.000168	<0.00050	<0.0030	0.0380	<0.00010	0.000540	0.00633	<0.00010	<0.000050
L2273497-1	WQ10	Surface		5/13/2019	0.000188	0.000580	<0.0030	0.204	<0.00010	0.000410	0.00487	<0.00010	<0.000050
L2285579-6	WQ10	Surface		6/3/2019	0.000164	<0.00050	<0.0030	0.123	<0.00010	0.000490	0.00482	<0.00010	<0.000050
L2312637-1	WQ10	Surface		7/16/2019	0.000147	<0.00050	<0.0030	0.109	<0.00010	0.000490	0.00507	<0.00010	<0.000050
L2326388-1	WQ10	Surface		8/8/2019	0.000150	<0.00050	<0.0030	0.0965	<0.00010	0.000580	0.00568	<0.00010	<0.000050
L2350223-1	WQ10	Surface		9/17/2019	0.000131	<0.00050	<0.0030	0.0452	<0.00010	0.000560	0.00596	<0.00010	<0.000050
L2372667-1	WQ10	Surface		10/23/2019	0.000135	0.000570	<0.0030	0.0917	<0.00010	0.000430	0.00460	<0.00010	<0.000050
L2383392-1	WQ10	Surface		11/14/2019	0.000138	0.000700	<0.0030	0.111	<0.00010	0.000430	0.00433	<0.00010	<0.000050
VA19A0726-004	WQ10	Surface		12/16/2019	0.000138	<0.00050	<0.0030	0.0708	<0.00010	0.000470	0.00468	<0.000020	<0.000050
VA20A0812-001	WQ10	Surface		1/23/2020	0.000164	<0.00050	<0.0030	0.0409	<0.00010	0.000470	0.00599	<0.000020	<0.000050
VA20A1887-001	WQ10	Surface		2/13/2020	0.000177	<0.00050	<0.0030	0.0266	<0.00010	0.000460	0.00580	<0.000100	<0.000050
VA20A3516-001	WQ10	Surface		3/16/2020	0.000225	0.000510	<0.0030	0.0190	<0.00010	0.000490	0.00670	<0.000020	<0.000050
VA20A4369-001	WQ10	Surface		4/1/2020	0.000221	<0.00050	<0.0030	0.0182	<0.00010	0.000510	0.00694	<0.000020	<0.000050
VA20A6218-001	WQ10	Surface		5/7/2020	0.000117	0.000540	0.00330	0.195	<0.00010	0.000340	0.00496	0.0000270	<0.000050
VA20A6356-002	WQ10	Surface		5/11/2020	0.000126	0.000550	0.00370	0.212	<0.00010	0.000330	0.00495	0.0000320	<0.000050
VA20A6810-003	WQ10	Surface		5/19/2020	0.000186	<0.00050	<0.0030	0.202	<0.00010	0.000390	0.00443	0.0000280	<0.000050
VA20A7202-003	WQ10	Surface		5/26/2020	0.000150	<0.00050	<0.0030	0.157	<0.00010	0.000370	0.00395	0.0000270	<0.000050
VA20A7672-002	WQ10	Surface		6/2/2020	0.000160	<0.00050	<0.0030	0.128	<0.00010	0.000390	0.00394	0.0000250	<0.000050
VA20A9918-003	WQ10	Surface		7/6/2020	0.000162	<0.00050	<0.0030	0.110	<0.00010	0.000510	0.00494	0.0000310	<0.000050
VA20B2156-008	WQ10	Surface	Dup	8/5/2020	0.000146	<0.00050	<0.0030	0.0390	<0.00010	0.000630	0.00649	<0.000020	<0.000050
VA20B2156-001	WQ10	Surface		8/5/2020	0.000154	<0.00050	<0.0030	0.0382	<0.00010	0.000660	0.00609	<0.000020	<0.000050
VA20B2426-004	WQ10	Surface		8/10/2020	0.000154	<0.00050	<0.0030	0.0464	<0.00010	0.000630	0.00573	<0.000020	<0.000050

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					Uranium (U)-Total	Vanadium (V)-Total	Zinc (Zn)-Total	Aluminum (Al)-Dissolved	Antimony (Sb)-Dissolved	Arsenic (As)-Dissolved	Barium (Ba)-Dissolved	Beryllium (Be)-Dissolved	Bismuth (Bi)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
VA20B3264-002	WQ10	Surface		8/19/2020	0.000138	0.000780	<0.0030	0.0468	<0.00010	0.000650	0.00647	<0.000020	<0.000050
VA20B3609-001	WQ10	Surface		8/24/2020	0.000164	<0.00050	<0.0030	0.0538	<0.00010	0.000670	0.00612	<0.000020	<0.000050
VA20B4313-001	WQ10	Surface		9/1/2020	0.000136	<0.00050	<0.0030	0.0377	<0.00010	0.000600	0.00568	<0.000020	<0.000050
VA20B7624-004	WQ10	Surface		10/6/2020	0.000158	<0.00050	0.00420	0.0352	<0.00010	0.000640	0.00676	<0.000020	<0.000050
VA20C0197-003	WQ10	Surface		11/4/2020	0.000157	0.000610	<0.0030	0.241	<0.00010	0.000450	0.00526	0.0000270	<0.000050
	WQ11	Surface		3/30/2011	0.000350	< 0.0001	0.00600	0.0400	< 0.00005	< 0.0001	0.0111	< 0.0001	-
	WQ11	Surface		4/19/2011	0.000220	< 0.0001	0.00160	0.0640	< 0.00005	< 0.0001	0.00883	< 0.0001	-
	WQ11	Surface		5/17/2011	0.000130	0.00100	0.00540	0.495	< 0.00005	0.000100	0.00677	< 0.0001	-
	WQ11	Surface		5/25/2011	0.000170	0.000500	0.00180	-	< 0.00005	< 0.0001	0.00642	< 0.0001	-
	WQ11	Surface		5/31/2011	0.000160	0.000500	0.00230	0.461	< 0.00005	< 0.0001	0.00581	< 0.0001	-
	WQ11	Surface		6/6/2011	0.000220	0.000900	0.00370	0.402	< 0.00005	< 0.0001	0.00509	< 0.0001	-
	WQ11	Surface		6/13/2011	0.000190	0.000500	0.00190	0.344	< 0.00005	0.000100	0.00505	< 0.0001	-
	WQ11	Surface		7/18/2011	0.000210	0.000700	0.00150	0.437	< 0.00005	0.000200	0.00642	< 0.0001	-
	WQ11	Surface		8/15/2011	0.000150	0.000500	0.00130	0.204	< 0.00005	0.000100	0.00694	< 0.0001	-
	WQ11	Surface		9/19/2011	0.000150	0.000200	< 0.0005	0.0610	< 0.00005	< 0.0001	0.0105	< 0.0001	-
	WQ11	Surface		10/17/2011	0.000120	0.000300	< 0.0005	0.159	< 0.00005	< 0.0001	0.00713	< 0.0001	-
	WQ11	Surface		11/14/2011	0.000120	0.000300	0.00140	0.109	< 0.00005	0.000100	0.00753	< 0.0001	-
	WQ11	Surface		12/12/2011	0.000140	0.000200	< 0.0005	0.0830	< 0.00005	< 0.0001	0.00974	< 0.0001	-
	WQ11	Surface		5/15/2012	0.000160	0.000600	0.00180	0.382	< 0.00005	0.000100	0.00614	< 0.0001	-
	WQ11	Surface		5/22/2012	0.000150	0.000500	0.00700	0.428	< 0.00005	< 0.0001	0.00593	< 0.0001	-
	WQ11	Surface		5/28/2012	0.000160	0.000500	0.00240	0.390	< 0.00005	< 0.0001	0.00515	< 0.0001	-
	WQ11	Surface		6/4/2012	0.000160	0.000400	< 0.0005	0.301	< 0.00005	< 0.0001	0.00492	< 0.0001	-
	WQ11	Surface		6/11/2012	0.000130	0.000400	0.00110	0.325	< 0.00005	< 0.0001	0.00523	< 0.0001	-
	WQ11	Surface		6/18/2012	0.000150	0.000500	0.00280	0.295	< 0.00005	0.000100	0.00526	< 0.0001	-
	WQ11	Surface		7/16/2012	0.000160	0.000500	< 0.0005	0.134	0.0000800	< 0.0001	0.00772	< 0.0001	-
	WQ11	Surface		8/13/2012	0.000130	0.000400	0.00240	0.160	< 0.00005	0.000100	0.00790	< 0.0001	-
	WQ11	Surface		9/17/2012	0.000140	0.000200	< 0.0005	0.0740	< 0.00005	< 0.0001	0.00973	< 0.0001	-
	WQ11	Surface		10/15/2012	0.000260	0.000200	0.00210	0.0360	< 0.00005	< 0.0001	0.0114	< 0.0001	-
	WQ11	Surface		11/13/2012	0.000150	< 0.0001	0.000900	0.0760	< 0.00005	< 0.0001	0.00928	< 0.0001	-
	WQ11	Surface		1/13/2013	0.000280	< 0.0001	0.00230	0.0300	< 0.00005	< 0.0001	0.0129	< 0.0001	-
	WQ11	Surface		2/12/2013	0.000360	< 0.0001	0.00330	0.0250	< 0.00005	< 0.0001	0.0123	< 0.0001	-
	WQ11	Surface		4/15/2013	0.000110	0.000580	0.00160	0.243	< 0.00005	0.00220	0.0172	< 0.0001	-
	WQ11	Surface		5/13/2013	0.000160	0.000190	0.00280	0.463	< 0.00005	0.000100	0.00480	< 0.0001	-
	WQ11	Surface		5/22/2013	0.000150	0.000560	0.00160	0.434	< 0.00005	< 0.0001	0.00569	< 0.0001	-
	WQ11	Surface		5/27/2013	0.000150	< 0.00005	< 0.0005	0.498	< 0.00005	0.000100	0.00549	< 0.0001	-
	WQ11	Surface		6/6/2013	0.000170	0.000170	< 0.0005	0.467	< 0.00005	0.000100	0.00591	< 0.0001	-
	WQ11	Surface		6/10/2013	0.000170	< 0.00005	< 0.0005	0.388	< 0.00005	< 0.0001	0.00635	< 0.0001	-
	WQ11	Surface		6/17/2013	0.000170	< 0.00005	0.00140	0.396	< 0.00005	< 0.0001	0.00580	< 0.0001	-
L1762266-2	WQ11	Surface		4/27/2016	0.000186	0.000800	<0.0030	0.430	<0.00010	0.000230	0.00617	<0.00010	<0.000050
L1764648-1	WQ11	Surface		5/3/2016	0.000189	0.000770	<0.0030	0.320	<0.00010	0.000190	0.00573	<0.00010	<0.000050
L1767107-6	WQ11	Surface	Dup	5/9/2016	0.000159	0.000770	<0.0030	0.300	<0.00010	0.000180	0.00581	<0.00010	<0.000050
L1767107-2	WQ11	Surface		5/9/2016	0.000166	0.000760	<0.0030	0.293	<0.00010	0.000190	0.00581	<0.00010	<0.000050
L1770672-5	WQ11	Surface	Dup	5/16/2016	0.000137	0.000600	<0.0030	0.228	<0.00010	0.000160	0.00649	<0.00010	<0.000050
L1770672-1	WQ11	Surface		5/16/2016	0.000134	0.000660	<0.0030	0.223	<0.00010	0.000200	0.00636	<0.00010	<0.000050

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Uranium (U)-Total	Vanadium (V)-Total	Zinc (Zn)-Total	Aluminum (Al)-Dissolved	Antimony (Sb)-Dissolved	Arsenic (As)-Dissolved	Barium (Ba)-Dissolved	Beryllium (Be)-Dissolved	Bismuth (Bi)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1774541-1	WQ11	Surface		5/25/2016	0.000138	0.000750	<0.0030	0.161	<0.00010	0.000170	0.00680	<0.00010	<0.000050
L1788643-1	WQ11	Surface		6/22/2016	0.000201	0.000880	<0.0030	0.325	<0.00010	0.000180	0.00570	<0.00010	<0.000050
L1808945-1	WQ11	Surface		8/3/2016	0.000147	0.000690	<0.0030	0.226	<0.00010	0.000190	0.00776	<0.00010	<0.000050
L1812856-1	WQ11	Surface		8/10/2016	0.000151	0.000690	<0.0030	0.212	<0.00010	0.000180	0.00824	<0.00010	<0.000050
L1815654-1	WQ11	Surface		8/16/2016	0.000112	0.000620	<0.0030	0.141	<0.00010	0.000170	0.00867	<0.00010	<0.000050
L1819041-6	WQ11	Surface		8/23/2016	0.000143	0.000790	<0.0030	0.159	<0.00010	0.000200	0.00812	<0.00010	<0.000050
L1823224-4	WQ11	Surface		8/31/2016	0.000130	0.000650	<0.0030	0.130	<0.00010	0.000200	0.00872	<0.00010	<0.000050
L1826303-3	WQ11	Surface		9/7/2016	0.000155	0.000610	<0.0030	0.148	<0.00010	0.000150	0.00675	<0.00010	<0.000050
	WQ12	Surface		4/19/2011	0.000140	< 0.0001	0.00260	0.0390	< 0.00005	< 0.0001	0.00612	< 0.0001	-
	WQ12	Surface		5/17/2011	0.000230	0.000800	0.00220	0.224	< 0.00005	0.000100	0.00648	< 0.0001	-
	WQ12	Surface		5/24/2011	0.000230	< 0.0001	0.00180	-	< 0.00005	< 0.0001	0.00555	< 0.0001	-
	WQ12	Surface		5/30/2011	0.000240	< 0.0001	0.00320	0.166	< 0.00005	0.000100	0.00490	< 0.0001	-
	WQ12	Surface		6/6/2011	0.000230	0.000100	0.00450	0.117	< 0.00005	0.000100	0.00450	< 0.0001	-
	WQ12	Surface		6/13/2011	0.000250	0.000200	0.00190	0.0940	< 0.00005	0.000200	0.00473	< 0.0001	-
	WQ12	Surface		7/18/2011	0.000230	0.000300	0.00220	0.120	< 0.00005	0.000200	0.00589	< 0.0001	-
	WQ12	Surface		8/15/2011	0.000200	0.000200	0.000600	0.0620	< 0.00005	0.000200	0.00520	< 0.0001	-
	WQ12	Surface		9/19/2011	0.000130	0.000100	0.00360	0.0340	< 0.00005	0.000100	0.00679	< 0.0001	-
	WQ12	Surface		10/17/2011	0.000160	< 0.0001	< 0.0005	0.0590	< 0.00005	0.000100	0.00542	< 0.0001	-
	WQ12	Surface		11/14/2011	0.000170	0.000100	0.00150	0.0500	< 0.00005	0.000200	0.00513	< 0.0001	-
	WQ12	Surface		12/12/2011	0.000180	< 0.0001	< 0.0005	0.0420	< 0.00005	0.000200	0.00645	< 0.0001	-
	WQ12	Surface		1/12/2012	0.000180	< 0.0001	0.00210	0.0330	< 0.00005	0.000200	0.00563	< 0.0001	-
	WQ12	Surface		2/13/2012	0.000170	0.000100	0.00120	0.0240	< 0.00005	0.000100	0.00593	< 0.0001	-
	WQ12	Surface	Dup	3/12/2012	0.000190	< 0.0001	0.00250	0.0210	< 0.00005	0.000200	0.00549	< 0.0001	-
	WQ12	Surface		3/12/2012	0.000240	0.000200	0.00410	0.0200	< 0.00005	0.000100	0.00555	< 0.0001	-
	WQ12	Surface		4/16/2012	0.000150	0.000700	0.000600	0.0890	< 0.00005	0.000200	0.00786	< 0.0001	-
	WQ12	Surface		5/15/2012	0.000220	0.000300	0.00150	0.164	< 0.00005	< 0.0001	0.00585	< 0.0001	-
	WQ12	Surface		5/22/2012	0.000190	0.000100	0.00300	0.152	< 0.00005	< 0.0001	0.00511	< 0.0001	-
	WQ12	Surface		5/28/2012	0.000190	0.000100	0.0120	0.114	< 0.00005	0.000100	0.00518	< 0.0001	-
	WQ12	Surface		6/4/2012	0.000220	< 0.0001	< 0.0005	0.0790	0.0000500	< 0.0001	0.00483	< 0.0001	-
	WQ12	Surface		6/11/2012	0.000180	< 0.0001	0.00110	0.0920	< 0.00005	0.000100	0.00488	< 0.0001	-
	WQ12	Surface		6/18/2012	0.000200	0.000200	0.00390	0.0790	< 0.00005	0.000200	0.00473	< 0.0001	-
	WQ12	Surface		7/16/2012	0.000150	0.000200	0.00110	0.0470	< 0.00005	0.000200	0.00606	< 0.0001	-
	WQ12	Surface		8/13/2012	0.000140	0.000300	0.00420	0.0340	< 0.00005	0.000300	0.00772	< 0.0001	-
	WQ12	Surface		9/17/2012	0.000100	0.000200	< 0.0005	0.0380	< 0.00005	0.000200	0.00827	< 0.0001	-
	WQ12	Surface		10/15/2012	0.0000900	0.000200	0.00240	0.0260	< 0.00005	0.000200	0.00837	< 0.0001	-
	WQ12	Surface		11/13/2012	0.000110	< 0.0001	0.00120	0.0390	< 0.00005	0.000100	0.00625	< 0.0001	-
	WQ12	Surface		1/13/2013	0.000130	< 0.0001	0.00270	0.0480	< 0.00005	0.000200	0.00628	< 0.0001	-
	WQ12	Surface		2/12/2013	0.0000900	< 0.0001	0.00270	0.0270	< 0.00005	< 0.0001	0.00556	< 0.0001	-
	WQ12	Surface		3/11/2013	0.000120	< 0.00005	0.00170	0.0240	< 0.00005	0.000200	0.00508	< 0.0001	-
	WQ12	Surface		4/15/2013	0.000150	< 0.00005	0.00190	0.113	< 0.00005	0.00120	0.0114	< 0.0001	-
	WQ12	Surface		5/13/2013	0.000190	< 0.00005	0.00250	0.130	< 0.00005	0.000100	0.00493	< 0.0001	-
	WQ12	Surface		5/22/2013	0.000180	0.000200	0.00140	0.114	< 0.00005	0.000100	0.00487	< 0.0001	-
	WQ12	Surface		5/27/2013	0.000200	< 0.00005	< 0.0005	0.143	< 0.00005	0.000100	0.00474	< 0.0001	-
	WQ12	Surface		6/6/2013	0.000220	< 0.00005	0.00120	0.115	< 0.00005	0.000100	0.00503	< 0.0001	-

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Uranium (U)-Total	Vanadium (V)-Total	Zinc (Zn)-Total	Aluminum (Al)-Dissolved	Antimony (Sb)-Dissolved	Arsenic (As)-Dissolved	Barium (Ba)-Dissolved	Beryllium (Be)-Dissolved	Bismuth (Bi)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ12	Surface		6/10/2013	0.000220	< 0.00005	0.00150	0.0890	< 0.00005	< 0.0001	0.00530	< 0.0001	-
	WQ12	Surface		6/17/2013	0.000230	< 0.00005	0.00120	0.103	< 0.00005	< 0.0001	0.00500	< 0.0001	-
	WQ13	Surface		4/19/2011	0.000180	< 0.0001	0.00120	0.00200	< 0.00005	< 0.0001	0.00890	< 0.0001	-
	WQ13	Surface		5/17/2011	0.0000900	0.000600	0.00170	0.0410	< 0.00005	0.000400	0.00665	< 0.0001	-
	WQ13	Surface		5/24/2011	0.000100	0.000400	0.00320	-	< 0.00005	0.000400	0.00703	< 0.0001	-
	WQ13	Surface		5/30/2011	0.000100	0.000400	0.00700	0.0460	< 0.00005	0.000500	0.00664	< 0.0001	-
	WQ13	Surface		6/6/2011	0.000110	0.000400	0.00380	0.0450	< 0.00005	0.000400	0.00637	< 0.0001	-
	WQ13	Surface		6/13/2011	0.000100	0.000400	0.00150	0.0300	< 0.00005	0.000400	0.00648	< 0.0001	-
	WQ13	Surface		7/18/2011	0.0000900	0.000600	0.00110	0.0260	0.0000600	0.000600	0.00719	< 0.0001	-
	WQ13	Surface		8/15/2011	0.0000900	0.000300	0.00390	0.00900	< 0.00005	0.000600	0.00668	< 0.0001	-
	WQ13	Surface		9/19/2011	0.000110	0.000300	< 0.0005	0.00600	< 0.00005	0.000600	0.00874	< 0.0001	-
	WQ13	Surface		10/17/2011	0.0000900	0.000200	< 0.0005	0.00700	< 0.00005	0.000600	0.00799	< 0.0001	-
	WQ13	Surface		11/14/2011	0.000100	0.000300	< 0.0005	0.00800	< 0.00005	0.000500	0.00691	< 0.0001	-
	WQ13	Surface		12/13/2011	0.000110	0.000300	< 0.0005	0.00300	< 0.00005	0.000500	0.00771	< 0.0001	-
	WQ13	Surface		1/12/2012	0.000120	0.000300	0.00120	0.0100	< 0.00005	0.000600	0.00808	< 0.0001	-
	WQ13	Surface		2/13/2012	0.000110	0.000200	< 0.0005	< 0.002	< 0.00005	0.000500	0.00759	< 0.0001	-
	WQ13	Surface		3/12/2012	0.000140	0.000200	0.000700	< 0.002	< 0.00005	0.000400	0.00800	< 0.0001	-
	WQ13	Surface		4/16/2012	0.000140	0.000600	< 0.0005	0.0120	< 0.00005	0.000600	0.00905	< 0.0001	-
	WQ13	Surface		5/15/2012	0.000110	0.000500	0.00110	0.0280	< 0.00005	0.000400	0.00710	< 0.0001	-
	WQ13	Surface		5/22/2012	0.0000900	0.000500	< 0.0005	0.0500	< 0.00005	0.000400	0.00666	< 0.0001	-
	WQ13	Surface		5/28/2012	0.0000900	0.000400	0.00120	0.0440	< 0.00005	0.000500	0.00663	< 0.0001	-
	WQ13	Surface		6/4/2012	0.000140	0.000300	< 0.0005	0.0250	< 0.00005	0.000400	0.00631	< 0.0001	-
	WQ13	Surface	Dup	6/11/2012	0.0000800	0.000200	< 0.0005	0.0280	< 0.00005	0.000600	0.00627	< 0.0001	-
	WQ13	Surface		6/11/2012	0.0000800	0.000100	0.0389	0.0260	0.0000600	0.000400	0.00627	< 0.0001	-
	WQ13	Surface		6/18/2012	0.0000900	0.000300	0.00220	0.0200	< 0.00005	0.000500	0.00622	< 0.0001	-
	WQ13	Surface		7/16/2012	0.0000800	0.000400	< 0.0005	0.00500	< 0.00005	0.000600	0.00714	< 0.0001	-
	WQ13	Surface		8/13/2012	0.000100	0.000300	0.0582	< 0.002	< 0.00005	0.000600	0.00752	< 0.0001	-
	WQ13	Surface		9/17/2012	0.000100	0.000200	< 0.0005	0.00300	< 0.00005	0.000500	0.00747	< 0.0001	-
	WQ13	Surface		10/15/2012	0.000110	0.000200	0.00270	0.00300	< 0.00005	0.000500	0.00777	< 0.0001	-
	WQ13	Surface		11/12/2012	0.000110	< 0.0001	0.00110	0.00300	< 0.00005	0.000400	0.00778	< 0.0001	-
	WQ13	Surface		1/15/2013	0.000120	0.000400	0.0128	0.0110	0.0000600	0.000500	0.0114	< 0.0001	-
	WQ13	Surface		5/14/2013	0.0000900	0.000110	0.00250	0.0500	< 0.00005	0.000400	0.00583	< 0.0001	-
	WQ13	Surface		5/22/2013	0.000150	0.000410	0.00150	0.171	< 0.00005	0.000300	0.00423	< 0.0001	-
	WQ13	Surface		5/28/2013	0.0000900	< 0.00005	< 0.0005	0.0470	< 0.00005	0.000400	0.00610	< 0.0001	-
	WQ13	Surface		6/4/2013	0.000100	< 0.00005	0.00100	0.0260	< 0.00005	0.000400	0.00598	< 0.0001	-
	WQ13	Surface		6/10/2013	0.000100	< 0.00005	0.00200	0.0240	< 0.00005	0.000200	0.00653	< 0.0001	-
	WQ13	Surface		6/18/2013	0.0000900	< 0.00005	0.00130	0.0240	0.0000600	< 0.0001	0.00592	< 0.0001	-
L1913531-4	WQ13	Surface	Dup	4/12/2017	0.000118	0.000800	<0.0030	0.00590	<0.00010	0.000500	0.00632	<0.00010	<0.000050
L1913531-2	WQ13	Surface		4/12/2017	0.000112	0.000790	<0.0030	0.00730	<0.00010	0.000480	0.00607	<0.00010	<0.000050
L1926080-1	WQ13	Surface		5/11/2017	0.000109	0.000770	<0.0030	0.0432	<0.00010	0.000570	0.00716	<0.00010	<0.000050
L1939712-11	WQ13	Surface		6/7/2017	0.000119	0.000890	<0.0030	0.0231	<0.00010	0.000560	0.00602	<0.00010	<0.000050
L1964508-2	WQ13	Surface		7/24/2017	0.0000910	0.000570	<0.0030	0.00430	<0.00010	0.000630	0.00682	<0.00010	<0.000050
L1984944-8	WQ13	Surface		8/30/2017	0.000115	0.000510	<0.0030	0.00320	<0.00010	0.000650	0.00641	<0.00010	<0.000050
L1988832-7	WQ13	Surface		9/9/2017	0.0000980	<0.00050	0.00430	0.00310	<0.00010	0.000640	0.00696	<0.00010	<0.000050

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Uranium (U)-Total	Vanadium (V)-Total	Zinc (Zn)-Total	Aluminum (Al)-Dissolved	Antimony (Sb)-Dissolved	Arsenic (As)-Dissolved	Barium (Ba)-Dissolved	Beryllium (Be)-Dissolved	Bismuth (Bi)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2009845-1	WQ13	Surface		10/17/2017	0.000100	<0.00050	<0.0030	0.00530	<0.00010	0.000580	0.00856	<0.00010	<0.000050
L2020333-1	WQ13	Surface		11/7/2017	0.0000980	0.000590	<0.0030	0.0117	<0.00010	0.000540	0.00722	<0.00010	<0.000050
L2034610-4	WQ13	Surface		12/11/2017	0.000109	<0.00050	<0.0030	0.00570	<0.00010	0.000570	0.00719	<0.00010	<0.000050
L2049224-3	WQ13	Surface		1/23/2018	0.000123	0.000560	<0.0030	<0.0030	<0.00010	0.000560	0.00709	<0.00010	<0.000050
L2060442-3	WQ13	Surface		2/23/2018	0.000105	<0.00050	0.00360	<0.0030	<0.00010	0.000540	0.00683	<0.00010	<0.000050
L2074294-7	WQ13	Surface		3/28/2018	0.000136	0.000640	<0.0030	<0.0030	<0.00010	0.000460	0.00741	<0.00010	<0.000050
L2081505-5	WQ13	Surface		4/16/2018	0.000139	0.000570	<0.0030	0.00330	<0.00010	0.000520	0.00752	<0.00010	<0.000050
L2097084-4	WQ13	Surface		5/16/2018	0.000106	0.000780	<0.0030	0.0369	<0.00010	0.000480	0.00564	<0.00010	<0.000050
L2104479-4	WQ13	Surface		5/30/2018	0.0000920	0.000830	<0.0030	0.0213	<0.00010	0.000600	0.00631	<0.00010	<0.000050
L2132986-1	WQ13	Surface		7/18/2018	0.000101	0.000770	<0.0030	0.00430	<0.00010	0.000600	0.00649	<0.00010	<0.000050
L2144782-5	WQ13	Surface		8/9/2018	0.000111	0.000670	<0.0030	0.00660	<0.00010	0.000670	0.00722	<0.00010	<0.000050
L2164448-1	WQ13	Surface		9/12/2018	0.000108	0.000650	<0.0030	0.00700	<0.00010	0.000630	0.00917	<0.00010	<0.000050
L2188218-5	WQ13	Surface		10/26/2018	0.0000980	0.000550	<0.0030	0.00410	<0.00010	0.000520	0.00661	<0.00010	<0.000050
L2203408-5	WQ13	Surface		11/27/2018	0.0000940	<0.00050	<0.0030	0.00860	<0.00010	0.000590	0.00646	<0.00010	<0.000050
L2213684-4	WQ13	Surface		12/19/2018	0.000100	<0.00050	<0.0030	0.00390	<0.00010	0.000630	0.00626	<0.00010	<0.000050
L2227101-4	WQ13	Surface		1/29/2019	0.000103	<0.00050	<0.0030	0.00330	<0.00010	0.000630	0.00633	<0.00010	<0.000050
L2232050-7	WQ13	Surface		2/11/2019	0.000108	<0.00050	<0.0030	<0.0030	<0.00010	0.000540	0.00606	<0.00010	<0.000050
L2245144-2	WQ13	Surface		3/14/2019	0.000119	<0.00050	<0.0030	<0.0030	<0.00010	0.000520	0.00650	<0.00010	<0.000050
L2256054-4	WQ13	Surface		4/9/2019	0.000110	0.000610	<0.0030	0.0184	<0.00010	0.000570	0.00785	<0.00010	<0.000050
L2274397-3	WQ13	Surface		5/14/2019	0.000120	0.000630	<0.0030	0.0368	<0.00010	0.000540	0.00609	<0.00010	<0.000050
L2286702-4	WQ13	Surface		6/4/2019	0.0000920	0.000530	<0.0030	0.0145	<0.00010	0.000530	0.00549	<0.00010	<0.000050
L2312637-2	WQ13	Surface		7/16/2019	0.0000910	<0.00050	<0.0030	0.0132	<0.00010	0.000600	0.00616	<0.00010	<0.000050
L2326388-5	WQ13	Surface		8/8/2019	0.000100	0.000530	<0.0030	0.0354	<0.00010	0.000720	0.00657	<0.00010	<0.000050
L2349445-4	WQ13	Surface		9/16/2019	0.0000950	0.000560	<0.0030	0.00620	<0.00010	0.000650	0.00700	<0.00010	<0.000050
L2372667-4	WQ13	Surface		10/23/2019	0.0000900	0.000520	<0.0030	0.0119	<0.00010	0.000530	0.00631	<0.00010	<0.000050
L2388381-4	WQ13	Surface		11/25/2019	0.0000950	<0.00050	<0.0030	0.0204	<0.00010	0.000550	0.00648	<0.00010	<0.000050
VA19A0791-005	WQ13	Surface	Dup	12/17/2019	0.0000910	<0.00050	<0.0030	0.00850	<0.00010	0.000540	0.00726	<0.000020	<0.000050
VA19A0791-004	WQ13	Surface		12/17/2019	0.0000880	<0.00050	<0.0030	0.00900	<0.00010	0.000560	0.00752	<0.000020	<0.000050
VA20A0960-004	WQ13	Surface		1/27/2020	0.000100	<0.00050	<0.0030	0.00400	<0.00010	0.000580	0.00722	<0.000020	<0.000050
VA20A2126-003	WQ13	Surface		2/19/2020	0.000107	<0.00050	<0.0030	0.00360	<0.00010	0.000540	0.00652	<0.000020	<0.000050
VA20A3691-001	WQ13	Surface		3/18/2020	0.000117	<0.00050	<0.0030	0.00270	<0.00010	0.000500	0.00733	<0.000020	<0.000050
VA20A4555-005	WQ13	Surface		4/7/2020	0.000144	0.00100	<0.0030	0.00360	<0.00010	0.000570	0.00804	<0.000020	<0.000050
VA20A6218-004	WQ13	Surface		5/7/2020	0.0000870	0.000550	<0.0030	0.0353	<0.00010	0.000500	0.00637	<0.000020	<0.000050
VA20A6356-003	WQ13	Surface		5/11/2020	0.0000970	0.000610	<0.0030	0.0424	<0.00010	0.000510	0.00601	<0.000020	<0.000050
VA20A6869-003	WQ13	Surface		5/20/2020	0.000110	0.000580	<0.0030	0.0444	<0.00010	0.000490	0.00621	<0.000020	<0.000050
VA20A7367-003	WQ13	Surface		5/28/2020	0.000114	0.000700	<0.0030	0.0244	<0.00010	0.000500	0.00644	<0.000020	<0.000050
VA20A7797-003	WQ13	Surface		6/3/2020	0.000103	0.000570	<0.0030	0.0200	<0.00010	0.000520	0.00597	<0.000020	<0.000050
VA20B0021-003	WQ13	Surface		7/7/2020	0.0000950	0.000710	<0.0030	0.0195	<0.00010	0.000600	0.00710	<0.000020	<0.000050
VA20B2156-003	WQ13	Surface		8/5/2020	0.000102	0.000610	0.00310	0.00660	<0.00010	0.000660	0.00609	<0.000020	<0.000050
VA20B2542-004	WQ13	Surface		8/11/2020	0.000108	0.000580	<0.0030	0.00540	<0.00010	0.000630	0.00706	<0.000020	<0.000050
VA20B3218-002	WQ13	Surface		8/18/2020	0.0000980	0.000740	0.00360	0.00620	<0.00010	0.000680	0.00678	<0.000020	<0.000050
VA20B3860-003	WQ13	Surface		8/26/2020	0.000106	0.000610	<0.0030	0.00710	<0.00010	0.000710	0.00758	<0.000020	<0.000050
VA20B4313-003	WQ13	Surface		9/1/2020	0.0000920	0.000560	<0.0030	0.00680	<0.00010	0.000700	0.00753	<0.000020	<0.000050
VA20B7828-003	WQ13	Surface		10/8/2020	0.0000990	<0.00050	<0.0030	0.00580	<0.00010	0.000630	0.00745	<0.000020	<0.000050

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Uranium (U)-Total	Vanadium (V)-Total	Zinc (Zn)-Total	Aluminum (Al)-Dissolved	Antimony (Sb)-Dissolved	Arsenic (As)-Dissolved	Barium (Ba)-Dissolved	Beryllium (Be)-Dissolved	Bismuth (Bi)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
VA20C1281-002	WQ13	Surface	Dup	11/18/2020	0.0000870	0.000530	<0.0030	0.0179	<0.00010	0.000560	0.00563	<0.000020	<0.000050
VA20C1281-001	WQ13	Surface		11/18/2020	0.0000930	0.000630	<0.0030	0.0178	<0.00010	0.000560	0.00576	<0.000020	<0.000050
	WQ14	Surface		5/24/2011	0.0000700	0.000300	0.00360	-	< 0.00005	0.000300	0.00879	< 0.0001	-
	WQ14	Surface		5/30/2011	0.0000600	0.000200	0.00510	0.0460	< 0.00005	0.000300	0.00827	< 0.0001	-
	WQ14	Surface		6/6/2011	0.0000600	0.000200	0.00790	0.0270	< 0.00005	0.000300	0.00882	< 0.0001	-
	WQ14	Surface		6/13/2011	0.0000600	0.000200	0.00140	0.0150	< 0.00005	0.000300	0.00908	< 0.0001	-
	WQ14	Surface	Dup	7/18/2011	0.0000700	0.000500	< 0.0005	0.0150	< 0.00005	0.000400	0.00966	< 0.0001	-
	WQ14	Surface		7/18/2011	0.000170	0.00240	0.00230	0.0160	< 0.00005	0.000400	0.00964	< 0.0001	-
	WQ14	Surface		8/15/2011	0.000150	0.000300	0.000700	0.00500	< 0.00005	0.000400	0.0118	< 0.0001	-
	WQ14	Surface		9/19/2011	0.000160	< 0.0001	0.000600	0.00300	< 0.00005	0.000200	0.0126	< 0.0001	-
	WQ14	Surface		10/17/2011	0.000130	< 0.0001	< 0.0005	0.00300	< 0.00005	0.000100	0.0101	< 0.0001	-
	WQ14	Surface	Dup	11/14/2011	0.000150	0.000100	0.000600	0.00300	< 0.00005	0.000200	0.0106	< 0.0001	-
	WQ14	Surface		11/14/2011	0.000140	0.000100	0.00140	0.00300	< 0.00005	0.000200	0.0107	< 0.0001	-
	WQ14	Surface		12/13/2011	0.000240	0.000200	0.00510	0.00800	< 0.00005	0.000200	0.0147	< 0.0001	-
	WQ14	Surface	Dup	1/12/2012	0.000120	0.000300	0.00590	0.00500	< 0.00005	0.000500	0.00757	< 0.0001	-
	WQ14	Surface		1/12/2012	0.000300	0.000200	0.0142	0.00300	< 0.00005	0.000200	0.0144	< 0.0001	-
	WQ14	Surface		4/17/2012	0.000210	0.000400	< 0.0005	0.00900	< 0.00005	0.000300	0.0121	< 0.0001	-
	WQ14	Surface		5/23/2012	< 0.00005	0.000100	0.00150	0.0200	< 0.00005	0.000200	0.00742	< 0.0001	-
	WQ14	Surface		5/28/2012	< 0.00005	0.000100	0.00110	0.0260	< 0.00005	0.000200	0.00775	< 0.0001	-
	WQ14	Surface	Dup	6/4/2012	< 0.00005	< 0.0001	< 0.0005	0.0160	< 0.00005	0.000100	0.00805	< 0.0001	-
	WQ14	Surface		6/4/2012	< 0.00005	< 0.0001	< 0.0005	0.0160	< 0.00005	0.000100	0.00799	< 0.0001	-
	WQ14	Surface		6/11/2012	< 0.00005	< 0.0001	0.000900	0.0130	< 0.00005	0.000200	0.00924	< 0.0001	-
	WQ14	Surface		6/18/2012	0.0000700	0.000300	0.00150	0.0100	< 0.00005	0.000200	0.00959	< 0.0001	-
	WQ14	Surface		7/16/2012	0.0000900	0.000300	0.000500	0.00700	< 0.00005	0.000300	0.0136	< 0.0001	-
	WQ14	Surface		8/13/2012	0.000140	0.000300	0.00130	0.0130	< 0.00005	0.000400	0.0139	< 0.0001	-
	WQ14	Surface		9/17/2012	0.000130	< 0.0001	< 0.0005	0.00400	< 0.00005	0.000200	0.0121	< 0.0001	-
	WQ14	Surface		10/16/2012	0.000130	< 0.0001	0.00220	0.00200	< 0.00005	0.000200	0.0109	< 0.0001	-
	WQ14	Surface		11/12/2012	0.000150	< 0.0001	0.00110	0.00200	< 0.00005	< 0.0001	0.0123	< 0.0001	-
	WQ14	Surface		12/10/2012	0.000270	< 0.0001	0.0416	0.00300	< 0.00005	0.000200	0.0142	< 0.0001	-
	WQ14	Surface		4/16/2013	0.000190	< 0.00005	0.00170	0.0130	< 0.00005	0.000200	0.00975	< 0.0001	-
	WQ14	Surface	Dup	5/14/2013	< 0.00005	< 0.00005	0.00280	0.0280	< 0.00005	0.000200	0.00660	< 0.0001	-
	WQ14	Surface		5/14/2013	< 0.00005	< 0.00005	< 0.0005	0.0290	< 0.00005	0.000200	0.00666	< 0.0001	-
	WQ14	Surface		5/21/2013	< 0.00005	0.000190	0.000600	0.0140	< 0.00005	0.000200	0.00808	< 0.0001	-
	WQ14	Surface		5/28/2013	< 0.00005	< 0.00005	0.00100	0.0190	< 0.00005	0.000200	0.00578	< 0.0001	-
	WQ14	Surface		6/4/2013	< 0.00005	< 0.00005	0.000800	0.0180	< 0.00005	0.000200	0.00789	< 0.0001	-
	WQ14	Surface	Dup	6/11/2013	0.0000500	< 0.00005	< 0.0005	0.00900	< 0.00005	< 0.0001	0.00949	< 0.0001	-
	WQ14	Surface		6/11/2013	0.0000600	< 0.00005	0.000500	0.00800	< 0.00005	< 0.0001	0.00922	< 0.0001	-
	WQ14	Surface		6/18/2013	0.000480	< 0.00005	0.0112	0.0600	0.00737	< 0.0001	0.0866	< 0.0001	-
	WQ15	Surface		9/24/2012	0.000160	< 0.0001	0.00190	0.0420	< 0.00005	0.000200	0.00986	< 0.0001	-
	WQ15	Surface		10/15/2012	0.000150	< 0.0001	0.00410	0.0350	< 0.00005	0.000200	0.00894	< 0.0001	-
	WQ15	Surface		11/13/2012	0.000140	< 0.0001	0.00100	0.0210	< 0.00005	0.000100	0.00826	< 0.0001	-
	WQ15	Surface		1/13/2013	0.000170	< 0.0001	0.00350	0.0260	< 0.00005	0.000200	0.00890	< 0.0001	-
	WQ15	Surface		2/12/2013	0.000150	< 0.0001	0.00420	0.0160	< 0.00005	< 0.0001	0.00794	< 0.0001	-
	WQ15	Surface		3/11/2013	0.000150	< 0.00005	0.00210	0.0140	< 0.00005	0.000200	0.00762	< 0.0001	-

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					Uranium (U)-Total	Vanadium (V)-Total	Zinc (Zn)-Total	Aluminum (Al)-Dissolved	Antimony (Sb)-Dissolved	Arsenic (As)-Dissolved	Barium (Ba)-Dissolved	Beryllium (Be)-Dissolved	Bismuth (Bi)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ15	Surface		4/15/2013	0.000140	< 0.00005	0.00210	0.0150	< 0.00005	0.00130	0.0131	< 0.0001	-
	WQ15	Surface		5/13/2013	0.000160	< 0.00005	0.00260	0.0980	< 0.00005	0.000200	0.00749	< 0.0001	-
	WQ15	Surface		5/22/2013	0.0000900	0.000420	0.00150	0.0300	< 0.00005	0.000400	0.00641	< 0.0001	-
	WQ15	Surface		5/27/2013	0.000150	< 0.00005	< 0.0005	0.0830	< 0.00005	0.000200	0.00733	< 0.0001	-
	WQ15	Surface		6/6/2013	0.000170	< 0.00005	0.00100	0.0790	< 0.00005	0.000200	0.00730	< 0.0001	-
	WQ15	Surface		6/10/2013	0.000200	< 0.00005	0.00140	0.0690	< 0.00005	< 0.0001	0.00809	< 0.0001	-
	WQ15	Surface		6/17/2013	0.000180	< 0.00005	0.00180	0.0690	< 0.00005	< 0.0001	0.00737	< 0.0001	-
	WQ15	Surface		4/13/2014	0.000140	< 0.00005	0.00240	0.0220	< 0.00005	< 0.0001	0.00882	< 0.0001	-
	WQ15	Surface		7/2/2014	0.000170	0.000260	0.00610	0.0380	< 0.00005	0.000200	0.00821	< 0.0001	-
	WQ15	Surface		9/24/2014	0.000110	0.0000800	0.00350	0.0180	< 0.00005	0.000200	0.00985	< 0.0001	-
	WQ15	Surface		12/8/2014	0.000110	0.000340	0.00200	0.0120	< 0.00005	0.000200	0.00828	< 0.0001	-
	WQ16	Surface		9/24/2012	0.000200	< 0.0001	0.00400	0.0200	< 0.00005	0.000400	0.00411	< 0.0001	-
	WQ16	Surface		10/15/2012	0.000200	< 0.0001	0.00280	0.0100	< 0.00005	0.000300	0.00326	< 0.0001	-
	WQ16	Surface		11/13/2012	0.000220	< 0.0001	0.00170	0.00600	0.0000500	0.000300	0.00340	< 0.0001	-
	WQ16	Surface		1/13/2013	0.000290	< 0.0001	0.00900	0.00500	0.0000500	0.000400	0.00354	< 0.0001	-
	WQ16	Surface		2/12/2013	0.000220	< 0.0001	0.00330	0.00600	< 0.00005	0.000300	0.00374	< 0.0001	-
	WQ16	Surface		3/11/2013	0.000940	0.000260	0.00630	0.00700	0.0000800	0.000500	0.00343	< 0.0001	-
	WQ16	Surface		4/15/2013	0.000250	< 0.00005	0.00370	0.0190	0.0000500	0.00120	0.00891	< 0.0001	-
	WQ16	Surface		5/13/2013	0.000220	< 0.00005	0.00290	0.0550	< 0.00005	0.000400	0.00320	< 0.0001	-
	WQ16	Surface		5/22/2013	0.000150	0.000110	0.00180	0.0770	< 0.00005	0.000100	0.00776	< 0.0001	-
	WQ16	Surface		5/27/2013	0.000270	< 0.00005	< 0.0005	0.0280	< 0.00005	0.000300	0.00277	< 0.0001	-
	WQ16	Surface		6/6/2013	0.000310	< 0.00005	0.00110	0.0250	< 0.00005	0.000300	0.00253	< 0.0001	-
	WQ16	Surface		6/10/2013	0.000700	< 0.00005	< 0.0005	0.0210	< 0.00005	0.000100	0.00279	< 0.0001	-
	WQ16	Surface		6/17/2013	0.000300	< 0.00005	0.00130	0.0320	0.0000600	< 0.0001	0.00265	< 0.0001	-
	WQ16	Surface		4/13/2014	0.000260	< 0.00005	0.00350	0.00900	< 0.00005	0.000300	0.00337	< 0.0001	-
	WQ16	Surface		7/2/2014	0.000290	0.000300	0.00180	0.0190	< 0.00005	0.000400	0.00300	< 0.0001	-
	WQ16	Surface		9/24/2014	0.000160	0.000200	0.00260	0.0370	< 0.00005	0.000300	0.00390	< 0.0001	-
	WQ16	Surface		12/8/2014	0.000230	0.000330	0.00150	0.00700	< 0.00005	0.000400	0.00354	< 0.0001	-
	WQ17	Surface		12/12/2011	0.0000800	0.000100	< 0.0005	0.0290	< 0.00005	0.000300	0.00676	< 0.0001	-
	WQ17	Surface		3/12/2012	0.000100	< 0.0001	0.00160	0.0150	< 0.00005	0.000300	0.00739	< 0.0001	-
	WQ17	Surface	Dup	6/18/2012	0.000160	0.000200	0.00370	0.153	< 0.00005	0.000600	0.00330	< 0.0001	-
	WQ17	Surface		6/18/2012	0.000190	0.000300	0.00190	0.170	< 0.00005	0.000500	0.00313	< 0.0001	-
	WQ17	Surface	Dup	9/17/2012	0.0000700	0.000200	0.00100	0.0260	< 0.00005	0.000400	0.00664	< 0.0001	-
	WQ17	Surface		9/17/2012	0.0000700	0.000200	0.00260	0.0290	< 0.00005	0.000400	0.00650	< 0.0001	-
	WQ17	Surface		1/13/2013	0.0000900	< 0.0001	0.00240	0.0210	< 0.00005	0.000300	0.00749	< 0.0001	-
	WQ18	Surface		12/12/2011	0.000110	0.00110	0.00170	0.00200	< 0.00005	0.000400	0.00565	< 0.0001	-
	WQ18	Surface		3/12/2012	0.000140	0.00130	0.00490	< 0.002	< 0.00005	0.000400	0.00565	< 0.0001	-
	WQ18	Surface		6/19/2012	0.0000600	0.00130	0.00200	0.0390	< 0.00005	0.000400	0.00378	< 0.0001	-
	WQ18	Surface		9/18/2012	0.000110	0.00150	0.000600	0.00400	< 0.00005	0.000500	0.00473	< 0.0001	-
	WQ18	Surface		1/16/2013	0.000220	0.00690	0.146	0.0130	0.0000800	0.000400	0.00738	< 0.0001	-
	WQ19	Surface		6/18/2012	0.000260	0.000800	0.00240	0.00600	< 0.00005	0.000400	0.00844	< 0.0001	-
	WQ19	Surface		9/17/2012	0.00350	0.000800	0.000600	0.00200	< 0.00005	0.000500	0.00956	< 0.0001	-
	WQ19	Surface		12/10/2012	0.000300	0.000300	0.00210	< 0.002	0.0000500	0.000400	0.00875	< 0.0001	-
	WQ26	Surface		1/13/2013	0.000270	< 0.0001	0.00210	0.00900	< 0.00005	0.000400	0.00868	< 0.0001	-

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					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ26	Surface		2/12/2013	0.000220	< 0.0001	0.00400	0.00700	< 0.00005	0.000300	0.00811	< 0.0001	-
	WQ26	Surface		3/11/2013	0.000280	< 0.00005	0.00290	0.00500	< 0.00005	0.000500	0.00786	< 0.0001	-
	WQ26	Surface		4/15/2013	0.000160	< 0.00005	0.00120	0.0180	< 0.00005	0.00370	0.0216	< 0.0001	-
	WQ26	Surface		5/13/2013	0.000160	0.000170	0.00280	0.241	< 0.00005	0.000300	0.00404	< 0.0001	-
	WQ26	Surface		5/22/2013	0.000230	< 0.00005	0.00150	0.0200	< 0.00005	0.000300	0.00283	< 0.0001	-
	WQ26	Surface		5/27/2013	0.000160	< 0.00005	0.000600	0.213	< 0.00005	0.000300	0.00404	< 0.0001	-
	WQ26	Surface		6/6/2013	0.000170	< 0.00005	0.00100	0.166	< 0.00005	0.000300	0.00422	< 0.0001	-
	WQ26	Surface		6/10/2013	0.000160	< 0.00005	0.00130	0.0980	< 0.00005	0.000100	0.00480	< 0.0001	-
	WQ26	Surface		6/17/2013	0.000150	< 0.00005	0.00240	0.113	< 0.00005	< 0.0001	0.00460	< 0.0001	-
L1762266-6	WQ26	Surface	Dup	4/27/2016	0.000201	0.000780	<0.0030	0.169	<0.00010	0.000460	0.00496	<0.00010	<0.000050
L1762266-3	WQ26	Surface		4/27/2016	0.000197	0.000710	<0.0030	0.143	<0.00010	0.000400	0.00437	<0.00010	<0.000050
L1764648-3	WQ26	Surface	Dup	5/3/2016	0.000188	0.000530	0.00340	0.160	<0.00010	0.000430	0.00461	<0.00010	<0.000050
L1764648-2	WQ26	Surface		5/3/2016	0.000201	0.000590	<0.0030	0.135	<0.00010	0.000440	0.00477	<0.00010	<0.000050
L1767107-3	WQ26	Surface		5/9/2016	0.000162	0.000530	<0.0030	0.107	<0.00010	0.000460	0.00453	<0.00010	<0.000050
L1770672-3	WQ26	Surface		5/16/2016	0.000152	0.000520	<0.0030	0.0717	<0.00010	0.000470	0.00507	<0.00010	<0.000050
L1774541-2	WQ26	Surface		5/25/2016	0.000146	0.000720	<0.0030	0.0583	<0.00010	0.000500	0.00537	<0.00010	<0.000050
L1788643-2	WQ26	Surface		6/22/2016	0.000172	0.000570	<0.0030	0.0791	<0.00010	0.000510	0.00466	<0.00010	<0.000050
L1808945-2	WQ26	Surface	Dup	8/3/2016	0.000129	0.000560	<0.0030	0.0439	<0.00010	0.000580	0.00695	<0.00010	<0.000050
L1808945-6	WQ26	Surface		8/3/2016	0.000131	0.000560	<0.0030	0.0453	<0.00010	0.000610	0.00737	<0.00010	<0.000050
L1812856-2	WQ26	Surface		8/10/2016	0.000125	0.000560	<0.0030	0.0363	<0.00010	0.000660	0.00779	<0.00010	<0.000050
L1815654-2	WQ26	Surface		8/16/2016	0.000129	0.000580	<0.0030	0.0248	<0.00010	0.000660	0.00813	<0.00010	<0.000050
L1819041-4	WQ26	Surface	Dup	8/23/2016	0.000122	0.000650	<0.0030	0.0264	<0.00010	0.000610	0.00765	<0.00010	<0.000050
L1819041-8	WQ26	Surface		8/23/2016	0.000122	0.000660	0.00340	0.0278	<0.00010	0.000630	0.00741	<0.00010	<0.000050
L1823224-5	WQ26	Surface		8/31/2016	0.000119	0.000580	<0.0030	0.0271	<0.00010	0.000700	0.00811	<0.00010	<0.000050
L1826303-5	WQ26	Surface		9/7/2016	0.000136	<0.00050	<0.0030	0.0349	<0.00010	0.000570	0.00659	<0.00010	<0.000050
L1913531-5	WQ26	Surface		4/12/2017	0.000203	0.000650	<0.0030	0.00760	<0.00010	0.000460	0.00821	<0.00010	<0.000050
L1926080-2	WQ26	Surface		5/11/2017	0.000167	0.000780	<0.0030	0.203	<0.00010	0.000480	0.00645	<0.00010	<0.000050
L1928943-5	WQ26	Surface	Dup	5/17/2017	0.000141	0.000640	<0.0030	0.169	<0.00010	0.000400	0.00517	<0.00010	<0.000050
L1928943-1	WQ26	Surface		5/17/2017	0.000147	0.000580	<0.0030	0.166	<0.00010	0.000380	0.00519	<0.00010	<0.000050
L1932034-3	WQ26	Surface		5/24/2017	0.000248	0.00101	<0.0030	0.199	<0.00010	0.000420	0.00472	<0.00010	<0.000050
L1935151-5	WQ26	Surface	Dup	5/30/2017	0.000213	0.000670	<0.0030	0.175	<0.00010	0.000450	0.00411	<0.00010	<0.000050
L1935151-1	WQ26	Surface		5/30/2017	0.000208	0.000660	0.00500	0.171	<0.00010	0.000470	0.00423	<0.00010	<0.000050
L1939712-4	WQ26	Surface	Dup	6/7/2017	0.000190	0.000820	<0.0030	0.120	<0.00010	0.000450	0.00482	<0.00010	<0.000050
L1939712-3	WQ26	Surface		6/7/2017	0.000195	0.000790	0.00310	0.115	<0.00010	0.000430	0.00477	<0.00010	<0.000050
L1964508-1	WQ26	Surface		7/24/2017	0.000132	0.000640	<0.0030	0.0210	<0.00010	0.000530	0.00769	<0.00010	<0.000050
L1984944-4	WQ26	Surface		8/30/2017	0.000218	<0.00050	<0.0060	0.00960	<0.00010	0.000540	0.00966	<0.00010	<0.000050
L1988190-3	WQ26	Surface		9/6/2017	0.000182	0.000760	<0.0030	0.0117	<0.00010	0.000620	0.00983	<0.00010	<0.000050
L1991279-3	WQ26	Surface		9/13/2017	0.000179	<0.00050	<0.0030	0.00880	<0.00010	0.000590	0.00862	<0.00010	<0.000050
L1995655-1	WQ26	Surface		9/21/2017	0.000152	<0.00050	<0.0030	0.0104	<0.00010	0.000530	0.00803	<0.00010	<0.000050
L1999769-1	WQ26	Surface		9/28/2017	0.000159	<0.00050	<0.0030	0.00940	<0.00010	0.000570	0.00913	<0.00010	<0.000050
L2009845-5	WQ26	Surface		10/17/2017	0.000159	0.00114	<0.0030	0.0458	<0.00010	0.000630	0.00594	<0.00010	<0.000050
L2020333-5	WQ26	Surface		11/7/2017	0.000127	0.000570	<0.0030	0.0494	<0.00010	0.000480	0.00631	<0.00010	<0.000050
L2035356-3	WQ26	Surface		12/12/2017	0.000146	0.000510	<0.0030	0.0254	<0.00010	0.000480	0.00651	<0.00010	<0.000050
L2049678-3	WQ26	Surface		1/24/2018	0.000171	0.000630	<0.0030	0.0143	<0.00010	0.000510	0.00750	<0.00010	<0.000050

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					Uranium (U)-Total	Vanadium (V)-Total	Zinc (Zn)-Total	Aluminum (Al)-Dissolved	Antimony (Sb)-Dissolved	Arsenic (As)-Dissolved	Barium (Ba)-Dissolved	Beryllium (Be)-Dissolved	Bismuth (Bi)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2057605-1	WQ26	Surface		2/14/2018	0.000192	0.000540	0.00890	0.0114	<0.00010	0.000510	0.00752	<0.00010	<0.000050
L2074294-4	WQ26	Surface		3/28/2018	0.000220	<0.00050	<0.0030	0.00640	<0.00010	0.000420	0.00661	<0.00010	<0.000050
L2081503-5	WQ26	Surface		4/17/2018	0.000216	<0.00050	<0.0030	0.00880	<0.00010	0.000500	0.00801	<0.00010	<0.000050
L2097084-5	WQ26	Surface		5/16/2018	0.000265	0.00143	<0.0030	0.172	<0.00010	0.000380	0.00365	<0.00010	<0.000050
L2103632-4	WQ26	Surface		5/29/2018	0.000175	0.000710	<0.0030	0.0971	<0.00010	0.000410	0.00417	<0.00010	<0.000050
L2132986-5	WQ26	Surface		7/18/2018	0.000120	0.000730	<0.0030	0.0185	<0.00010	0.000550	0.00741	<0.00010	<0.000050
L2143640-4	WQ26	Surface	Dup	8/7/2018	0.000130	0.000690	<0.0030	0.0176	<0.00010	0.000630	0.00796	<0.00010	<0.000050
L2143640-3	WQ26	Surface		8/7/2018	0.000131	0.000640	<0.0030	0.0180	<0.00010	0.000650	0.00799	<0.00010	<0.000050
L2156026-1	WQ26	Surface		8/28/2018	0.000182	0.000520	<0.0030	0.0117	<0.00010	0.000680	0.0100	<0.00010	<0.000050
L2159605-1	WQ26	Surface		9/4/2018	0.000193	<0.00050	0.00340	0.00940	<0.00010	0.000600	0.00836	<0.00010	<0.000050
L2160840-4	WQ26	Surface	Dup	9/7/2018	0.000181	0.000700	<0.0030	0.0102	<0.00010	0.000620	0.00941	<0.00010	<0.000050
L2160840-1	WQ26	Surface		9/7/2018	0.000181	0.000830	<0.0030	0.00880	<0.00010	0.000630	0.00941	<0.00010	<0.000050
L2163669-3	WQ26	Surface		9/11/2018	0.000176	0.000570	<0.0030	0.00970	<0.00010	0.000630	0.00874	<0.00010	<0.000050
L2188218-4	WQ26	Surface		10/26/2018	0.000120	<0.00050	<0.0030	0.0174	<0.00010	0.000500	0.00622	<0.00010	<0.000050
L2203408-1	WQ26	Surface		11/27/2018	0.000119	<0.00050	<0.0030	0.0436	<0.00010	0.000500	0.00563	<0.00010	<0.000050
L2213246-2	WQ26	Surface		12/18/2018	0.000138	0.000550	<0.0030	0.0196	<0.00010	0.000520	0.00679	<0.00010	<0.000050
L2227701-2	WQ26	Surface		1/30/2019	0.000148	0.000520	<0.0030	0.0126	<0.00010	0.000480	0.00729	<0.00010	<0.000050
L2232050-1	WQ26	Surface		2/11/2019	0.000194	<0.00050	<0.0030	0.0105	<0.00010	0.000490	0.00746	<0.00010	<0.000050
L2244756-5	WQ26	Surface	Dup	3/13/2019	0.000274	<0.00050	<0.0030	0.00720	<0.00010	0.000470	0.00806	<0.00010	<0.000050
L2244756-2	WQ26	Surface		3/13/2019	0.000261	<0.00050	<0.0030	0.00690	<0.00010	0.000500	0.00802	<0.00010	<0.000050
L2256053-2	WQ26	Surface		4/8/2019	0.000160	<0.00050	<0.0030	0.0444	<0.00010	0.000540	0.00623	<0.00010	<0.000050
L2269368-2	WQ26	Surface		5/4/2019	0.000150	0.000670	<0.0030	0.144	<0.00010	0.000490	0.00504	<0.00010	<0.000050
L2273497-4	WQ26	Surface		5/13/2019	0.000210	0.000780	<0.0030	0.164	<0.00010	0.000420	0.00437	<0.00010	<0.000050
L2277964-7	WQ26	Surface		5/21/2019	0.000218	0.00137	<0.0030	0.216	<0.00010	0.000470	0.00533	<0.00010	<0.000050
L2282975-2	WQ26	Surface		5/29/2019	0.000191	0.000640	<0.0030	0.111	<0.00010	0.000430	0.00466	<0.00010	<0.000050
L2285579-2	WQ26	Surface		6/3/2019	0.000160	0.000510	<0.0030	0.0879	<0.00010	0.000450	0.00497	<0.00010	<0.000050
L2312637-3	WQ26	Surface		7/16/2019	0.000145	0.000540	<0.0030	0.0770	<0.00010	0.000490	0.00530	<0.00010	<0.000050
L2326388-3	WQ26	Surface		8/8/2019	0.000137	<0.00050	<0.0030	0.0680	<0.00010	0.000540	0.00621	<0.00010	<0.000050
L2349445-7	WQ26	Surface	Dup	9/16/2019	0.000115	0.000530	<0.0030	0.0292	<0.00010	0.000580	0.00660	<0.00010	<0.000050
L2349445-5	WQ26	Surface		9/16/2019	0.000115	0.000520	<0.0030	0.0288	<0.00010	0.000550	0.00649	<0.00010	<0.000050
L2371052-6	WQ26	Surface	Dup	10/22/2019	0.000123	<0.00050	<0.0030	0.0722	<0.00010	0.000470	0.00597	<0.00010	<0.000050
L2371052-4	WQ26	Surface		10/22/2019	0.000127	<0.00050	<0.0030	0.0731	<0.00010	0.000490	0.00603	<0.00010	<0.000050
L2383392-2	WQ26	Surface		11/14/2019	0.000129	0.000690	<0.0030	0.0775	<0.00010	0.000430	0.00475	<0.00010	<0.000050
VA19A0726-001	WQ26	Surface		12/16/2019	0.000120	<0.00050	<0.0030	0.0474	<0.00010	0.000410	0.00503	<0.000020	<0.000050
VA20A0688-002	WQ26	Surface		1/21/2020	0.000126	<0.00050	<0.0030	0.0262	<0.00010	0.000430	0.00664	<0.000020	<0.000050
VA20A1887-002	WQ26	Surface		2/13/2020	0.000160	<0.00050	<0.0030	0.0139	<0.00010	0.000440	0.00670	<0.000100	<0.000050
VA20A3516-002	WQ26	Surface		3/16/2020	0.000193	0.000520	<0.0030	0.0106	<0.00010	0.000460	0.00779	<0.000020	<0.000050
VA20A4555-001	WQ26	Surface		4/7/2020	0.000197	0.000570	<0.0030	0.00980	<0.00010	0.000480	0.00787	<0.000020	<0.000050
VA20A6574-003	WQ26	Surface		5/14/2020	0.000159	0.000670	0.00350	0.167	<0.00010	0.000380	0.00463	0.0000310	<0.000050
VA20B2156-002	WQ26	Surface		8/5/2020	0.000125	<0.00050	<0.0030	0.0248	<0.00010	0.000560	0.00719	<0.000020	<0.000050
VA20C1166-003	WQ26	Surface		11/17/2020	0.000158	0.000610	<0.0030	0.0954	<0.00010	0.000420	0.00504	0.0000230	<0.000050
	WQ27	Surface		4/13/2014	0.000270	<0.00005	0.00300	0.0100	<0.00005	0.000300	0.00678	<0.0001	-
	WQ27	Surface		7/2/2014	0.000130	0.000670	0.00150	0.0480	<0.00005	0.000400	0.00572	<0.0001	-
	WQ27	Surface		9/24/2014	0.000310	0.000300	0.00240	0.00900	<0.00005	0.000500	0.0101	<0.0001	-

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					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ27	Surface		12/9/2014	0.000240	0.000690	0.00250	0.00200	<0.00005	0.000500	0.00747	<0.0001	-
L1762266-4	WQ27	Surface		4/27/2016	0.000181	0.000510	<0.0030	0.193	<0.00010	0.000430	0.00485	<0.00010	<0.000050
L1764648-6	WQ27	Surface		5/3/2016	0.000174	0.000520	<0.0030	0.149	<0.00010	0.000390	0.00424	<0.00010	<0.000050
L1767107-4	WQ27	Surface		5/9/2016	0.000172	<0.00050	<0.0030	0.130	<0.00010	0.000420	0.00421	<0.00010	<0.000050
L1770672-4	WQ27	Surface		5/16/2016	0.000159	<0.00050	<0.0030	0.0828	<0.00010	0.000420	0.00400	<0.00010	<0.000050
L1774541-3	WQ27	Surface		5/25/2016	0.000163	0.000650	<0.0030	0.0814	<0.00010	0.000460	0.00473	<0.00010	<0.000050
L1788643-6	WQ27	Surface	Dup	6/22/2016	0.000191	0.000530	<0.0030	0.102	<0.00010	0.000490	0.00456	<0.00010	<0.000050
L1788643-3	WQ27	Surface		6/22/2016	0.000187	0.000530	<0.0030	0.101	<0.00010	0.000490	0.00443	<0.00010	<0.000050
L1808945-3	WQ27	Surface		8/3/2016	0.000144	0.000510	<0.0030	0.0599	<0.00010	0.000600	0.00629	<0.00010	<0.000050
L1812856-3	WQ27	Surface		8/10/2016	0.000129	<0.00050	<0.0030	0.0489	<0.00010	0.000650	0.00720	<0.00010	<0.000050
L1815654-3	WQ27	Surface		8/16/2016	0.000141	0.000530	<0.0030	0.0344	<0.00010	0.000700	0.00780	<0.00010	<0.000050
L1819041-10	WQ27	Surface		8/23/2016	0.000135	0.000550	<0.0030	0.0390	<0.00010	0.000690	0.00665	<0.00010	<0.000050
L1823224-6	WQ27	Surface		8/31/2016	0.000136	0.000540	<0.0030	0.0426	<0.00010	0.000740	0.00724	<0.00010	<0.000050
L1826303-2	WQ27	Surface		9/7/2016	0.000141	<0.00050	<0.0030	0.0532	<0.00010	0.000650	0.00591	<0.00010	<0.000050
L1913006-2	WQ27	Surface		4/11/2017	0.000259	<0.00050	<0.0030	0.0138	<0.00010	0.000490	0.00806	<0.00010	<0.000050
L1925486-3	WQ27	Surface		5/10/2017	0.000143	0.000540	<0.0030	0.202	<0.00010	0.000430	0.00594	<0.00010	<0.000050
L1928943-2	WQ27	Surface		5/17/2017	0.000145	0.000520	<0.0030	0.193	<0.00010	0.000410	0.00542	<0.00010	<0.000050
L1932034-2	WQ27	Surface		5/24/2017	0.000224	0.000760	<0.0030	0.211	<0.00010	0.000400	0.00493	<0.00010	<0.000050
L1935151-2	WQ27	Surface		5/30/2017	0.000202	0.000590	<0.0030	0.190	<0.00010	0.000450	0.00400	<0.00010	<0.000050
L1939712-2	WQ27	Surface		6/7/2017	0.000201	0.000660	<0.0030	0.138	<0.00010	0.000460	0.00457	<0.00010	<0.000050
L1961670-3	WQ27	Surface		7/18/2017	0.000139	<0.00050	<0.0030	0.0275	<0.00010	0.000570	0.00649	<0.00010	<0.000050
L1984944-3	WQ27	Surface		8/30/2017	0.000267	<0.00050	<0.0060	0.0113	<0.00010	0.000540	0.00988	<0.00010	<0.000050
L1988832-2	WQ27	Surface		9/8/2017	0.000204	<0.00050	<0.0030	0.0143	<0.00010	0.000620	0.00942	<0.00010	<0.000050
L1991279-2	WQ27	Surface	Dup	9/13/2017	0.000203	<0.00050	<0.0030	0.0130	<0.00010	0.000610	0.00833	<0.00010	<0.000050
L1991279-6	WQ27	Surface		9/13/2017	0.000201	<0.00050	<0.0030	0.0132	<0.00010	0.000590	0.00821	<0.00010	<0.000050
L1995655-2	WQ27	Surface		9/21/2017	0.000129	<0.00050	0.00360	0.0197	<0.00010	0.000620	0.00702	<0.00010	<0.000050
L1999769-2	WQ27	Surface		9/28/2017	0.000177	<0.00050	<0.0030	0.0143	<0.00010	0.000570	0.00834	<0.00010	<0.000050
L2011329-3	WQ27	Surface		10/19/2017	0.000181	0.000540	0.00440	0.0832	<0.00010	0.000600	0.00553	<0.00010	<0.000050
L2020946-2	WQ27	Surface		11/8/2017	0.000157	<0.00050	<0.0030	0.0637	<0.00010	0.000470	0.00535	<0.00010	<0.000050
L2035356-2	WQ27	Surface		12/12/2017	0.000149	0.000500	<0.0030	0.0424	<0.00010	0.000510	0.00598	<0.00010	<0.000050
L2049678-4	WQ27	Surface		1/24/2018	0.000209	0.000560	<0.0030	0.0208	<0.00010	0.000530	0.00694	<0.00010	<0.000050
L2057605-2	WQ27	Surface		2/14/2018	0.000210	<0.00050	0.00530	0.0153	<0.00010	0.000530	0.00680	<0.00010	<0.000050
L2074294-5	WQ27	Surface		3/28/2018	0.000235	<0.00050	<0.0030	0.00980	<0.00010	0.000460	0.00633	<0.00010	<0.000050
L2081503-6	WQ27	Surface		4/17/2018	0.000223	<0.00050	<0.0030	0.0127	<0.00010	0.000470	0.00691	<0.00010	<0.000050
L2093061-1	WQ27	Surface		5/9/2018	0.000278	0.00150	<0.0030	0.293	<0.00010	0.000400	0.00549	<0.00010	<0.000050
L2097084-6	WQ27	Surface		5/16/2018	0.000216	0.000990	<0.0030	0.185	<0.00010	0.000350	0.00375	<0.00010	<0.000050
L2100419-3	WQ27	Surface	Dup	5/23/2018	0.000191	0.000570	<0.0030	0.145	<0.00010	0.000380	0.00360	<0.00010	<0.000050
L2100419-1	WQ27	Surface		5/23/2018	0.000193	0.000550	<0.0030	0.146	<0.00010	0.000400	0.00365	<0.00010	<0.000050
L2103632-5	WQ27	Surface		5/29/2018	0.000177	0.000670	<0.0030	0.121	<0.00010	0.000430	0.00390	<0.00010	<0.000050
L2106738-3	WQ27	Surface	Dup	6/4/2018	0.000185	<0.00050	<0.0030	0.105	<0.00010	0.000390	0.00388	<0.00010	<0.000050
L2106738-1	WQ27	Surface		6/4/2018	0.000168	0.000510	<0.0030	0.108	<0.00010	0.000380	0.00401	<0.00010	<0.000050
L2132986-4	WQ27	Surface		7/18/2018	0.000130	0.000670	<0.0030	0.0272	<0.00010	0.000560	0.00671	<0.00010	<0.000050
L2143640-8	WQ27	Surface		8/7/2018	0.000145	0.000590	<0.0030	0.0291	<0.00010	0.000670	0.00773	<0.00010	<0.000050
L2156026-4	WQ27	Surface	Dup	8/28/2018	0.000212	<0.00050	<0.0030	0.0153	<0.00010	0.000650	0.00956	<0.00010	<0.000050

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Uranium (U)-Total	Vanadium (V)-Total	Zinc (Zn)-Total	Aluminum (Al)-Dissolved	Antimony (Sb)-Dissolved	Arsenic (As)-Dissolved	Barium (Ba)-Dissolved	Beryllium (Be)-Dissolved	Bismuth (Bi)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2156026-2	WQ27	Surface		8/28/2018	0.000212	<0.00050	<0.0030	0.0190	<0.00010	0.000600	0.00942	<0.00010	0.0000760
L2159605-2	WQ27	Surface		9/4/2018	0.000232	<0.00050	<0.0030	0.0117	<0.00010	0.000610	0.00807	<0.00010	<0.000050
L2160840-2	WQ27	Surface		9/7/2018	0.000212	0.000680	<0.0030	0.0119	<0.00010	0.000590	0.00904	<0.00010	<0.000050
L2163669-4	WQ27	Surface		9/11/2018	0.000179	<0.00050	<0.0030	0.0132	<0.00010	0.000580	0.00814	<0.00010	<0.000050
L2188218-3	WQ27	Surface		10/26/2018	0.000136	<0.00050	<0.0030	0.0275	<0.00010	0.000430	0.00544	<0.00010	<0.000050
L2204508-6	WQ27	Surface	Dup	11/29/2018	0.000127	0.000640	<0.0030	0.0612	<0.00010	0.000500	0.00541	<0.00010	<0.000050
L2204508-4	WQ27	Surface		11/29/2018	0.000124	0.000650	<0.0030	0.0623	<0.00010	0.000500	0.00541	<0.00010	<0.000050
L2213246-3	WQ27	Surface		12/18/2018	0.000152	0.000520	<0.0030	0.0298	<0.00010	0.000470	0.00595	<0.00010	<0.000050
L2227701-3	WQ27	Surface		1/30/2019	0.000169	<0.00050	<0.0030	0.0177	<0.00010	0.000490	0.00665	<0.00010	<0.000050
L2232050-2	WQ27	Surface		2/11/2019	0.000228	<0.00050	<0.0030	0.0141	<0.00010	0.000450	0.00685	<0.00010	<0.000050
L2244756-3	WQ27	Surface		3/13/2019	0.000316	<0.00050	<0.0030	0.0110	<0.00010	0.000480	0.00778	<0.00010	<0.000050
L2256053-3	WQ27	Surface		4/8/2019	0.000150	<0.00050	<0.0030	0.0390	<0.00010	0.000540	0.00647	<0.00010	<0.000050
L2269368-3	WQ27	Surface		5/4/2019	0.000145	0.000550	<0.0030	0.179	<0.00010	0.000510	0.00481	<0.00010	<0.000050
L2274397-1	WQ27	Surface		5/14/2019	0.000178	<0.00050	<0.0030	0.175	<0.00010	0.000430	0.00444	<0.00010	<0.000050
L2277964-6	WQ27	Surface		5/21/2019	0.000212	0.00115	<0.0030	0.246	<0.00010	0.000470	0.00504	<0.00010	<0.000050
L2282975-3	WQ27	Surface		5/29/2019	0.000189	<0.00050	<0.0030	0.138	<0.00010	0.000460	0.00423	<0.00010	<0.000050
L2285579-3	WQ27	Surface		6/3/2019	0.000164	<0.00050	<0.0030	0.116	<0.00010	0.000470	0.00460	<0.00010	<0.000050
L2312637-4	WQ27	Surface		7/16/2019	0.000146	<0.00050	<0.0030	0.0994	<0.00010	0.000490	0.00512	<0.00010	<0.000050
L2326388-2	WQ27	Surface		8/8/2019	0.000147	<0.00050	<0.0030	0.0985	<0.00010	0.000560	0.00609	<0.00010	<0.000050
L2350223-2	WQ27	Surface		9/17/2019	0.000141	<0.00050	<0.0030	0.0547	<0.00010	0.000620	0.00586	<0.00010	<0.000050
L2372667-2	WQ27	Surface		10/23/2019	0.000130	0.000520	<0.0030	0.0877	<0.00010	0.000420	0.00475	<0.00010	<0.000050
L2383392-3	WQ27	Surface		11/14/2019	0.000138	0.000610	<0.0030	0.109	<0.00010	0.000430	0.00442	<0.00010	<0.000050
VA19A0726-002	WQ27	Surface		12/16/2019	0.000142	<0.00050	<0.0030	0.0644	<0.00010	0.000410	0.00462	<0.00020	<0.000050
VA20A0812-002	WQ27	Surface		1/23/2020	0.000160	<0.00050	<0.0030	0.0372	<0.00010	0.000450	0.00633	<0.00020	<0.000050
VA20A1887-005	WQ27	Surface		2/13/2020	0.000173	<0.00050	<0.0030	0.0244	<0.00010	0.000480	0.00647	<0.000100	<0.000050
VA20A3516-003	WQ27	Surface		3/16/2020	0.000213	<0.00050	<0.0030	0.0182	<0.00010	0.000450	0.00711	<0.00020	<0.000050
VA20A4369-002	WQ27	Surface		4/1/2020	0.000212	<0.00050	<0.0030	0.0166	<0.00010	0.000430	0.00734	<0.00020	<0.000050
L1913006-4	WQ28	Surface		4/11/2017	0.000261	<0.00050	<0.0030	0.0161	<0.00010	0.000520	0.00776	<0.00010	<0.000050
L1925486-2	WQ28	Surface		5/10/2017	0.000143	0.000530	<0.0030	0.210	<0.00010	0.000430	0.00592	<0.00010	<0.000050
L1928943-3	WQ28	Surface		5/17/2017	0.000140	0.000550	<0.0030	0.196	<0.00010	0.000420	0.00569	<0.00010	<0.000050
L1932034-4	WQ28	Surface	Dup	5/24/2017	0.000223	0.000760	<0.0030	0.232	<0.00010	0.000450	0.00516	<0.00010	<0.000050
L1932034-1	WQ28	Surface		5/24/2017	0.000213	0.000760	<0.0030	0.223	<0.00010	0.000400	0.00511	<0.00010	<0.000050
L1935151-3	WQ28	Surface		5/30/2017	0.000198	0.000570	<0.0030	0.197	<0.00010	0.000460	0.00416	<0.00010	<0.000050
L1939712-1	WQ28	Surface		6/7/2017	0.000196	0.000640	0.00460	0.144	<0.00010	0.000450	0.00448	<0.00010	<0.000050
L1961670-5	WQ28	Surface	Dup	7/18/2017	0.000148	<0.00050	<0.0030	0.0325	<0.00010	0.000610	0.00633	<0.00010	<0.000050
L1961670-4	WQ28	Surface		7/18/2017	0.000149	<0.00050	<0.0030	0.0319	<0.00010	0.000590	0.00627	<0.00010	<0.000050
L1984944-2	WQ28	Surface		8/30/2017	0.000295	<0.00050	<0.0030	0.0124	<0.00010	0.000610	0.00954	<0.00010	<0.000050
L1988832-3	WQ28	Surface		9/8/2017	0.000218	<0.00050	<0.0030	0.0152	<0.00010	0.000660	0.00903	<0.00010	<0.000050
L1991279-1	WQ28	Surface		9/13/2017	0.000216	<0.00050	<0.0030	0.0150	<0.00010	0.000650	0.00791	<0.00010	<0.000050
L1995655-3	WQ28	Surface	Dup	9/21/2017	0.000131	<0.00050	0.00330	0.0234	<0.00010	0.000650	0.00670	<0.00010	<0.000050
L1995655-5	WQ28	Surface		9/21/2017	0.000134	<0.00050	<0.0030	0.0229	<0.00010	0.000640	0.00668	<0.00010	<0.000050
L1999769-3	WQ28	Surface	Dup	9/28/2017	0.000184	<0.00050	<0.0030	0.0162	<0.00010	0.000630	0.00815	<0.00010	<0.000050
L1999769-4	WQ28	Surface		9/28/2017	0.000194	<0.00050	<0.0030	0.0163	<0.00010	0.000620	0.00811	<0.00010	<0.000050
L2011329-4	WQ28	Surface		10/19/2017	0.000175	0.000560	0.00420	0.0926	<0.00010	0.000610	0.00565	<0.00010	<0.000050

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					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2020946-3	WQ28	Surface		11/8/2017	0.000162	<0.00050	<0.0030	0.0689	<0.00010	0.000470	0.00520	<0.00010	<0.000050
L2035356-1	WQ28	Surface		12/12/2017	0.000159	0.000550	<0.0030	0.0431	<0.00010	0.000490	0.00547	<0.00010	<0.000050
L2049678-5	WQ28	Surface		1/24/2018	0.000214	0.000560	<0.0030	0.0227	<0.00010	0.000550	0.00671	<0.00010	<0.000050
L2057605-3	WQ28	Surface		2/14/2018	0.000238	0.000590	0.00420	0.0174	<0.00010	0.000540	0.00660	<0.00010	<0.000050
L2074294-6	WQ28	Surface		3/28/2018	0.000233	<0.00050	<0.0030	0.0115	<0.00010	0.000480	0.00643	<0.00010	<0.000050
L2081503-7	WQ28	Surface		4/17/2018	0.000229	<0.00050	<0.0030	0.0142	<0.00010	0.000490	0.00677	<0.00010	<0.000050
L2093061-3	WQ28	Surface	Dup	5/9/2018	0.000255	0.00156	0.00350	0.273	<0.00010	0.000340	0.00472	<0.00010	<0.000050
L2093061-2	WQ28	Surface		5/9/2018	0.000301	0.00159	0.00340	0.280	<0.00010	0.000380	0.00501	<0.00010	<0.000050
L2097084-7	WQ28	Surface		5/16/2018	0.000194	0.000850	<0.0030	0.187	<0.00010	0.000340	0.00378	<0.00010	<0.000050
L2100419-2	WQ28	Surface		5/23/2018	0.000177	0.000530	<0.0030	0.156	<0.00010	0.000420	0.00387	<0.00010	<0.000050
L2103632-6	WQ28	Surface		5/29/2018	0.000174	0.000730	<0.0030	0.123	<0.00010	0.000440	0.00397	<0.00010	<0.000050
L2106738-2	WQ28	Surface		6/4/2018	0.000168	<0.00050	<0.0030	0.109	<0.00010	0.000400	0.00386	<0.00010	<0.000050
L2132986-3	WQ28	Surface		7/18/2018	0.000144	0.000670	<0.0030	0.0294	<0.00010	0.000590	0.00676	<0.00010	<0.000050
L2143640-7	WQ28	Surface		8/7/2018	0.000160	0.000590	<0.0030	0.0314	<0.00010	0.000740	0.00739	<0.00010	<0.000050
L2156026-3	WQ28	Surface		8/28/2018	0.000239	<0.00050	<0.0030	0.0167	<0.00010	0.000700	0.00957	<0.00010	<0.000050
L2159605-4	WQ28	Surface	Dup	9/4/2018	0.000234	<0.00050	<0.0030	0.0131	<0.00010	0.000620	0.00793	<0.00010	<0.000050
L2159605-3	WQ28	Surface		9/4/2018	0.000232	<0.00050	<0.0030	0.0136	<0.00010	0.000670	0.00777	<0.00010	<0.000050
L2160840-3	WQ28	Surface		9/7/2018	0.000229	0.000630	<0.0030	0.0131	<0.00010	0.000600	0.00897	<0.00010	<0.000050
L2163669-5	WQ28	Surface		9/11/2018	0.000203	<0.00050	<0.0030	0.0153	<0.00010	0.000650	0.00781	<0.00010	<0.000050
L2188218-2	WQ28	Surface		10/26/2018	0.000146	<0.00050	<0.0030	0.0300	<0.00010	0.000500	0.00527	<0.00010	<0.000050
L2204508-5	WQ28	Surface		11/29/2018	0.000134	0.000680	<0.0030	0.0644	<0.00010	0.000480	0.00527	<0.00010	<0.000050
L2213246-4	WQ28	Surface		12/18/2018	0.000155	0.000530	<0.0030	0.0325	<0.00010	0.000540	0.00566	<0.00010	<0.000050
L2227701-4	WQ28	Surface		1/30/2019	0.000179	<0.00050	<0.0030	0.0212	<0.00010	0.000510	0.00654	<0.00010	<0.000050
L2232050-3	WQ28	Surface		2/11/2019	0.000250	<0.00050	<0.0030	0.0158	<0.00010	0.000500	0.00685	<0.00010	<0.000050
L2244756-4	WQ28	Surface		3/13/2019	0.000330	<0.00050	<0.0030	0.0112	<0.00010	0.000510	0.00784	<0.00010	<0.000050
L2256053-4	WQ28	Surface		4/8/2019	0.000146	<0.00050	<0.0030	0.0202	<0.00010	0.000500	0.00740	<0.00010	<0.000050
L2269368-4	WQ28	Surface		5/4/2019	0.000140	0.000540	<0.0030	0.196	<0.00010	0.000510	0.00549	<0.00010	<0.000050
L2274397-2	WQ28	Surface		5/14/2019	0.000182	<0.00050	<0.0030	0.189	<0.00010	0.000420	0.00464	<0.00010	<0.000050
L2277964-8	WQ28	Surface	Dup	5/21/2019	0.000187	0.000790	<0.0030	0.251	<0.00010	0.000500	0.00501	<0.00010	<0.000050
L2277964-5	WQ28	Surface		5/21/2019	0.000173	0.000880	<0.0030	0.243	<0.00010	0.000480	0.00490	<0.00010	<0.000050
L2282975-6	WQ28	Surface	Dup	5/29/2019	0.000179	<0.00050	<0.0030	0.152	<0.00010	0.000440	0.00460	<0.00010	<0.000050
L2282975-4	WQ28	Surface		5/29/2019	0.000182	<0.00050	<0.0030	0.144	<0.00010	0.000430	0.00438	<0.00010	<0.000050
L2285579-4	WQ28	Surface		6/3/2019	0.000163	<0.00050	<0.0030	0.120	<0.00010	0.000470	0.00463	<0.00010	<0.000050
L2312637-5	WQ28	Surface		7/16/2019	0.000151	<0.00050	<0.0030	0.101	<0.00010	0.000480	0.00502	<0.00010	<0.000050
L2326388-4	WQ28	Surface		8/8/2019	0.000148	<0.00050	<0.0030	0.102	<0.00010	0.000580	0.00578	<0.00010	<0.000050
L2350223-3	WQ28	Surface		9/17/2019	0.000142	<0.00050	<0.0030	0.0531	<0.00010	0.000600	0.00572	<0.00010	<0.000050
L2372667-3	WQ28	Surface		10/23/2019	0.000133	0.000530	<0.0030	0.0921	<0.00010	0.000470	0.00464	<0.00010	<0.000050
L2383392-4	WQ28	Surface		11/14/2019	0.000126	0.000590	<0.0030	0.110	<0.00010	0.000440	0.00429	<0.00010	<0.000050
VA19A0726-003	WQ28	Surface		12/16/2019	0.000130	<0.00050	<0.0030	0.0703	<0.00010	0.000430	0.00457	<0.000020	<0.000050
VA20A0812-003	WQ28	Surface		1/23/2020	0.000166	<0.00050	<0.0030	0.0395	<0.00010	0.000440	0.00609	<0.000020	<0.000050
VA20A1887-004	WQ28	Surface		2/13/2020	0.000181	<0.00050	<0.0030	0.0259	<0.00010	0.000480	0.00568	<0.000100	<0.000050
VA20A3516-004	WQ28	Surface		3/16/2020	0.000220	0.000500	<0.0030	0.0207	<0.00010	0.000500	0.00688	<0.000020	<0.000050
VA20A4369-003	WQ28	Surface		4/1/2020	0.000224	<0.00050	<0.0030	0.0216	<0.00010	0.000480	0.00701	<0.000020	<0.000050
VA20A6356-004	WQ28	Surface		5/11/2020	0.000139	0.000590	<0.0030	0.198	<0.00010	0.000350	0.00476	0.0000280	<0.000050

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					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
VA20B2426-005	WQ28	Surface		8/10/2020	0.000154	<0.00050	0.00370	0.0429	<0.00010	0.000580	0.00570	<0.000020	<0.000050
VA20C0197-004	WQ28	Surface		11/4/2020	0.000158	0.000630	<0.0030	0.246	<0.00010	0.000490	0.00522	0.0000350	<0.000050
L2238112-1	WQ29	Surface		2/26/2019	0.000154	<0.00050	<0.0030	<0.0030	<0.00010	0.000480	0.00813	<0.00010	<0.000050
L2278768-1	WQ29	Surface		5/22/2019	0.0000970	0.00105	<0.0030	0.0404	<0.00010	0.000470	0.00718	<0.00010	<0.000050
L2325935-4	WQ29	Surface	Dup	8/7/2019	0.0000950	0.000750	<0.0030	0.0122	<0.00010	0.000690	0.00727	<0.00010	<0.000050
L2325935-2	WQ29	Surface		8/7/2019	0.000101	0.000800	<0.0030	0.0124	<0.00010	0.000720	0.00770	<0.00010	<0.000050
L2388381-6	WQ29	Surface	Dup	11/25/2019	0.0000910	0.000520	<0.0030	0.0210	<0.00010	0.000490	0.00675	<0.00010	<0.000050
L2388381-5	WQ29	Surface		11/25/2019	0.0000890	0.000520	<0.0030	0.0223	<0.00010	0.000460	0.00676	<0.00010	<0.000050
VA20A1056-001	WQ29	Surface		1/28/2020	0.000115	<0.00050	<0.0030	0.00480	<0.00010	0.000480	0.00825	<0.000020	<0.000050
VA20A1776-001	WQ29	Surface		2/2/2020	0.000125	<0.00050	0.00330	0.00450	<0.00010	0.000500	0.00760	<0.000020	<0.000050
VA20A3580-003	WQ29	Surface	Dup	3/17/2020	0.000151	<0.00050	<0.0030	0.00380	<0.00010	0.000520	0.00777	<0.000020	<0.000050
VA20A3580-001	WQ29	Surface		3/17/2020	0.000148	<0.00050	<0.0030	0.00380	<0.00010	0.000520	0.00766	<0.000020	<0.000050
VA20A4424-003	WQ29	Surface	Dup	4/2/2020	0.000171	0.000570	<0.0030	0.00540	<0.00010	0.000520	0.00909	<0.000020	<0.000050
VA20A4424-001	WQ29	Surface		4/2/2020	0.000170	0.000590	<0.0030	0.00410	<0.00010	0.000580	0.00877	<0.000020	<0.000050
VA20A6114-001	WQ29	Surface		5/6/2020	0.0000670	0.000560	<0.0030	0.0275	<0.00010	0.000380	0.00643	<0.000020	<0.000050
VA20A6503-001	WQ29	Surface		5/13/2020	0.0000860	0.000620	<0.0030	0.0301	<0.00010	0.000450	0.00716	<0.000020	<0.000050
VA20A6869-004	WQ29	Surface		5/20/2020	0.0000900	0.000600	<0.0030	0.0302	<0.00010	0.000440	0.00702	<0.000020	<0.000050
VA20A7367-004	WQ29	Surface		5/28/2020	0.0000980	0.000650	<0.0030	0.0228	<0.00010	0.000520	0.00709	<0.000020	<0.000050
VA20A7797-001	WQ29	Surface		6/3/2020	0.000108	0.000750	<0.0030	0.0173	<0.00010	0.000470	0.00630	<0.000020	<0.000050
VA20B0021-001	WQ29	Surface		7/7/2020	0.0000910	0.000800	<0.0030	0.0154	<0.00010	0.000560	0.00749	<0.000020	<0.000050
VA20B2012-001	WQ29	Surface		8/4/2020	0.000134	0.000760	0.00570	0.00540	<0.00010	0.000730	0.00704	<0.000020	<0.000050
VA20B2542-001	WQ29	Surface		8/11/2020	0.000131	0.000740	<0.0030	0.00520	<0.00010	0.000690	0.00760	<0.000020	<0.000050
VA20B3033-001	WQ29	Surface		8/17/2020	0.000120	0.000700	<0.0030	0.00740	<0.00010	0.000710	0.00783	<0.000020	<0.000050
VA20B3860-001	WQ29	Surface		8/26/2020	0.000131	0.000640	<0.0030	0.00550	<0.00010	0.000780	0.00859	<0.000020	<0.000050
VA20B4443-001	WQ29	Surface		9/2/2020	0.000118	0.000520	<0.0030	0.00480	<0.00010	0.000730	0.00818	<0.000020	<0.000050
VA20B7828-004	WQ29	Surface	Dup	10/8/2020	0.000116	0.000540	<0.0030	0.00410	<0.00010	0.000660	0.00805	<0.000020	<0.000050
VA20B7828-001	WQ29	Surface		10/8/2020	0.000121	0.000590	<0.0030	0.00380	<0.00010	0.000650	0.00876	<0.000020	<0.000050
VA20B9945-001	WQ29	Surface		11/2/2020	0.0000840	0.000780	<0.0030	0.0686	<0.00010	0.000490	0.00743	<0.000020	<0.000050
	WQ3	Surface		5/17/2011	0.000280	0.00240	0.00500	0.168	0.0000600	0.000600	0.00442	< 0.0001	-
	WQ3	Surface		5/25/2011	0.000170	0.00120	0.00360	-	< 0.00005	0.000400	0.00339	< 0.0001	-
	WQ3	Surface		5/31/2011	0.000140	0.00110	0.00550	0.157	< 0.00005	0.000400	0.00302	< 0.0001	-
	WQ3	Surface		6/7/2011	0.000140	0.00100	0.00980	0.108	< 0.00005	0.000400	0.00318	< 0.0001	-
	WQ3	Surface		6/14/2011	0.000150	0.00100	0.00130	0.0840	0.0000600	0.000500	0.00334	< 0.0001	-
	WQ3	Surface		7/19/2011	0.000120	0.00120	0.00130	0.0620	0.0000600	0.000600	0.00398	< 0.0001	-
	WQ3	Surface		8/16/2011	0.000180	0.00150	0.000900	0.0320	< 0.00005	0.000800	0.00435	< 0.0001	-
	WQ3	Surface		9/20/2011	0.000200	0.00160	0.000700	0.0140	< 0.00005	0.00100	0.00477	< 0.0001	-
	WQ3	Surface		10/18/2011	0.000150	0.00120	< 0.0005	0.0160	< 0.00005	0.000900	0.00456	< 0.0001	-
	WQ3	Surface		11/15/2011	0.000170	0.00140	0.00160	0.0130	< 0.00005	0.000900	0.00425	< 0.0001	-
	WQ3	Surface		12/12/2011	0.000180	0.00140	0.000600	0.0100	0.0000700	0.00100	0.00470	< 0.0001	-
	WQ3	Surface		1/12/2012	0.000180	0.00160	0.0124	0.00600	< 0.00005	0.00110	0.00485	< 0.0001	-
	WQ3	Surface		2/13/2012	0.000270	0.00220	< 0.0005	0.00400	< 0.00005	0.00110	0.00451	< 0.0001	-
	WQ3	Surface		3/12/2012	0.000210	0.00160	0.00150	0.00600	< 0.00005	0.00100	0.00427	< 0.0001	-
	WQ3	Surface		4/16/2012	0.000170	0.00180	< 0.0005	0.0100	0.0000700	0.00110	0.00490	< 0.0001	-
	WQ3	Surface		5/14/2012	0.000180	0.00140	0.00270	0.108	< 0.00005	0.000600	0.00408	< 0.0001	-

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Uranium (U)-Total	Vanadium (V)-Total	Zinc (Zn)-Total	Aluminum (Al)-Dissolved	Antimony (Sb)-Dissolved	Arsenic (As)-Dissolved	Barium (Ba)-Dissolved	Beryllium (Be)-Dissolved	Bismuth (Bi)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ3	Surface		5/22/2012	0.000170	0.00120	0.00950	0.119	< 0.00005	0.000500	0.00390	< 0.0001	-
	WQ3	Surface		5/29/2012	0.000110	0.000800	0.00160	0.0920	0.0000500	0.000400	0.00335	< 0.0001	-
	WQ3	Surface		6/5/2012	0.000130	0.000900	< 0.0005	0.0710	0.0000800	0.000300	0.00343	< 0.0001	-
	WQ3	Surface		6/12/2012	0.0000900	0.000900	0.000900	0.0750	0.0000600	0.000500	0.00363	< 0.0001	-
	WQ3	Surface		6/19/2012	0.000100	0.00110	0.00300	0.0660	< 0.00005	0.000600	0.00359	< 0.0001	-
	WQ3	Surface		7/17/2012	0.000110	0.00140	0.000700	0.0280	0.0000600	0.000800	0.00474	< 0.0001	-
	WQ3	Surface		8/14/2012	0.000160	0.00140	0.00150	0.0200	< 0.00005	0.00100	0.00500	< 0.0001	-
	WQ3	Surface		9/18/2012	0.000200	0.00170	< 0.0005	0.0160	< 0.00005	0.00110	0.00480	< 0.0001	-
	WQ3	Surface		10/15/2012	0.000190	0.00160	0.00270	0.0140	< 0.00005	0.00110	0.00438	< 0.0001	-
	WQ3	Surface		11/13/2012	0.000180	0.00100	0.00300	0.0180	< 0.00005	0.00120	0.00448	< 0.0001	-
	WQ3	Surface		12/10/2012	0.000120	< 0.0001	0.00110	0.00300	< 0.00005	0.000500	0.00736	< 0.0001	-
	WQ3	Surface		1/13/2013	0.000210	0.00150	0.00230	0.0120	< 0.00005	0.00120	0.00439	< 0.0001	-
	WQ3	Surface		2/12/2013	0.000170	0.00120	0.00440	0.0110	< 0.00005	0.00100	0.00417	< 0.0001	-
	WQ3	Surface		3/11/2013	0.000210	0.00145	0.00380	0.0130	0.0000600	0.00120	0.00381	< 0.0001	-
	WQ3	Surface		4/15/2013	0.000260	0.00196	0.00220	0.0190	0.0000800	0.00230	0.0106	< 0.0001	-
	WQ3	Surface		5/13/2013	0.000130	0.000790	0.00410	0.201	0.0000600	0.000500	0.00345	< 0.0001	-
	WQ3	Surface		5/22/2013	0.000140	0.00121	0.00190	0.120	0.0000600	0.000400	0.00368	< 0.0001	-
	WQ3	Surface		5/27/2013	0.000140	0.000500	< 0.0005	0.138	< 0.00005	0.000500	0.00331	< 0.0001	-
	WQ3	Surface		6/6/2013	0.000170	0.000740	0.00160	0.129	0.0000600	0.000500	0.00332	< 0.0001	-
	WQ3	Surface		6/10/2013	0.000140	< 0.00005	0.00150	0.0930	< 0.00005	0.000300	0.00406	< 0.0001	-
	WQ3	Surface		6/17/2013	0.000150	< 0.00005	0.00110	0.105	0.0000800	< 0.0001	0.00376	< 0.0001	-
	WQ3	Surface	Dup	4/13/2014	0.000200	0.00111	0.00190	0.00900	<0.00005	0.000900	0.00406	<0.0001	-
	WQ3	Surface		4/13/2014	0.000200	0.00110	0.00120	0.00900	< 0.00005	0.000900	0.00404	< 0.0001	-
	WQ3	Surface		7/2/2014	0.000140	0.00201	0.00230	0.0320	<0.00005	0.000800	0.00451	<0.0001	-
	WQ3	Surface		9/24/2014	0.000190	0.00202	0.00230	0.0110	<0.00005	0.00130	0.00520	<0.0001	-
	WQ3	Surface		12/9/2014	0.000200	0.00208	0.00270	0.00600	<0.00005	0.00120	0.00432	<0.0001	-
L1926080-7	WQ3	Surface		5/11/2017	0.000230	0.00228	<0.0030	0.153	<0.00010	0.000870	0.00539	<0.00010	<0.000050
L1962414-1	WQ3	Surface		7/19/2017	0.000208	0.00342	<0.0030	0.0649	<0.00010	0.000870	0.00396	<0.00010	<0.000050
L1988190-1	WQ3	Surface		9/6/2017	0.000245	0.00267	<0.0030	0.0730	<0.00010	0.00158	0.00620	<0.00010	<0.000050
L2010514-1	WQ3	Surface		10/18/2017	0.000385	0.00296	0.00630	0.0601	<0.00010	0.00127	0.00435	<0.00010	<0.000050
L2060442-1	WQ3	Surface		2/23/2018	0.0000970	0.00122	<0.0030	0.0144	<0.00010	0.00106	0.00463	<0.00010	<0.000050
L2103632-1	WQ3	Surface		5/29/2018	0.000145	0.00161	<0.0030	0.0593	<0.00010	0.000950	0.00355	<0.00010	<0.000050
L2143640-2	WQ3	Surface		8/7/2018	0.000168	0.00206	<0.0030	0.0289	<0.00010	0.00207	0.00553	<0.00010	<0.000050
L2204508-2	WQ3	Surface		11/29/2018	0.000105	0.00161	<0.0030	0.0320	<0.00010	0.00105	0.00383	<0.00010	<0.000050
L2232772-1	WQ3	Surface		2/12/2019	0.000176	0.00156	<0.0030	0.00920	<0.00010	0.00101	0.00444	<0.00010	<0.000050
L2273497-2	WQ3	Surface		5/13/2019	0.000125	0.00154	<0.0030	0.0609	<0.00010	0.000740	0.00344	<0.00010	<0.000050
L2328474-1	WQ3	Surface		8/12/2019	0.000131	0.00148	<0.0030	0.0565	<0.00010	0.00108	0.00439	<0.00010	<0.000050
L2385426-1	WQ3	Surface		11/18/2019	0.000139	0.00126	<0.0030	0.0889	<0.00010	0.000750	0.00353	<0.00010	<0.000050
VA20A1830-002	WQ3	Surface		2/12/2020	0.000142	0.00140	<0.0030	0.0187	<0.00010	0.000810	0.00406	<0.000020	<0.000050
VA20A6574-001	WQ3	Surface		5/14/2020	0.000132	0.00152	<0.0030	0.0889	<0.00010	0.000540	0.00309	0.0000220	<0.000050
VA20B2692-002	WQ3	Surface		8/12/2020	0.000180	0.00141	<0.0030	0.0206	<0.00010	0.00126	0.00432	<0.000020	<0.000050
VA20C1166-001	WQ3	Surface		11/17/2020	0.000140	0.00139	<0.0030	0.0812	<0.00010	0.000740	0.00376	<0.000020	<0.000050
L2239149-1	WQ30	Surface		2/28/2019	0.000187	<0.00050	<0.0030	<0.0030	<0.00010	0.000520	0.00851	<0.00010	<0.000050
L2278768-2	WQ30	Surface		5/22/2019	0.0000920	0.00123	<0.0030	0.0270	<0.00010	0.000450	0.00703	<0.00010	<0.000050

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Uranium (U)-Total	Vanadium (V)-Total	Zinc (Zn)-Total	Aluminum (Al)-Dissolved	Antimony (Sb)-Dissolved	Arsenic (As)-Dissolved	Barium (Ba)-Dissolved	Beryllium (Be)-Dissolved	Bismuth (Bi)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2325935-1	WQ30	Surface		8/7/2019	0.000103	0.000700	<0.0030	0.0117	<0.00010	0.000690	0.00735	<0.00010	<0.000050
L2385426-3	WQ30	Surface		11/18/2019	0.0000950	0.000590	<0.0030	0.0274	<0.00010	0.000460	0.00613	<0.00010	<0.000050
VA20A1056-002	WQ30	Surface		1/28/2020	0.000138	0.000550	<0.0030	0.00570	<0.00010	0.000530	0.00847	<0.000020	<0.000050
VA20A1776-002	WQ30	Surface		2/2/2020	0.000150	<0.00050	<0.0030	0.00460	<0.00010	0.000540	0.00791	<0.000020	<0.000050
VA20A3580-002	WQ30	Surface		3/17/2020	0.000173	<0.00050	<0.0030	0.00430	<0.00010	0.000600	0.00817	<0.000020	<0.000050
VA20A4424-002	WQ30	Surface		4/2/2020	0.000212	0.000630	<0.0030	0.00430	<0.00010	0.000580	0.00893	<0.000020	<0.000050
VA20A6114-002	WQ30	Surface		5/6/2020	0.0000700	0.000600	<0.0030	0.0279	<0.00010	0.000390	0.00648	<0.000020	<0.000050
VA20A6503-005	WQ30	Surface	Dup	5/13/2020	0.0000800	0.000640	<0.0030	0.0286	<0.00010	0.000450	0.00738	<0.000020	<0.000050
VA20A6503-002	WQ30	Surface		5/13/2020	0.0000790	0.000690	<0.0030	0.0273	<0.00010	0.000480	0.00722	<0.000020	<0.000050
VA20A6869-005	WQ30	Surface		5/20/2020	0.0000770	0.000660	<0.0030	0.0305	<0.00010	0.000490	0.00686	<0.000020	<0.000050
VA20A7367-005	WQ30	Surface		5/28/2020	0.000100	0.000700	<0.0030	0.0224	<0.00010	0.000520	0.00696	<0.000020	<0.000050
VA20A7797-002	WQ30	Surface		6/3/2020	0.000110	0.000780	<0.0030	0.0146	<0.00010	0.000480	0.00656	<0.000020	<0.000050
VA20B0021-002	WQ30	Surface		7/7/2020	0.0000970	0.000920	<0.0030	0.0175	<0.00010	0.000820	0.00750	<0.000020	<0.000050
VA20B2012-002	WQ30	Surface		8/4/2020	0.000138	0.000770	<0.0030	0.00540	<0.00010	0.000790	0.00732	<0.000020	<0.000050
VA20B2542-002	WQ30	Surface		8/11/2020	0.000146	0.000680	<0.0030	0.00590	<0.00010	0.000820	0.00859	<0.000020	<0.000050
VA20B3033-002	WQ30	Surface		8/17/2020	0.000129	0.000670	<0.0030	0.00540	<0.00010	0.000730	0.00836	<0.000020	<0.000050
VA20B3860-006	WQ30	Surface	Dup	8/26/2020	0.000141	0.000630	<0.0030	0.00410	<0.00010	0.000790	0.00828	<0.000020	<0.000050
VA20B3860-002	WQ30	Surface		8/26/2020	0.000142	0.000640	<0.0030	0.00570	<0.00010	0.000830	0.00834	<0.000020	<0.000050
VA20B4443-002	WQ30	Surface		9/2/2020	0.000128	0.000520	<0.0030	0.00450	<0.00010	0.000770	0.00850	<0.000020	<0.000050
VA20B7828-002	WQ30	Surface		10/8/2020	0.000138	0.000540	<0.0030	0.00390	<0.00010	0.000720	0.00828	<0.000020	<0.000050
VA20B9945-002	WQ30	Surface		11/2/2020	0.0000780	0.000800	<0.0030	0.0906	<0.00010	0.000500	0.00761	<0.000020	<0.000050
VA20A0688-001	WQ31	Surface		1/21/2020	0.0000970	<0.00050	<0.0030	0.108	<0.00010	0.000160	0.00647	<0.000020	<0.000050
VA20A1887-003	WQ31	Surface		2/13/2020	0.0000920	<0.00050	<0.0030	0.0676	<0.00010	0.000170	0.00668	<0.000100	<0.000050
VA20A3516-005	WQ31	Surface		3/16/2020	0.0000910	<0.00050	<0.0030	0.0555	<0.00010	0.000190	0.00724	<0.000020	<0.000050
VA20A4369-004	WQ31	Surface		4/1/2020	0.0000830	<0.00050	<0.0030	0.0493	<0.00010	0.000200	0.00752	<0.000020	<0.000050
VA20A6356-005	WQ31	Surface		5/11/2020	0.000125	0.000510	0.00390	0.252	<0.00010	0.000160	0.00594	0.0000340	<0.000050
VA20A7672-005	WQ31	Surface	Dup	6/2/2020	0.000129	<0.00050	<0.0030	0.163	<0.00010	0.000150	0.00522	0.0000250	<0.000050
VA20A7672-001	WQ31	Surface		6/2/2020	0.000131	<0.00050	<0.0030	0.164	<0.00010	0.000160	0.00530	0.0000270	<0.000050
VA20A9918-004	WQ31	Surface		7/6/2020	0.000133	<0.00050	<0.0030	0.172	<0.00010	0.000170	0.00626	0.0000200	<0.000050
VA20B2426-002	WQ31	Surface		8/10/2020	0.000129	<0.00050	0.00420	0.100	<0.00010	0.000190	0.00648	<0.000020	<0.000050
VA20B4313-004	WQ31	Surface	Dup	9/1/2020	0.000112	<0.00050	<0.0030	0.0763	<0.00010	0.000180	0.00683	<0.000020	<0.000050
VA20B4313-002	WQ31	Surface		9/1/2020	0.000112	<0.00050	<0.0030	0.0836	<0.00010	0.000270	0.00724	<0.000020	<0.000050
VA20B7624-005	WQ31	Surface		10/6/2020	0.000114	<0.00050	<0.0030	0.0739	<0.00010	0.000190	0.00763	<0.000020	<0.000050
VA20C0197-001	WQ31	Surface		11/4/2020	0.000129	0.000540	<0.0030	0.271	<0.00010	0.000180	0.00682	0.0000310	<0.000050
	WQ4	Surface		5/17/2011	< 0.00005	0.000300	0.0617	0.170	0.0000900	0.000900	0.00294	< 0.0001	-
	WQ4	Surface		5/24/2011	0.0000600	< 0.0001	0.0534	-	0.0000700	0.00110	0.00250	< 0.0001	-
	WQ4	Surface		5/30/2011	0.0000500	< 0.0001	0.0534	0.209	0.0000800	0.00120	0.00227	< 0.0001	-
	WQ4	Surface		6/6/2011	0.0000500	< 0.0001	0.0477	0.164	0.000100	0.00120	0.00200	< 0.0001	-
	WQ4	Surface		6/13/2011	0.0000500	< 0.0001	0.0412	0.140	0.000130	0.00120	0.00195	< 0.0001	-
	WQ4	Surface		7/18/2011	< 0.00005	0.000200	0.0400	0.123	0.000140	0.00130	0.00223	< 0.0001	-
	WQ4	Surface		8/15/2011	0.0000800	0.000300	0.0404	0.0590	0.000100	0.00110	0.00191	< 0.0001	-
	WQ4	Surface		9/19/2011	< 0.00005	< 0.0001	0.0257	0.0350	0.0000900	0.00110	0.00211	< 0.0001	-
	WQ4	Surface		10/17/2011	< 0.00005	< 0.0001	0.0250	0.0480	0.0000800	0.000900	0.00185	< 0.0001	-
	WQ4	Surface		11/14/2011	0.0000500	< 0.0001	0.0381	0.0370	0.0000700	0.000800	0.00149	< 0.0001	-

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Uranium (U)-Total	Vanadium (V)-Total	Zinc (Zn)-Total	Aluminum (Al)-Dissolved	Antimony (Sb)-Dissolved	Arsenic (As)-Dissolved	Barium (Ba)-Dissolved	Beryllium (Be)-Dissolved	Bismuth (Bi)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ4	Surface	Dup	5/15/2012	0.0000700	0.00160	0.0596	0.206	0.000170	0.00140	0.00277	< 0.0001	-
	WQ4	Surface		5/15/2012	0.0000700	0.00150	0.0592	0.214	0.000190	0.00130	0.00264	< 0.0001	-
	WQ4	Surface		5/23/2012	0.0000700	0.000500	0.0562	0.292	0.000170	0.00130	0.00281	< 0.0001	-
	WQ4	Surface		5/28/2012	< 0.00005	0.000200	0.0452	0.170	0.000140	0.00120	0.00210	< 0.0001	-
	WQ4	Surface		6/4/2012	0.0000600	< 0.0001	0.0436	0.130	0.000150	0.00110	0.00217	< 0.0001	-
	WQ4	Surface		6/11/2012	< 0.00005	< 0.0001	0.0493	0.144	0.000150	0.00130	0.00243	< 0.0001	-
	WQ4	Surface		6/18/2012	< 0.00005	0.000100	0.0468	0.108	0.0000900	0.00120	0.00218	< 0.0001	-
	WQ4	Surface		7/16/2012	< 0.00005	0.000200	0.0345	0.100	0.000150	0.00140	0.00278	< 0.0001	-
	WQ4	Surface		8/13/2012	< 0.00005	0.000100	0.0307	0.0690	0.000140	0.00140	0.00302	< 0.0001	-
	WQ4	Surface		9/17/2012	< 0.00005	< 0.0001	0.0253	0.0380	0.000140	0.00120	0.00229	< 0.0001	-
	WQ4	Surface		10/16/2012	0.000180	0.000100	0.0746	0.237	0.000150	0.00260	0.00375	< 0.0001	-
	WQ4	Surface		11/12/2012	< 0.00005	< 0.0001	0.0411	0.0680	0.000250	0.00100	0.00336	< 0.0001	-
	WQ4	Surface		12/10/2012	0.000170	0.000700	0.0882	0.0430	0.000300	0.00140	0.00433	< 0.0001	-
	WQ4	Surface		5/14/2013	0.0000500	< 0.00005	0.0426	0.232	0.000190	0.00170	0.00282	< 0.0001	-
	WQ4	Surface		5/21/2013	< 0.00005	0.000140	0.0372	0.149	0.000210	0.00170	0.00298	< 0.0001	-
	WQ4	Surface		5/28/2013	0.0000500	< 0.00005	0.0394	0.188	< 0.00005	0.00190	0.00302	< 0.0001	-
	WQ4	Surface		6/4/2013	< 0.00005	< 0.00005	0.0364	0.127	0.000200	0.00180	0.00298	< 0.0001	-
	WQ4	Surface		6/11/2013	< 0.00005	< 0.00005	0.0371	0.0990	< 0.00005	0.00150	0.00332	< 0.0001	-
	WQ4	Surface		6/18/2013	< 0.00005	< 0.00005	0.0329	0.117	0.000180	0.000200	0.00336	< 0.0001	-
L1925102-1	WQ4	Surface		5/9/2017	0.0000740	0.000760	0.0812	0.233	0.000100	0.00103	0.00390	<0.00010	<0.000050
L1961670-1	WQ4	Surface		7/18/2017	0.0000360	<0.00050	0.0403	0.0553	0.000120	0.000940	0.00342	<0.00010	<0.000050
L2011329-1	WQ4	Surface		10/19/2017	0.0000310	<0.00050	0.0342	0.0409	0.000170	0.00112	0.00393	<0.00010	<0.000050
L2060101-1	WQ4	Surface		2/22/2018	0.0000390	<0.00050	0.0498	0.0309	0.000130	0.000670	0.00421	<0.00010	<0.000050
L2102737-1	WQ4	Surface		5/28/2018	0.0000380	<0.00050	0.0530	0.120	0.000140	0.000870	0.00287	<0.00010	<0.000050
L2144658-3	WQ4	Surface		8/8/2018	0.0000350	<0.00050	0.0443	0.0762	0.000120	0.00116	0.00376	<0.00010	<0.000050
L2204086-2	WQ4	Surface		11/28/2018	0.0000290	<0.00050	0.0422	0.0814	0.000110	0.000650	0.00260	<0.00010	<0.000050
L2233329-1	WQ4	Surface		2/13/2019	0.0000600	<0.00050	0.0487	0.0493	<0.00010	0.000570	0.00301	<0.00010	<0.000050
L2275791-2	WQ4	Surface	Dup	5/16/2019	0.0000330	<0.00050	0.0343	0.123	0.000170	0.00106	0.00318	<0.00010	<0.000050
L2275791-1	WQ4	Surface		5/16/2019	0.0000350	<0.00050	0.0371	0.112	0.000150	0.00101	0.00300	<0.00010	<0.000050
L2329543-1	WQ4	Surface		8/13/2019	0.0000320	<0.00050	0.0270	0.0596	0.000160	0.00145	0.00369	<0.00010	<0.000050
L2378996-2	WQ4	Surface		11/5/2019	0.0000420	<0.00050	0.0247	0.0468	0.000170	0.00112	0.00261	<0.00010	<0.000050
VA20A2211-002	WQ4	Surface		2/20/2020	0.0000240	<0.00050	0.0285	0.0197	0.000160	0.000950	0.00349	<0.000020	<0.000050
VA20A6810-002	WQ4	Surface		5/19/2020	0.0000360	<0.00050	0.0313	0.131	0.000140	0.00107	0.00237	<0.000020	<0.000050
VA20B2212-003	WQ4	Surface		8/6/2020	0.0000280	<0.00050	0.0246	0.0383	0.000160	0.00157	0.00310	<0.000020	<0.000050
VA20C1415-002	WQ4	Surface		11/19/2020	0.0000300	<0.00050	0.0282	0.0575	0.000160	0.000930	0.00211	<0.000020	<0.000050
	WQ5	Surface	Dup	5/17/2011	0.000130	0.00100	0.00540	0.307	< 0.00005	0.000300	0.00398	< 0.0001	-
	WQ5	Surface		5/17/2011	0.000130	0.00100	0.00460	0.253	< 0.00005	0.000300	0.00403	< 0.0001	-
	WQ5	Surface		5/25/2011	0.000100	0.000200	0.00220	-	< 0.00005	0.000200	0.00289	< 0.0001	-
	WQ5	Surface		5/31/2011	0.0000900	0.000200	0.00460	0.217	< 0.00005	0.000200	0.00257	< 0.0001	-
	WQ5	Surface		6/7/2011	0.000110	0.000300	0.00190	0.200	< 0.00005	0.000300	0.00264	< 0.0001	-
	WQ5	Surface		6/14/2011	0.000100	0.000300	0.00140	0.187	< 0.00005	0.000300	0.00256	< 0.0001	-
	WQ5	Surface		7/19/2011	0.0000800	0.000400	0.00130	0.155	< 0.00005	0.000400	0.00307	< 0.0001	-
	WQ5	Surface		8/16/2011	0.0000600	0.000300	0.000900	0.0750	< 0.00005	0.000400	0.00317	< 0.0001	-
	WQ5	Surface		9/20/2011	0.0000500	0.000200	0.000700	0.0340	< 0.00005	0.000300	0.00484	< 0.0001	-

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Uranium (U)-Total	Vanadium (V)-Total	Zinc (Zn)-Total	Aluminum (Al)-Dissolved	Antimony (Sb)-Dissolved	Arsenic (As)-Dissolved	Barium (Ba)-Dissolved	Beryllium (Be)-Dissolved	Bismuth (Bi)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ5	Surface		10/18/2011	0.0000500	0.000200	< 0.0005	0.0580	< 0.00005	0.000400	0.00368	< 0.0001	-
	WQ5	Surface		11/15/2011	0.0000500	0.000200	0.00140	0.0600	< 0.00005	0.000400	0.00361	< 0.0001	-
	WQ5	Surface		12/12/2011	0.0000500	0.000200	0.00140	0.0630	< 0.00005	0.000300	0.00498	< 0.0001	-
	WQ5	Surface		5/14/2012	0.000120	0.000600	0.00160	0.201	< 0.00005	0.000300	0.00328	< 0.0001	-
	WQ5	Surface		5/22/2012	0.000100	0.000300	0.00350	0.199	< 0.00005	0.000200	0.00290	< 0.0001	-
	WQ5	Surface		5/29/2012	0.0000800	0.000200	0.00200	0.196	< 0.00005	0.000300	0.00262	< 0.0001	-
	WQ5	Surface		6/5/2012	0.0000800	0.000200	< 0.0005	0.163	< 0.00005	0.000200	0.00267	< 0.0001	-
	WQ5	Surface		6/12/2012	0.0000600	0.000200	0.00130	0.159	< 0.00005	0.000300	0.00307	< 0.0001	-
	WQ5	Surface		6/19/2012	0.0000700	0.000300	0.00270	0.146	< 0.00005	0.000300	0.00262	< 0.0001	-
	WQ5	Surface		7/17/2012	< 0.00005	0.000400	0.00140	0.0690	< 0.00005	0.000300	0.00382	< 0.0001	-
	WQ5	Surface		8/14/2012	< 0.00005	0.000300	0.00300	0.0490	< 0.00005	0.000400	0.00380	< 0.0001	-
	WQ5	Surface		9/18/2012	0.0000500	0.000300	0.00160	0.0430	< 0.00005	0.000300	0.00426	< 0.0001	-
	WQ5	Surface		10/15/2012	< 0.00005	0.000200	0.00250	0.0310	< 0.00005	0.000300	0.00481	< 0.0001	-
	WQ5	Surface		11/13/2012	< 0.00005	< 0.0001	0.00180	0.0620	< 0.00005	0.000300	0.00400	< 0.0001	-
	WQ5	Surface		1/13/2013	0.0000500	0.000200	0.0281	0.0470	< 0.00005	0.000200	0.00614	< 0.0001	-
	WQ5	Surface		4/15/2013	0.0000700	0.000130	0.00200	0.149	< 0.00005	0.00170	0.0103	< 0.0001	-
	WQ5	Surface		5/13/2013	0.0000800	< 0.00005	0.00230	0.240	< 0.00005	0.000200	0.00248	< 0.0001	-
	WQ5	Surface		5/22/2013	0.0000800	0.000300	0.00140	0.210	< 0.00005	0.000200	0.00272	< 0.0001	-
	WQ5	Surface		5/27/2013	0.0000800	< 0.00005	< 0.0005	0.249	< 0.00005	0.000300	0.00264	< 0.0001	-
	WQ5	Surface		6/6/2013	0.0000900	< 0.00005	0.000800	0.218	< 0.00005	0.000300	0.00338	< 0.0001	-
	WQ5	Surface		6/10/2013	0.0000800	< 0.00005	0.000900	0.174	< 0.00005	< 0.0001	0.00295	< 0.0001	-
	WQ5	Surface		6/17/2013	0.0000900	< 0.00005	0.00130	0.194	0.0000500	< 0.0001	0.00294	< 0.0001	-
	WQ5	Surface		4/13/2014	0.0000500	< 0.00005	0.00320	0.0890	< 0.00005	0.000100	0.00439	< 0.0001	-
	WQ5	Surface		7/2/2014	0.0000600	0.000970	0.00190	0.0830	< 0.00005	0.000300	0.00342	< 0.0001	-
	WQ5	Surface		9/24/2014	0.0000600	0.000420	0.00300	0.0200	< 0.00005	0.000300	0.00748	< 0.0001	-
	WQ5	Surface		12/8/2014	< 0.00005	0.000620	< 0.0005	0.380	< 0.00005	0.000200	0.00508	< 0.0001	-
L1812856-8	WQ5	Surface		8/10/2016	0.0000660	0.000580	< 0.0030	0.0728	< 0.00010	0.000530	0.00413	< 0.00010	< 0.000050
L1815654-8	WQ5	Surface	Dup	8/16/2016	0.0000610	0.000650	< 0.0030	0.0579	< 0.00010	0.000450	0.00442	< 0.00010	< 0.000050
L1815654-6	WQ5	Surface		8/16/2016	0.0000620	0.000620	< 0.0030	0.0595	< 0.00010	0.000460	0.00446	< 0.00010	< 0.000050
L1819041-9	WQ5	Surface		8/23/2016	0.0000600	0.000680	< 0.0030	0.0458	< 0.00010	0.000420	0.00441	< 0.00010	< 0.000050
L1823224-1	WQ5	Surface	Dup	8/31/2016	0.0000520	0.000600	< 0.0030	0.0621	< 0.00010	0.000610	0.00398	< 0.00010	< 0.000050
L1823224-8	WQ5	Surface		8/31/2016	0.0000530	0.000690	< 0.0030	0.0604	< 0.00010	0.000600	0.00399	< 0.00010	< 0.000050
L1826303-4	WQ5	Surface		9/7/2016	0.0000580	< 0.00050	< 0.0030	0.0739	< 0.00010	0.000490	0.00341	< 0.00010	< 0.000050
L1925486-4	WQ5	Surface		5/10/2017	0.000154	0.00124	0.00450	0.170	< 0.00010	0.000630	0.00414	< 0.00010	< 0.000050
L1962414-2	WQ5	Surface		7/19/2017	0.0000540	0.000560	< 0.0030	0.0425	< 0.00010	0.000350	0.00384	< 0.00010	< 0.000050
L1988190-2	WQ5	Surface		9/6/2017	0.000142	0.00244	0.00740	0.0539	< 0.00010	0.00165	0.00487	< 0.00010	< 0.000050
L2010514-2	WQ5	Surface		10/18/2017	0.0000550	0.000590	0.00350	0.0962	< 0.00010	0.000450	0.00286	< 0.00010	< 0.000050
L2060442-2	WQ5	Surface		2/23/2018	0.000106	< 0.00050	< 0.0030	0.0319	< 0.00010	0.000660	0.00464	< 0.00010	< 0.000050
L2103632-2	WQ5	Surface		5/29/2018	0.000127	0.00133	0.00560	0.101	< 0.00010	0.000910	0.00334	< 0.00010	< 0.000050
L2143640-1	WQ5	Surface		8/7/2018	0.000113	0.00142	0.00340	0.0318	< 0.00010	0.00166	0.00477	< 0.00010	< 0.000050
L2204508-1	WQ5	Surface		11/29/2018	0.0000730	0.00115	< 0.0030	0.0627	< 0.00010	0.000740	0.00381	< 0.00010	< 0.000050
L2232772-2	WQ5	Surface		2/12/2019	0.0000760	0.000960	0.00560	0.0192	< 0.00010	0.000780	0.00422	< 0.00010	< 0.000050
L2273497-3	WQ5	Surface		5/13/2019	0.000129	0.00117	0.00630	0.160	< 0.00010	0.000590	0.00305	< 0.00010	< 0.000050
L2328474-2	WQ5	Surface		8/12/2019	0.000104	0.000850	0.00490	0.124	< 0.00010	0.000880	0.00364	< 0.00010	< 0.000050

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Uranium (U)-Total	Vanadium (V)-Total	Zinc (Zn)-Total	Aluminum (Al)-Dissolved	Antimony (Sb)-Dissolved	Arsenic (As)-Dissolved	Barium (Ba)-Dissolved	Beryllium (Be)-Dissolved	Bismuth (Bi)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2385426-2	WQ5	Surface		11/18/2019	0.0000940	0.000650	0.00620	0.227	<0.00010	0.000610	0.00321	<0.00010	<0.000050
VA20A1830-001	WQ5	Surface		2/12/2020	0.0000800	0.000820	<0.0030	0.0351	<0.00010	0.000750	0.00387	<0.000020	<0.000050
VA20A6574-002	WQ5	Surface		5/14/2020	0.000108	0.000880	0.00570	0.165	<0.00010	0.000480	0.00276	0.0000240	<0.000050
VA20B2692-001	WQ5	Surface		8/12/2020	0.000105	0.000990	0.0109	0.0238	<0.00010	0.00117	0.00424	<0.000020	<0.000050
VA20C1166-002	WQ5	Surface		11/17/2020	0.000104	0.00102	0.00560	0.0943	<0.00010	0.000750	0.00360	<0.000020	<0.000050
	WQ6	Surface		5/17/2011	0.000310	0.000700	0.00560	0.205	0.0000600	0.000500	0.00895	< 0.0001	-
	WQ6	Surface		5/24/2011	0.000250	0.000100	0.00420	-	< 0.00005	0.000400	0.00581	< 0.0001	-
	WQ6	Surface		5/30/2011	0.000230	< 0.0001	0.00490	0.183	< 0.00005	0.000400	0.00492	< 0.0001	-
	WQ6	Surface		6/6/2011	0.000270	0.000100	0.00180	0.126	< 0.00005	0.000600	0.00406	< 0.0001	-
	WQ6	Surface		6/13/2011	0.000270	0.000200	0.00170	0.106	0.0000600	0.000700	0.00391	< 0.0001	-
	WQ6	Surface		7/18/2011	0.000260	0.000300	0.00170	0.112	0.0000600	0.000600	0.00498	< 0.0001	-
	WQ6	Surface	Dup	8/15/2011	0.000140	0.000100	0.00160	0.0460	< 0.00005	0.000700	0.00461	< 0.0001	-
	WQ6	Surface		8/15/2011	0.000150	0.000100	0.00100	0.0480	< 0.00005	0.000700	0.00465	< 0.0001	-
	WQ6	Surface		9/19/2011	0.000100	< 0.0001	0.0102	0.0210	< 0.00005	0.000600	0.00528	< 0.0001	-
	WQ6	Surface		10/17/2011	0.000110	< 0.0001	< 0.0005	0.0420	< 0.00005	0.000500	0.00512	< 0.0001	-
	WQ6	Surface		11/14/2011	0.0000900	< 0.0001	0.00180	0.0360	< 0.00005	0.000500	0.00518	< 0.0001	-
	WQ6	Surface		4/17/2012	0.000120	0.000400	0.00230	0.0470	0.0000500	0.000400	0.00701	< 0.0001	-
	WQ6	Surface		5/15/2012	0.000210	0.000400	0.00310	0.196	< 0.00005	0.000300	0.00661	< 0.0001	-
	WQ6	Surface		5/23/2012	0.000170	0.000200	0.00280	0.201	< 0.00005	0.000400	0.00567	< 0.0001	-
	WQ6	Surface		5/28/2012	0.000190	0.000100	0.00230	0.151	0.0000600	0.000600	0.00490	< 0.0001	-
	WQ6	Surface		6/4/2012	0.000220	< 0.0001	0.00100	0.0960	0.0000700	0.000500	0.00416	< 0.0001	-
	WQ6	Surface		6/11/2012	0.000230	< 0.0001	0.00160	0.0980	0.0000600	0.000700	0.00371	< 0.0001	-
	WQ6	Surface		6/18/2012	0.000220	0.000200	0.00250	0.0760	< 0.00005	0.000700	0.00358	< 0.0001	-
	WQ6	Surface		7/16/2012	0.000120	0.000100	0.00110	0.0450	< 0.00005	0.000800	0.00478	< 0.0001	-
	WQ6	Surface		8/13/2012	0.000110	0.000100	0.00520	0.0540	< 0.00005	0.000700	0.00597	< 0.0001	-
	WQ6	Surface		9/17/2012	0.0000900	< 0.0001	0.000700	0.0320	< 0.00005	0.000500	0.00564	< 0.0001	-
	WQ6	Surface		10/16/2012	0.0000900	< 0.0001	0.00240	0.0300	< 0.00005	0.000500	0.00532	< 0.0001	-
	WQ6	Surface		11/12/2012	0.0000900	< 0.0001	0.00140	0.0470	< 0.00005	0.000400	0.00584	< 0.0001	-
	WQ6	Surface		12/10/2012	0.0000900	< 0.0001	0.00210	0.0190	< 0.00005	0.000400	0.00564	< 0.0001	-
	WQ6	Surface		1/15/2013	0.0000800	< 0.0001	0.00300	0.0350	0.0000600	0.000400	0.00584	< 0.0001	-
	WQ6	Surface		2/13/2013	0.0000600	< 0.0001	0.00240	0.0190	< 0.00005	0.000200	0.00554	< 0.0001	-
	WQ6	Surface		3/12/2013	0.0000700	< 0.00005	0.00220	0.0150	0.0000500	0.000300	0.00533	< 0.0001	-
	WQ6	Surface		4/16/2013	0.0000900	< 0.00005	0.00120	0.0610	< 0.00005	0.000400	0.00677	< 0.0001	-
	WQ6	Surface		5/14/2013	0.000220	< 0.00005	0.00250	0.179	< 0.00005	0.000600	0.00434	< 0.0001	-
	WQ6	Surface		5/21/2013	0.000220	0.000200	0.00110	0.112	0.0000600	0.000500	0.00414	< 0.0001	-
	WQ6	Surface		5/28/2013	0.000240	< 0.00005	< 0.0005	0.170	< 0.00005	0.000700	0.00416	< 0.0001	-
	WQ6	Surface		6/4/2013	0.000240	< 0.00005	0.0221	0.126	0.0000500	0.000500	0.00440	< 0.0001	-
	WQ6	Surface		6/11/2013	0.000220	< 0.00005	0.000700	0.0900	< 0.00005	0.000400	0.00439	< 0.0001	-
	WQ6	Surface		6/18/2013	0.000220	< 0.00005	0.00190	0.108	0.0000700	< 0.0001	0.00455	< 0.0001	-
	WQ7	Surface		4/19/2011	0.000330	< 0.0001	0.00170	0.00500	< 0.00005	< 0.0001	0.00829	< 0.0001	-
	WQ7	Surface		5/17/2011	0.000330	0.00320	0.00580	0.171	< 0.00005	0.000400	0.00546	< 0.0001	-
	WQ7	Surface		5/24/2011	0.000280	0.00250	0.00570	-	< 0.00005	0.000300	0.00571	< 0.0001	-
	WQ7	Surface		5/30/2011	0.000230	0.00180	0.0128	0.196	< 0.00005	0.000300	0.00532	< 0.0001	-
	WQ7	Surface		6/6/2011	0.000280	0.00170	0.00380	0.160	< 0.00005	0.000300	0.00412	< 0.0001	-

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Uranium (U)-Total	Vanadium (V)-Total	Zinc (Zn)-Total	Aluminum (Al)-Dissolved	Antimony (Sb)-Dissolved	Arsenic (As)-Dissolved	Barium (Ba)-Dissolved	Beryllium (Be)-Dissolved	Bismuth (Bi)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ7	Surface		6/13/2011	0.000200	0.000800	0.00240	0.114	< 0.00005	0.000400	0.00421	< 0.0001	-
	WQ7	Surface		7/18/2011	0.000160	0.000900	0.00380	0.0990	< 0.00005	0.000400	0.00565	< 0.0001	-
	WQ7	Surface		8/15/2011	0.000120	0.000600	0.000700	0.0270	< 0.00005	0.000500	0.00651	< 0.0001	-
	WQ7	Surface	Dup	9/19/2011	0.000160	0.000300	< 0.0005	0.0100	< 0.00005	0.000500	0.00853	< 0.0001	-
	WQ7	Surface		9/19/2011	0.000150	0.000300	0.00140	0.0120	< 0.00005	0.000500	0.00845	< 0.0001	-
	WQ7	Surface	Dup	10/17/2011	0.000110	0.000200	< 0.0005	0.0190	< 0.00005	0.000400	0.00666	< 0.0001	-
	WQ7	Surface		10/17/2011	0.000110	0.000200	< 0.0005	0.0190	< 0.00005	0.000400	0.00656	< 0.0001	-
	WQ7	Surface		11/14/2011	0.000130	0.000300	0.00150	0.0120	< 0.00005	0.000400	0.00700	< 0.0001	-
	WQ7	Surface	Dup	12/13/2011	0.000160	0.000400	0.00920	0.00900	< 0.00005	0.000400	0.00851	< 0.0001	-
	WQ7	Surface		12/13/2011	0.000200	0.000900	0.0112	0.0100	< 0.00005	0.000400	0.00860	< 0.0001	-
	WQ7	Surface		1/12/2012	0.000200	0.000200	0.0102	0.00500	< 0.00005	0.000400	0.00841	< 0.0001	-
	WQ7	Surface	Dup	2/13/2012	0.000230	0.000200	0.0240	< 0.002	< 0.00005	0.000300	0.00861	< 0.0001	-
	WQ7	Surface		2/13/2012	0.000250	0.000300	0.0681	< 0.002	< 0.00005	0.000300	0.00908	< 0.0001	-
	WQ7	Surface		3/12/2012	0.000280	0.000100	0.00670	0.00500	< 0.00005	0.000300	0.00870	< 0.0001	-
	WQ7	Surface	Dup	4/17/2012	0.000240	0.000400	0.000700	0.0290	0.000140	0.000400	0.00962	< 0.0001	-
	WQ7	Surface		4/17/2012	0.000150	0.000400	< 0.0005	0.0270	< 0.00005	0.000400	0.00960	< 0.0001	-
	WQ7	Surface		5/15/2012	0.000250	0.00180	0.00380	0.146	< 0.00005	0.000300	0.00538	< 0.0001	-
	WQ7	Surface		5/23/2012	0.000170	0.00130	0.00760	0.189	0.0000500	0.000300	0.00511	< 0.0001	-
	WQ7	Surface	Dup	5/28/2012	0.000180	0.000900	0.00100	0.139	< 0.00005	0.000300	0.00434	< 0.0001	-
	WQ7	Surface		5/28/2012	0.000180	0.000700	0.00120	0.161	< 0.00005	0.000300	0.00456	< 0.0001	-
	WQ7	Surface		6/4/2012	0.000190	0.000600	< 0.0005	0.110	0.0000500	0.000300	0.00428	< 0.0001	-
	WQ7	Surface		6/11/2012	0.000140	0.000400	0.00160	0.126	< 0.00005	0.000300	0.00419	< 0.0001	-
	WQ7	Surface		6/18/2012	0.000130	0.000500	0.133	0.334	0.000890	0.000500	0.00731	< 0.0001	-
	WQ7	Surface	Dup	7/16/2012	0.0000800	0.000500	0.000700	0.0240	< 0.00005	0.000400	0.00693	< 0.0001	-
	WQ7	Surface		7/16/2012	0.0000900	0.000500	< 0.0005	0.0250	< 0.00005	0.000500	0.00701	< 0.0001	-
	WQ7	Surface	Dup	8/13/2012	0.000120	0.000600	< 0.0005	0.0200	< 0.00005	0.000600	0.00804	< 0.0001	-
	WQ7	Surface		8/13/2012	0.000120	0.000600	0.0108	0.0190	< 0.00005	0.000600	0.00809	< 0.0001	-
	WQ7	Surface		9/17/2012	0.000160	0.000300	< 0.0005	0.0100	< 0.00005	0.000500	0.00825	< 0.0001	-
	WQ7	Surface		10/16/2012	0.000190	0.000300	0.00220	0.00700	< 0.00005	0.000400	0.00813	< 0.0001	-
	WQ7	Surface	Dup	11/12/2012	0.000170	< 0.0001	< 0.0005	0.0110	< 0.00005	0.000300	0.00850	< 0.0001	-
	WQ7	Surface		11/12/2012	0.000170	< 0.0001	0.0180	0.0110	< 0.00005	0.000300	0.00841	< 0.0001	-
	WQ7	Surface		12/10/2012	0.000220	< 0.0001	0.00170	0.00700	< 0.00005	0.000300	0.00852	< 0.0001	-
	WQ7	Surface	Dup	1/15/2013	0.000260	< 0.0001	0.00740	0.00800	< 0.00005	0.000300	0.00944	< 0.0001	-
	WQ7	Surface		1/15/2013	0.000270	0.000200	0.0197	0.00800	< 0.00005	0.000300	0.00959	< 0.0001	-
	WQ7	Surface	Dup	2/13/2013	0.000210	< 0.0001	0.00740	0.0100	< 0.00005	0.000300	0.00813	< 0.0001	-
	WQ7	Surface		2/13/2013	0.000220	< 0.0001	0.0178	0.0120	< 0.00005	0.000300	0.00824	< 0.0001	-
	WQ7	Surface		3/12/2013	0.000280	< 0.00005	0.00280	0.00500	< 0.00005	0.000400	0.00837	< 0.0001	-
	WQ7	Surface	Dup	4/16/2013	0.000180	0.000130	< 0.0005	0.0190	< 0.00005	0.000400	0.00822	< 0.0001	-
	WQ7	Surface		4/16/2013	0.000180	0.000130	0.000700	0.0180	< 0.00005	0.000400	0.00817	< 0.0001	-
	WQ7	Surface		5/14/2013	0.000160	0.000640	0.00230	0.194	< 0.00005	0.000300	0.00396	< 0.0001	-
	WQ7	Surface		5/21/2013	0.000150	0.000620	0.000800	0.117	< 0.00005	0.000300	0.00432	< 0.0001	-
	WQ7	Surface		5/28/2013	0.000170	0.000170	0.00150	0.173	< 0.00005	0.000300	0.00425	< 0.0001	-
	WQ7	Surface	Dup	6/4/2013	0.000180	0.000260	0.00270	0.128	< 0.00005	0.000300	0.00454	< 0.0001	-
	WQ7	Surface		6/4/2013	0.000170	0.000260	0.00170	0.128	< 0.00005	0.000300	0.00440	< 0.0001	-

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					Uranium (U)-Total	Vanadium (V)-Total	Zinc (Zn)-Total	Aluminum (Al)-Dissolved	Antimony (Sb)-Dissolved	Arsenic (As)-Dissolved	Barium (Ba)-Dissolved	Beryllium (Be)-Dissolved	Bismuth (Bi)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ7	Surface		6/11/2013	0.000130	< 0.00005	< 0.0005	0.0760	< 0.00005	< 0.0001	0.00503	< 0.0001	-
	WQ7	Surface	Dup	6/18/2013	0.000140	< 0.00005	< 0.0005	0.114	0.0000700	< 0.0001	0.00536	< 0.0001	-
	WQ7	Surface		6/18/2013	0.000140	< 0.00005	0.00180	0.112	< 0.00005	< 0.0001	0.00518	< 0.0001	-
	WQ7	Surface		4/13/2014	0.000320	0.00202	0.0404	0.0160	<0.00005	0.000200	0.00773	<0.0001	-
	WQ7	Surface		7/2/2014	0.000100	0.00105	0.00300	0.0240	<0.00005	0.000400	0.00691	<0.0001	-
	WQ7	Surface		9/24/2014	0.000250	0.000520	0.00230	0.0140	<0.00005	0.000500	0.0103	<0.0001	-
	WQ7	Surface		12/9/2014	0.000230	0.000480	0.00110	<0.002	<0.00005	0.000400	0.00825	<0.0001	-
L1812856-9	WQ7	Surface		8/10/2016	0.000119	0.000820	<0.0030	0.0281	<0.00010	0.000620	0.00779	<0.00010	<0.000050
L1815654-9	WQ7	Surface		8/16/2016	0.000128	0.000790	<0.0030	0.0205	<0.00010	0.000600	0.00806	<0.00010	<0.000050
L1819041-2	WQ7	Surface		8/23/2016	0.000115	0.000790	<0.0030	0.0219	<0.00010	0.000650	0.00825	<0.00010	<0.000050
L1823224-2	WQ7	Surface		8/31/2016	0.000113	0.000690	<0.0030	0.0194	<0.00010	0.000620	0.00827	<0.00010	<0.000050
L1826303-7	WQ7	Surface		9/7/2016	0.000121	0.000580	<0.0030	0.0233	<0.00010	0.000520	0.00673	<0.00010	<0.000050
L1913531-3	WQ7	Surface		4/12/2017	0.000209	0.000720	<0.0030	0.0101	<0.00010	0.000400	0.00871	<0.00010	<0.000050
L1926080-8	WQ7	Surface	Dup	5/11/2017	0.000168	0.00133	<0.0030	0.162	<0.00010	0.000440	0.00607	<0.00010	<0.000050
L1926080-4	WQ7	Surface		5/11/2017	0.000171	0.00127	<0.0030	0.173	<0.00010	0.000460	0.00618	<0.00010	<0.000050
L1939712-7	WQ7	Surface		6/7/2017	0.000192	0.00107	<0.0030	0.0986	<0.00010	0.000460	0.00507	<0.00010	<0.000050
L1962414-3	WQ7	Surface		7/19/2017	0.000111	0.000670	<0.0030	0.0141	<0.00010	0.000490	0.00742	<0.00010	<0.000050
L1984944-5	WQ7	Surface		8/30/2017	0.000134	0.000610	<0.0030	0.00910	<0.00010	0.000660	0.0103	<0.00010	<0.000050
L1988832-4	WQ7	Surface		9/9/2017	0.000120	0.000540	<0.0030	0.00790	<0.00010	0.000620	0.0100	<0.00010	<0.000050
L2009845-2	WQ7	Surface		10/17/2017	0.000172	0.00165	0.00600	0.0154	<0.00010	0.000530	0.00747	<0.00010	<0.000050
L2020333-6	WQ7	Surface	Dup	11/7/2017	0.000111	0.000590	<0.0030	0.0378	<0.00010	0.000470	0.00640	<0.00010	<0.000050
L2020333-2	WQ7	Surface		11/7/2017	0.000101	0.000600	<0.0030	0.0366	<0.00010	0.000450	0.00657	<0.00010	<0.000050
L2034610-2	WQ7	Surface		12/11/2017	0.000118	0.000530	<0.0030	0.0191	<0.00010	0.000420	0.00721	<0.00010	<0.000050
L2049678-1	WQ7	Surface		1/24/2018	0.000159	0.000610	<0.0030	0.0111	<0.00010	0.000430	0.00765	<0.00010	<0.000050
L2062480-2	WQ7	Surface		2/28/2018	0.000175	<0.00050	<0.0030	0.00740	<0.00010	0.000410	0.00858	<0.00010	<0.000050
L2074294-1	WQ7	Surface		3/28/2018	0.000212	<0.00050	<0.0030	0.00650	<0.00010	0.000370	0.00708	<0.00010	<0.000050
L2081503-1	WQ7	Surface		4/17/2018	0.000241	0.000520	<0.0030	0.00860	<0.00010	0.000430	0.00868	<0.00010	<0.000050
L2097084-8	WQ7	Surface	Dup	5/16/2018	0.000324	0.00342	0.00420	0.158	<0.00010	0.000400	0.00408	<0.00010	<0.000050
L2097084-1	WQ7	Surface		5/16/2018	0.000296	0.00321	0.00420	0.153	<0.00010	0.000390	0.00381	<0.00010	<0.000050
L2104479-1	WQ7	Surface		5/30/2018	0.000158	0.00116	<0.0030	0.0760	<0.00010	0.000470	0.00490	<0.00010	<0.000050
L2132128-7	WQ7	Surface	Dup	7/17/2018	0.000110	0.000840	<0.0030	0.0189	<0.00010	0.000560	0.00787	<0.00010	<0.000050
L2132128-1	WQ7	Surface		7/17/2018	0.000107	0.000900	<0.0030	0.0155	<0.00010	0.000470	0.00773	<0.00010	<0.000050
L2144782-2	WQ7	Surface		8/9/2018	0.000119	0.000820	<0.0030	0.0138	<0.00010	0.000610	0.00918	<0.00010	<0.000050
L2164448-4	WQ7	Surface	Dup	9/12/2018	0.000176	0.00105	<0.0030	0.00780	<0.00010	0.000570	0.00960	<0.00010	<0.000050
L2164448-3	WQ7	Surface		9/12/2018	0.000184	0.000930	<0.0030	0.00790	<0.00010	0.000560	0.00952	<0.00010	<0.000050
L2187638-4	WQ7	Surface	Dup	10/24/2018	0.000116	0.000640	<0.0030	0.0128	<0.00010	0.000440	0.00680	<0.00010	<0.000050
L2187638-3	WQ7	Surface		10/24/2018	0.000108	0.000560	<0.0030	0.0121	<0.00010	0.000440	0.00736	<0.00010	<0.000050
L2203408-2	WQ7	Surface		11/27/2018	0.000119	0.000640	<0.0030	0.0288	<0.00010	0.000500	0.00627	<0.00010	<0.000050
L2213684-1	WQ7	Surface		12/19/2018	0.000128	<0.00050	<0.0030	0.0155	<0.00010	0.000440	0.00674	<0.00010	<0.000050
L2227101-6	WQ7	Surface	Dup	1/29/2019	0.000154	<0.00050	<0.0030	0.00950	<0.00010	0.000440	0.00785	<0.00010	<0.000050
L2227101-1	WQ7	Surface		1/29/2019	0.000168	0.000520	<0.0030	0.00980	<0.00010	0.000420	0.00757	<0.00010	<0.000050
L2232050-4	WQ7	Surface		2/11/2019	0.000188	<0.00050	<0.0030	0.00870	<0.00010	0.000400	0.00806	<0.00010	<0.000050
L2245144-4	WQ7	Surface		3/14/2019	0.000259	0.000550	<0.0030	0.00630	<0.00010	0.000440	0.00839	<0.00010	<0.000050
L2256054-1	WQ7	Surface		4/9/2019	0.000167	0.000680	<0.0030	0.0186	<0.00010	0.000440	0.00809	<0.00010	<0.000050

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					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2269368-6	WQ7	Surface	Dup	5/4/2019	0.000154	0.00117	<0.0030	0.113	<0.00010	0.000490	0.00534	<0.00010	<0.000050
L2269368-1	WQ7	Surface		5/4/2019	0.000140	0.00105	<0.0030	0.111	<0.00010	0.000500	0.00520	<0.00010	<0.000050
L2277964-4	WQ7	Surface		5/21/2019	0.000304	0.00367	0.00450	0.195	<0.00010	0.000480	0.00543	<0.00010	<0.000050
L2282191-2	WQ7	Surface		5/28/2019	0.000139	0.00133	<0.0030	0.101	0.000100	0.000430	0.00496	<0.00010	<0.000050
L2282975-1	WQ7	Surface		5/29/2019	0.000179	0.000900	<0.0030	0.0872	<0.00010	0.000440	0.00520	<0.00010	<0.000050
L2286702-5	WQ7	Surface	Dup	6/4/2019	0.000132	0.000720	<0.0030	0.0613	<0.00010	0.000450	0.00514	<0.00010	<0.000050
L2286702-1	WQ7	Surface		6/4/2019	0.000127	0.000710	<0.0030	0.0627	<0.00010	0.000430	0.00536	<0.00010	<0.000050
L2313851-2	WQ7	Surface		7/18/2019	0.000149	0.000770	<0.0030	0.0783	<0.00010	0.000570	0.00530	<0.00010	<0.000050
L2328474-3	WQ7	Surface		8/12/2019	0.000135	0.000700	<0.0030	0.0689	<0.00010	0.000580	0.00579	<0.00010	<0.000050
L2349445-1	WQ7	Surface		9/16/2019	0.000109	0.000650	<0.0030	0.0198	<0.00010	0.000570	0.00740	<0.00010	<0.000050
L2371052-1	WQ7	Surface		10/22/2019	0.000112	0.000520	<0.0030	0.0536	<0.00010	0.000480	0.00614	<0.00010	<0.000050
L2388381-1	WQ7	Surface		11/25/2019	0.000129	0.000580	<0.0030	0.0931	<0.00010	0.000410	0.00503	<0.00010	<0.000050
VA19A0791-001	WQ7	Surface		12/17/2019	0.000118	0.000500	<0.0030	0.0380	<0.00010	0.000420	0.00618	<0.000020	<0.000050
VA20A0960-001	WQ7	Surface		1/27/2020	0.000149	<0.00050	<0.0030	0.0167	<0.00010	0.000380	0.00702	<0.000020	<0.000050
VA20A2126-004	WQ7	Surface		2/19/2020	0.000173	<0.00050	<0.0030	0.0124	<0.00010	0.000450	0.00723	<0.000020	<0.000050
VA20A3691-002	WQ7	Surface		3/18/2020	0.000207	<0.00050	<0.0030	0.00880	<0.00010	0.000360	0.00794	<0.000020	<0.000050
VA20A4555-002	WQ7	Surface		4/7/2020	0.000215	0.000530	0.00440	0.00800	<0.00010	0.000390	0.00814	<0.000020	<0.000050
VA20A6218-002	WQ7	Surface		5/7/2020	0.000127	0.000740	<0.0030	0.140	<0.00010	0.000340	0.00461	0.0000220	<0.000050
VA20A6503-003	WQ7	Surface		5/13/2020	0.000158	0.000880	<0.0030	0.151	<0.00010	0.000370	0.00472	<0.000020	<0.000050
VA20A6869-001	WQ7	Surface		5/20/2020	0.000195	0.000880	<0.0030	0.152	<0.00010	0.000340	0.00422	0.0000350	<0.000050
VA20A7367-001	WQ7	Surface		5/28/2020	0.000185	0.00100	<0.0030	0.103	<0.00010	0.000370	0.00448	<0.000020	<0.000050
VA20A7672-004	WQ7	Surface		6/2/2020	0.000146	0.000660	<0.0030	0.0850	<0.00010	0.000410	0.00430	0.0000200	<0.000050
VA20A9918-005	WQ7	Surface	Dup	7/6/2020	0.000139	0.000580	<0.0030	0.0660	<0.00010	0.000510	0.00588	<0.000020	<0.000050
VA20A9918-001	WQ7	Surface		7/6/2020	0.000137	0.000520	<0.0030	0.0642	<0.00010	0.000510	0.00571	<0.000020	<0.000050
VA20B2156-004	WQ7	Surface		8/5/2020	0.000126	0.000670	<0.0030	0.0198	<0.00010	0.000580	0.00748	<0.000020	<0.000050
VA20B2542-005	WQ7	Surface	Dup	8/11/2020	0.000136	0.000670	<0.0030	0.0229	<0.00010	0.000590	0.00757	<0.000020	<0.000050
VA20B2542-003	WQ7	Surface		8/11/2020	0.000134	0.000670	<0.0030	0.0217	<0.00010	0.000580	0.00759	<0.000020	<0.000050
VA20B3218-001	WQ7	Surface		8/18/2020	0.000125	0.000910	<0.0030	0.0214	<0.00010	0.000550	0.00730	<0.000020	<0.000050
VA20B3609-002	WQ7	Surface		8/24/2020	0.000126	0.000670	<0.0030	0.0217	<0.00010	0.000560	0.00747	<0.000020	<0.000050
VA20B4443-003	WQ7	Surface		9/2/2020	0.000123	0.000570	<0.0030	0.0190	<0.00010	0.000550	0.00742	<0.000020	<0.000050
VA20B7624-001	WQ7	Surface		10/6/2020	0.000130	0.000540	<0.0030	0.0133	<0.00010	0.000510	0.00763	<0.000020	<0.000050
VA20C0298-001	WQ7	Surface		11/5/2020	0.000154	0.00109	<0.0030	0.183	<0.00010	0.000420	0.00549	<0.000020	<0.000050
	WQ8	Surface		4/19/2011	0.000100	< 0.0001	0.00320	< 0.002	< 0.00005	< 0.0001	0.00531	< 0.0001	-
	WQ8	Surface		5/17/2011	0.0000700	0.000200	0.00180	0.00300	< 0.00005	0.000400	0.00565	< 0.0001	-
	WQ8	Surface	Dup	5/24/2011	0.0000900	< 0.0001	0.00230	-	< 0.00005	0.000400	0.00536	< 0.0001	-
	WQ8	Surface		5/24/2011	0.0000900	< 0.0001	0.00460	-	< 0.00005	0.000400	0.00528	< 0.0001	-
	WQ8	Surface		5/30/2011	< 0.00005	< 0.0001	0.00580	0.00700	< 0.00005	0.000400	0.00441	< 0.0001	-
	WQ8	Surface		6/6/2011	0.0000900	0.000200	0.00470	0.0180	< 0.00005	0.000400	0.00566	< 0.0001	-
	WQ8	Surface	Dup	6/13/2011	0.0000900	0.000400	0.00110	0.0180	< 0.00005	0.000400	0.00586	< 0.0001	-
	WQ8	Surface		6/13/2011	0.000100	0.000300	0.00120	0.0180	< 0.00005	0.000400	0.00577	< 0.0001	-
	WQ8	Surface		7/18/2011	0.0000900	0.000600	0.00120	0.0100	< 0.00005	0.000500	0.00585	< 0.0001	-
	WQ8	Surface		8/15/2011	0.0000900	0.000300	0.00350	0.00800	< 0.00005	0.000400	0.00566	< 0.0001	-
	WQ8	Surface		9/19/2011	0.0000900	0.000100	< 0.0005	0.00300	< 0.00005	0.000400	0.00599	< 0.0001	-
	WQ8	Surface		10/17/2011	0.0000800	0.000100	0.0116	0.00200	< 0.00005	0.000400	0.00581	< 0.0001	-

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Uranium (U)-Total	Vanadium (V)-Total	Zinc (Zn)-Total	Aluminum (Al)-Dissolved	Antimony (Sb)-Dissolved	Arsenic (As)-Dissolved	Barium (Ba)-Dissolved	Beryllium (Be)-Dissolved	Bismuth (Bi)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ8	Surface		11/14/2011	0.0000900	0.000200	0.00140	< 0.002	< 0.00005	0.000500	0.00553	< 0.0001	-
	WQ8	Surface		12/12/2011	0.000120	0.000400	0.000700	< 0.002	< 0.00005	0.000500	0.00594	< 0.0001	-
	WQ8	Surface		1/12/2012	0.0000900	0.000100	0.00140	< 0.002	< 0.00005	0.000500	0.00605	< 0.0001	-
	WQ8	Surface		2/13/2012	0.0000900	0.000100	< 0.0005	< 0.002	< 0.00005	0.000400	0.00633	< 0.0001	-
	WQ8	Surface		3/12/2012	0.0000900	< 0.0001	0.000900	< 0.002	< 0.00005	0.000500	0.00589	< 0.0001	-
	WQ8	Surface		4/16/2012	0.0000800	0.000200	< 0.0005	< 0.002	< 0.00005	0.000400	0.00593	< 0.0001	-
	WQ8	Surface		5/14/2012	0.000100	< 0.0001	0.00200	0.00200	< 0.00005	0.000500	0.00611	< 0.0001	-
	WQ8	Surface		5/22/2012	0.0000900	0.000100	0.00600	0.0100	< 0.00005	0.000400	0.00584	< 0.0001	-
	WQ8	Surface		5/28/2012	0.0000800	0.000200	0.00110	0.00900	< 0.00005	0.000400	0.00594	< 0.0001	-
	WQ8	Surface		6/4/2012	0.0000900	< 0.0001	< 0.0005	0.00600	< 0.00005	0.000300	0.00556	< 0.0001	-
	WQ8	Surface		6/11/2012	0.0000500	< 0.0001	0.00100	0.00700	0.0000600	0.000400	0.00734	< 0.0001	-
	WQ8	Surface		6/18/2012	0.000100	0.000200	0.00160	0.00500	< 0.00005	0.000500	0.00539	< 0.0001	-
	WQ8	Surface		7/16/2012	0.0000700	0.000200	< 0.0005	< 0.002	< 0.00005	0.000400	0.00608	< 0.0001	-
	WQ8	Surface		8/13/2012	0.000100	0.000300	0.00700	< 0.002	< 0.00005	0.000500	0.00567	< 0.0001	-
	WQ8	Surface		9/17/2012	0.000100	0.000500	< 0.0005	0.00200	< 0.00005	0.000400	0.00628	< 0.0001	-
	WQ8	Surface		10/15/2012	0.000100	0.000200	0.00280	< 0.002	< 0.00005	0.000400	0.00595	< 0.0001	-
	WQ8	Surface		11/13/2012	0.000120	< 0.0001	0.000600	< 0.002	< 0.00005	0.000400	0.00555	< 0.0001	-
	WQ8	Surface		1/13/2013	0.000100	< 0.0001	0.00150	< 0.002	< 0.00005	0.000500	0.00617	< 0.0001	-
	WQ8	Surface		2/12/2013	0.0000800	< 0.0001	0.00300	< 0.002	< 0.00005	0.000400	0.00605	< 0.0001	-
	WQ8	Surface	Dup	3/11/2013	0.000100	< 0.00005	0.00560	< 0.002	< 0.00005	0.000500	0.00537	< 0.0001	-
	WQ8	Surface		3/11/2013	0.000100	< 0.00005	0.00200	< 0.002	< 0.00005	0.000500	0.00554	< 0.0001	-
	WQ8	Surface		4/15/2013	0.0000800	< 0.00005	0.00150	< 0.002	< 0.00005	0.00170	0.0132	< 0.0001	-
	WQ8	Surface		5/13/2013	0.0000800	< 0.00005	0.00200	0.00400	< 0.00005	0.000500	0.00505	< 0.0001	-
	WQ8	Surface		5/22/2013	0.0000600	0.000270	0.00420	0.00900	< 0.00005	0.000700	0.00744	< 0.0001	-
	WQ8	Surface		5/27/2013	0.0000800	< 0.00005	< 0.0005	0.00700	< 0.00005	0.000500	0.00504	< 0.0001	-
	WQ8	Surface		6/6/2013	0.0000900	< 0.00005	< 0.0005	0.00500	< 0.00005	0.000400	0.00556	< 0.0001	-
	WQ8	Surface		6/10/2013	0.0000900	< 0.00005	< 0.0005	0.0110	< 0.00005	0.000200	0.00562	< 0.0001	-
	WQ8	Surface		6/17/2013	0.0000800	< 0.00005	0.00140	0.00700	0.0000500	< 0.0001	0.00523	< 0.0001	-
	WQ8	Surface		4/13/2014	0.0000800	< 0.00005	< 0.0005	< 0.002	< 0.00005	0.000300	0.00521	< 0.0001	-
	WQ8	Surface		7/2/2014	0.0000800	0.000690	0.000900	0.00200	< 0.00005	0.000300	0.00537	< 0.0001	-
	WQ8	Surface		9/24/2014	0.0000900	0.000230	0.00250	< 0.002	< 0.00005	0.000500	0.00595	< 0.0001	-
	WQ8	Surface	Dup	12/9/2014	0.0000800	0.000580	0.00250	< 0.002	< 0.00005	0.000500	0.00493	< 0.0001	-
	WQ8	Surface		12/9/2014	0.0000900	0.000680	0.00250	< 0.002	< 0.00005	0.000600	0.00506	< 0.0001	-
L1913531-6	WQ8	Surface		4/12/2017	0.0000730	< 0.00050	< 0.0030	< 0.0030	< 0.00010	0.000450	0.00345	< 0.00010	< 0.000050
L1926080-3	WQ8	Surface		5/11/2017	0.0000820	< 0.00050	< 0.0030	< 0.0030	< 0.00010	0.000530	0.00460	< 0.00010	< 0.000050
L1939712-8	WQ8	Surface		6/7/2017	0.0000890	0.000550	< 0.0030	0.00370	< 0.00010	0.000500	0.00488	< 0.00010	< 0.000050
L1962414-4	WQ8	Surface		7/19/2017	0.0000900	< 0.00050	< 0.0030	< 0.0030	< 0.00010	0.000500	0.00443	< 0.00010	< 0.000050
L1984944-6	WQ8	Surface		8/30/2017	0.0000960	< 0.00050	< 0.0030	< 0.0030	< 0.00010	0.000500	0.00506	< 0.00010	< 0.000050
L1987355-1	WQ8	Surface		9/5/2017	0.000100	< 0.00050	< 0.0030	< 0.0030	< 0.00010	0.000520	0.00501	< 0.00010	< 0.000050
L2009845-4	WQ8	Surface		10/17/2017	0.0000960	< 0.00050	< 0.0030	< 0.0030	< 0.00010	0.000570	0.00618	< 0.00010	< 0.000050
L2020333-4	WQ8	Surface		11/7/2017	0.0000790	< 0.00050	< 0.0030	< 0.0030	< 0.00010	0.000580	0.00519	< 0.00010	< 0.000050
L2034610-1	WQ8	Surface		12/11/2017	0.0000910	< 0.00050	< 0.0030	< 0.0030	< 0.00010	0.000550	0.00523	< 0.00010	< 0.000050
L2049224-5	WQ8	Surface	Dup	1/23/2018	0.0000830	< 0.00050	< 0.0030	< 0.0030	< 0.00010	0.000590	0.00552	< 0.00010	< 0.000050
L2049224-1	WQ8	Surface		1/23/2018	0.0000830	< 0.00050	< 0.0030	< 0.0030	< 0.00010	0.000610	0.00543	< 0.00010	< 0.000050

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					Uranium (U)-Total	Vanadium (V)-Total	Zinc (Zn)-Total	Aluminum (Al)-Dissolved	Antimony (Sb)-Dissolved	Arsenic (As)-Dissolved	Barium (Ba)-Dissolved	Beryllium (Be)-Dissolved	Bismuth (Bi)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2057954-1	WQ8	Surface		2/15/2018	0.0000830	<0.00050	0.00340	<0.0030	<0.00010	0.000580	0.00537	<0.00010	<0.000050
L2073898-2	WQ8	Surface		3/27/2018	0.0000780	<0.00050	<0.0030	<0.0030	<0.00010	0.000540	0.00493	<0.00010	<0.000050
L2081503-2	WQ8	Surface		4/17/2018	0.0000900	<0.00050	<0.0030	<0.0030	<0.00010	0.000580	0.00511	<0.00010	<0.000050
L2096380-1	WQ8	Surface		5/15/2018	0.0000880	<0.00050	<0.0030	0.00750	<0.00010	0.000510	0.00530	<0.00010	<0.000050
L2104479-2	WQ8	Surface		5/30/2018	0.0000800	0.000660	<0.0030	0.0117	<0.00010	0.000520	0.00533	<0.00010	<0.000050
L2132128-2	WQ8	Surface		7/17/2018	0.0000830	<0.00050	<0.0030	0.00850	<0.00010	0.000470	0.00494	<0.00010	<0.000050
L2144782-1	WQ8	Surface		8/9/2018	0.0000860	<0.00050	<0.0030	0.00440	<0.00010	0.000510	0.00564	<0.00010	<0.000050
L2164448-2	WQ8	Surface		9/12/2018	0.000100	0.000550	<0.0030	0.00590	<0.00010	0.000580	0.00724	<0.00010	<0.000050
L2187638-2	WQ8	Surface		10/24/2018	0.0000850	<0.00050	<0.0030	<0.0030	<0.00010	0.000560	0.00498	<0.00010	<0.000050
L2203408-3	WQ8	Surface		11/27/2018	0.0000910	<0.00050	<0.0030	<0.0030	<0.00010	0.000610	0.00537	<0.00010	<0.000050
L2213684-6	WQ8	Surface	Dup	12/19/2018	0.0000870	<0.00050	<0.0030	<0.0030	<0.00010	0.000630	0.00489	<0.00010	<0.000050
L2213684-2	WQ8	Surface		12/19/2018	0.0000880	<0.00050	<0.0030	<0.0030	<0.00010	0.000570	0.00485	<0.00010	<0.000050
L2227101-2	WQ8	Surface		1/29/2019	0.0000910	<0.00050	<0.0030	<0.0030	<0.00010	0.000620	0.00542	<0.00010	<0.000050
L2232050-5	WQ8	Surface		2/11/2019	0.0000970	<0.00050	<0.0030	<0.0030	<0.00010	0.000590	0.00493	<0.00010	<0.000050
L2245144-1	WQ8	Surface		3/14/2019	0.0000930	<0.00050	<0.0030	<0.0030	<0.00010	0.000570	0.00487	<0.00010	<0.000050
L2256054-2	WQ8	Surface		4/9/2019	0.0000750	<0.00050	<0.0030	<0.0030	<0.00010	0.000480	0.00406	<0.00010	<0.000050
L2277964-1	WQ8	Surface		5/21/2019	0.0000750	<0.00050	<0.0030	<0.0030	<0.00010	0.000540	0.00482	<0.00010	<0.000050
L2286702-2	WQ8	Surface		6/4/2019	0.0000840	<0.00050	<0.0030	0.00630	<0.00010	0.000480	0.00462	<0.00010	<0.000050
L2313851-3	WQ8	Surface		7/18/2019	0.0000840	<0.00050	<0.0030	0.00320	<0.00010	0.000510	0.00499	<0.00010	<0.000050
L2328474-4	WQ8	Surface		8/12/2019	0.0000880	<0.00050	<0.0030	0.00390	<0.00010	0.000540	0.00480	<0.00010	<0.000050
L2349445-2	WQ8	Surface		9/16/2019	0.0000880	<0.00050	<0.0030	<0.0030	<0.00010	0.000570	0.00518	<0.00010	<0.000050
L2371052-2	WQ8	Surface		10/22/2019	0.0000800	<0.00050	<0.0030	<0.0030	<0.00010	0.000530	0.00562	<0.00010	<0.000050
L2388381-2	WQ8	Surface		11/25/2019	0.0000810	<0.00050	<0.0030	<0.0030	<0.00010	0.000500	0.00630	<0.00010	<0.000050
VA19A0791-002	WQ8	Surface		12/17/2019	0.0000760	<0.00050	<0.0030	0.00120	<0.00010	0.000550	0.00664	<0.000020	<0.000050
VA20A0960-002	WQ8	Surface		1/27/2020	0.0000790	<0.00050	<0.0030	<0.0010	<0.00010	0.000560	0.00681	<0.000020	<0.000050
VA20A2126-002	WQ8	Surface		2/19/2020	0.0000900	<0.00050	<0.0030	<0.0010	<0.00010	0.000520	0.00563	<0.000020	<0.000050
VA20A3691-003	WQ8	Surface		3/18/2020	0.0000880	<0.00050	<0.0030	<0.0010	<0.00010	0.000560	0.00611	<0.000020	<0.000050
VA20A4555-003	WQ8	Surface		4/7/2020	0.000101	<0.00050	<0.0030	0.00110	<0.00010	0.000550	0.00627	<0.000020	<0.000050
VA20A6356-001	WQ8	Surface		5/11/2020	0.0000840	<0.00050	<0.0030	0.00660	<0.00010	0.000530	0.00566	<0.000020	<0.000050
VA20A7797-004	WQ8	Surface		6/3/2020	0.0000850	<0.00050	<0.0030	0.00330	<0.00010	0.000520	0.00571	<0.000020	<0.000050
VA20B0021-004	WQ8	Surface		7/7/2020	0.0000930	0.000560	<0.0030	0.00730	<0.00010	0.000480	0.00541	<0.000020	<0.000050
VA20B2156-005	WQ8	Surface		8/5/2020	0.0000870	<0.00050	<0.0030	0.00340	<0.00010	0.000500	0.00541	<0.000020	<0.000050
VA20B4443-004	WQ8	Surface		9/2/2020	0.0000850	<0.00050	<0.0030	0.00320	<0.00010	0.000560	0.00546	<0.000020	<0.000050
VA20B7624-002	WQ8	Surface		10/6/2020	0.000101	<0.00050	<0.0030	0.00220	<0.00010	0.000560	0.00567	<0.000020	<0.000050
VA20C0298-002	WQ8	Surface		11/5/2020	0.0000780	0.000860	<0.0030	0.00870	<0.00010	0.000440	0.00546	<0.000020	<0.000050
	WQ9	Surface	Dup	3/30/2011	0.000140	< 0.0001	< 0.001	< 0.002	< 0.00005	0.000300	0.00777	< 0.0001	-
	WQ9	Surface		3/30/2011	0.000140	< 0.0001	0.00400	< 0.002	< 0.00005	0.000400	0.00733	< 0.0001	-
	WQ9	Surface	Dup	4/19/2011	0.000150	< 0.0001	0.00280	0.00200	< 0.00005	0.000100	0.00790	< 0.0001	-
	WQ9	Surface		4/19/2011	0.000160	< 0.0001	0.00200	0.0310	< 0.00005	0.000200	0.00863	< 0.0001	-
	WQ9	Surface		5/17/2011	0.000100	0.000700	0.00390	0.0420	< 0.00005	0.000400	0.00688	< 0.0001	-
	WQ9	Surface		5/24/2011	0.000100	0.000500	0.00320	-	< 0.00005	0.000400	0.00709	< 0.0001	-
	WQ9	Surface	Dup	5/30/2011	0.000110	0.000500	0.00220	0.0580	< 0.00005	0.000400	0.00647	< 0.0001	-
	WQ9	Surface		5/30/2011	0.000110	0.000400	0.00490	0.0660	< 0.00005	0.000400	0.00661	< 0.0001	-
	WQ9	Surface		6/6/2011	0.000110	0.000400	0.00120	0.0470	< 0.00005	0.000500	0.00610	< 0.0001	-

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					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ9	Surface		6/13/2011	0.000110	0.000500	0.00120	0.0310	< 0.00005	0.000500	0.00722	< 0.0001	-
	WQ9	Surface		7/18/2011	0.000100	0.000700	0.00100	0.0290	0.0000600	0.000600	0.00754	< 0.0001	-
	WQ9	Surface		8/15/2011	0.0000900	0.000400	0.000800	0.0100	< 0.00005	0.000600	0.00630	< 0.0001	-
	WQ9	Surface		9/19/2011	0.000110	0.000300	0.000700	0.00500	< 0.00005	0.000600	0.00809	< 0.0001	-
	WQ9	Surface		10/17/2011	0.000100	0.000200	< 0.0005	0.00700	< 0.00005	0.000600	0.00740	< 0.0001	-
	WQ9	Surface		11/14/2011	0.000110	0.000300	0.00120	0.00400	< 0.00005	0.000600	0.00646	< 0.0001	-
	WQ9	Surface		12/12/2011	0.000100	0.000200	< 0.0005	0.00300	< 0.00005	0.000500	0.00711	< 0.0001	-
	WQ9	Surface		1/12/2012	0.000120	0.000300	0.00110	0.00300	< 0.00005	0.000500	0.00766	< 0.0001	-
	WQ9	Surface		2/13/2012	0.000120	0.000200	0.000800	< 0.002	< 0.00005	0.000500	0.00740	< 0.0001	-
	WQ9	Surface		3/12/2012	0.000130	0.000200	0.00150	< 0.002	< 0.00005	0.000400	0.00723	< 0.0001	-
	WQ9	Surface		4/17/2012	0.000150	0.000700	0.00210	0.0130	0.0000500	0.000600	0.00908	< 0.0001	-
	WQ9	Surface		5/14/2012	0.000120	0.000600	0.00360	0.0450	< 0.00005	0.000400	0.00705	< 0.0001	-
	WQ9	Surface	Dup	5/22/2012	0.000110	0.000600	0.000500	0.0450	< 0.00005	0.000400	0.00664	< 0.0001	-
	WQ9	Surface		5/22/2012	0.000110	0.000400	0.00300	0.0480	< 0.00005	0.000300	0.00668	< 0.0001	-
	WQ9	Surface		5/28/2012	0.000110	0.000600	0.00200	0.0420	0.0000500	0.000500	0.00656	< 0.0001	-
	WQ9	Surface		6/4/2012	0.000110	0.000300	< 0.0005	0.0270	< 0.00005	0.000400	0.00614	< 0.0001	-
	WQ9	Surface		6/11/2012	0.0000700	0.000200	0.00120	0.0330	0.0000600	0.000500	0.00614	< 0.0001	-
	WQ9	Surface		6/18/2012	0.000110	0.000300	0.00150	0.0210	< 0.00005	0.000500	0.00602	< 0.0001	-
	WQ9	Surface		7/16/2012	0.0000800	0.000400	< 0.0005	0.00500	< 0.00005	0.000500	0.00682	< 0.0001	-
	WQ9	Surface		8/13/2012	0.000110	0.000400	0.000900	< 0.002	< 0.00005	0.000600	0.00706	< 0.0001	-
	WQ9	Surface		9/17/2012	0.000100	0.000300	< 0.0005	0.00500	< 0.00005	0.000500	0.00726	< 0.0001	-
	WQ9	Surface		10/16/2012	0.000110	0.000200	0.00250	0.00300	< 0.00005	0.000500	0.00734	< 0.0001	-
	WQ9	Surface		11/12/2012	0.000110	< 0.0001	0.00140	0.00300	< 0.00005	0.000500	0.00782	< 0.0001	-
	WQ9	Surface	Dup	12/10/2012	0.000120	< 0.0001	0.000700	0.00300	< 0.00005	0.000400	0.00737	< 0.0001	-
	WQ9	Surface		12/10/2012	0.000120	< 0.0001	0.000800	0.00300	< 0.00005	0.000500	0.00719	< 0.0001	-
	WQ9	Surface		1/15/2013	0.000120	< 0.0001	0.00190	< 0.002	< 0.00005	0.000500	0.00742	< 0.0001	-
	WQ9	Surface		2/13/2013	0.000100	< 0.0001	0.00370	0.00200	< 0.00005	0.000400	0.00705	< 0.0001	-
	WQ9	Surface		3/12/2013	0.000130	< 0.00005	0.00270	< 0.002	< 0.00005	0.000500	0.00681	< 0.0001	-
	WQ9	Surface		4/16/2013	0.000110	0.000230	0.00120	0.0180	< 0.00005	0.000500	0.00733	< 0.0001	-
	WQ9	Surface		5/14/2013	0.000100	0.000160	0.00150	0.0560	< 0.00005	0.000500	0.00580	< 0.0001	-
	WQ9	Surface		5/21/2013	0.000100	0.000440	0.000800	0.0240	< 0.00005	0.000400	0.00628	< 0.0001	-
	WQ9	Surface	Dup	5/28/2013	0.000100	< 0.00005	< 0.0005	0.0520	< 0.00005	0.000500	0.00600	< 0.0001	-
	WQ9	Surface		5/28/2013	0.000100	< 0.00005	< 0.0005	0.0530	< 0.00005	0.000500	0.00595	< 0.0001	-
	WQ9	Surface		6/4/2013	0.000110	< 0.00005	< 0.0005	0.0270	< 0.00005	0.000400	0.00584	< 0.0001	-
	WQ9	Surface		6/11/2013	0.000100	< 0.00005	0.00110	0.0200	< 0.00005	0.000300	0.00642	< 0.0001	-
	WQ9	Surface		6/18/2013	0.0000800	< 0.00005	0.000800	0.0240	< 0.00005	< 0.0001	0.00594	< 0.0001	-
	WQ9	Surface		4/13/2014	0.000120	< 0.00005	0.00340	0.00500	< 0.00005	0.000400	0.00707	< 0.0001	-
	WQ9	Surface	Dup	7/2/2014	0.0000900	0.000570	0.00250	0.00600	< 0.00005	0.000500	0.00654	< 0.0001	-
	WQ9	Surface		7/2/2014	< 0.00005	< 0.00005	< 0.0005	0.00600	< 0.00005	0.000500	0.00655	< 0.0001	-
	WQ9	Surface		9/24/2014	0.000130	0.000430	0.00240	0.00400	< 0.00005	0.000600	0.00754	< 0.0001	-
	WQ9	Surface		12/9/2014	0.000100	0.000350	< 0.0005	< 0.002	< 0.00005	0.000500	0.00588	< 0.0001	-
L1812856-10	WQ9	Surface		8/10/2016	0.0000980	< 0.00050	< 0.0030	0.00900	< 0.00010	0.000670	0.00600	< 0.00010	< 0.000050
L1815654-10	WQ9	Surface		8/16/2016	0.000102	0.000550	< 0.0030	0.00690	< 0.00010	0.000710	0.00566	< 0.00010	< 0.000050
L1819041-1	WQ9	Surface		8/23/2016	0.000108	0.000690	< 0.0030	0.00830	< 0.00010	0.000750	0.00613	< 0.00010	< 0.000050

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Uranium (U)-Total	Vanadium (V)-Total	Zinc (Zn)-Total	Aluminum (Al)-Dissolved	Antimony (Sb)-Dissolved	Arsenic (As)-Dissolved	Barium (Ba)-Dissolved	Beryllium (Be)-Dissolved	Bismuth (Bi)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1823224-3	WQ9	Surface		8/31/2016	0.000108	0.000660	<0.0030	0.00620	<0.00010	0.000760	0.00673	<0.00010	<0.000050
L1826303-6	WQ9	Surface	Dup	9/7/2016	0.000105	0.000520	<0.0030	0.00770	<0.00010	0.000750	0.00714	<0.00010	<0.000050
L1826303-10	WQ9	Surface		9/7/2016	0.000122	0.000560	<0.0030	0.0248	<0.00010	0.000560	0.00720	<0.00010	<0.000050
L1913531-7	WQ9	Surface		4/12/2017	0.000117	0.000840	<0.0030	0.00550	<0.00010	0.000460	0.00627	<0.00010	<0.000050
L1926080-5	WQ9	Surface		5/11/2017	0.000118	0.000790	<0.0030	0.0404	<0.00010	0.000540	0.00681	<0.00010	<0.000050
L1939712-9	WQ9	Surface		6/7/2017	0.000123	0.000890	0.00440	0.0230	<0.00010	0.000570	0.00583	<0.00010	<0.000050
L1962414-5	WQ9	Surface		7/19/2017	0.000104	0.000510	<0.0030	0.00450	<0.00010	0.000630	0.00589	<0.00010	<0.000050
L1984944-7	WQ9	Surface		8/30/2017	0.000112	<0.00050	<0.0030	0.00360	<0.00010	0.000620	0.00670	<0.00010	<0.000050
L1988832-5	WQ9	Surface		9/9/2017	0.000112	0.000540	0.00340	0.00400	<0.00010	0.000680	0.00643	<0.00010	<0.000050
L2009845-6	WQ9	Surface	Dup	10/17/2017	0.0000930	0.000700	0.00390	0.00610	<0.00010	0.000570	0.00706	<0.00010	<0.000050
L2009845-3	WQ9	Surface		10/17/2017	0.000114	0.000510	<0.0030	0.00610	<0.00010	0.000570	0.00811	<0.00010	<0.000050
L2020333-3	WQ9	Surface		11/7/2017	0.0000990	0.000660	<0.0030	0.0126	<0.00010	0.000560	0.00688	<0.00010	<0.000050
L2034610-6	WQ9	Surface	Dup	12/11/2017	0.000111	<0.00050	<0.0030	0.00600	<0.00010	0.000550	0.00722	<0.00010	<0.000050
L2034610-3	WQ9	Surface		12/11/2017	0.000106	<0.00050	<0.0030	0.00540	<0.00010	0.000520	0.00648	<0.00010	<0.000050
L2049224-2	WQ9	Surface		1/23/2018	0.000104	<0.00050	<0.0030	<0.0030	<0.00010	0.000560	0.00702	<0.00010	<0.000050
L2057025-1	WQ9	Surface		2/13/2018	0.000120	<0.00050	<0.0030	<0.0030	<0.00010	0.000540	0.00620	<0.00010	<0.000050
L2074294-2	WQ9	Surface		3/28/2018	0.000141	0.000750	<0.0030	<0.0030	<0.00010	0.000510	0.00660	<0.00010	<0.000050
L2081503-3	WQ9	Surface		4/17/2018	0.000136	<0.00050	<0.0030	<0.0040	<0.00010	0.000530	0.00689	<0.00010	<0.000050
L2097084-2	WQ9	Surface		5/16/2018	0.000116	0.000800	<0.0030	0.0385	<0.00010	0.000510	0.00532	<0.00010	<0.000050
L2104479-5	WQ9	Surface	Dup	5/30/2018	0.0000970	0.000890	<0.0030	0.0196	<0.00010	0.000540	0.00599	<0.00010	<0.000050
L2104479-3	WQ9	Surface		5/30/2018	0.0000950	0.000550	<0.0030	0.0207	<0.00010	0.000550	0.00627	<0.00010	<0.000050
L2132128-3	WQ9	Surface		7/17/2018	0.0000940	0.000630	<0.0030	0.00950	<0.00010	0.000590	0.00650	<0.00010	<0.000050
L2144782-3	WQ9	Surface		8/9/2018	0.000112	0.000680	<0.0030	0.00680	<0.00010	0.000650	0.00742	<0.00010	<0.000050
L2164448-5	WQ9	Surface		9/12/2018	0.000111	0.000740	<0.0030	0.00450	<0.00010	0.000690	0.00874	<0.00010	<0.000050
L2187638-5	WQ9	Surface		10/24/2018	0.000106	0.000590	<0.0030	0.00530	<0.00010	0.000540	0.00638	<0.00010	<0.000050
L2203408-4	WQ9	Surface		11/27/2018	0.0000920	<0.00050	<0.0030	0.00870	<0.00010	0.000580	0.00631	<0.00010	<0.000050
L2213684-3	WQ9	Surface		12/19/2018	0.000102	<0.00050	<0.0030	0.00380	<0.00010	0.000550	0.00609	<0.00010	<0.000050
L2227101-3	WQ9	Surface		1/29/2019	0.000112	<0.00050	<0.0030	<0.0030	<0.00010	0.000650	0.00642	<0.00010	<0.000050
L2233329-3	WQ9	Surface		2/13/2019	0.000106	<0.00050	<0.0030	<0.0030	<0.00010	0.000570	0.00617	<0.00010	<0.000050
L2245144-3	WQ9	Surface		3/14/2019	0.000210	0.000860	<0.0030	<0.0030	<0.00010	0.000560	0.00634	<0.00010	<0.000050
L2256054-3	WQ9	Surface		4/9/2019	0.000117	0.000660	<0.0030	0.0175	<0.00010	0.000550	0.00781	<0.00010	<0.000050
L2274397-4	WQ9	Surface		5/14/2019	0.000116	0.000610	<0.0030	0.0378	<0.00010	0.000540	0.00566	<0.00010	<0.000050
L2286702-3	WQ9	Surface		6/4/2019	0.0000910	0.000500	<0.0030	0.0131	<0.00010	0.000560	0.00559	<0.00010	<0.000050
L2313851-4	WQ9	Surface		7/18/2019	0.0000980	0.000570	<0.0030	0.0184	<0.00010	0.000620	0.00612	<0.00010	<0.000050
L2325935-3	WQ9	Surface		8/7/2019	0.0000940	0.000640	<0.0030	0.0147	<0.00010	0.000610	0.00687	<0.00010	<0.000050
L2349445-3	WQ9	Surface		9/16/2019	0.000107	0.000590	<0.0030	0.00680	<0.00010	0.000680	0.00680	<0.00010	<0.000050
L2371052-3	WQ9	Surface		10/22/2019	0.0000920	<0.00050	<0.0030	0.0142	<0.00010	0.000590	0.00673	<0.00010	<0.000050
L2388381-3	WQ9	Surface		11/25/2019	0.0000920	<0.00050	<0.0030	0.0208	<0.00010	0.000530	0.00706	<0.00010	<0.000050
VA19A0791-003	WQ9	Surface		12/17/2019	0.0000940	<0.00050	<0.0030	0.00830	<0.00010	0.000570	0.00738	<0.000020	<0.000050
VA20A0960-005	WQ9	Surface	Dup	1/27/2020	0.000104	<0.00050	<0.0030	0.00400	<0.00010	0.000580	0.00705	<0.000020	<0.000050
VA20A0960-003	WQ9	Surface		1/27/2020	0.000107	<0.00050	<0.0030	0.00470	<0.00010	0.000520	0.00725	<0.000020	<0.000050
VA20A2211-003	WQ9	Surface		2/20/2020	0.000112	<0.00050	0.00770	0.00370	<0.00010	0.000530	0.00687	<0.000020	<0.000050
VA20A3691-004	WQ9	Surface		3/18/2020	0.000130	0.000640	<0.0030	0.00290	<0.00010	0.000530	0.00724	<0.000020	<0.000050
VA20A4555-004	WQ9	Surface		4/7/2020	0.000166	0.00113	<0.0030	0.00310	<0.00010	0.000550	0.00790	<0.000020	<0.000050

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Uranium (U)-Total	Vanadium (V)-Total	Zinc (Zn)-Total	Aluminum (Al)-Dissolved	Antimony (Sb)-Dissolved	Arsenic (As)-Dissolved	Barium (Ba)-Dissolved	Beryllium (Be)-Dissolved	Bismuth (Bi)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
VA20A6218-005	WQ9	Surface	Dup	5/7/2020	0.0000900	<0.00050	<0.0030	0.0646	<0.00010	0.000540	0.00674	<0.000020	<0.000050
VA20A6218-003	WQ9	Surface		5/7/2020	0.0000910	0.000530	<0.0030	0.0339	<0.00010	0.000510	0.00618	<0.000020	<0.000050
VA20A6503-004	WQ9	Surface		5/13/2020	0.000110	0.000540	<0.0030	0.0425	<0.00010	0.000480	0.00633	<0.000020	<0.000050
VA20A6869-006	WQ9	Surface	Dup	5/20/2020	0.000108	0.000550	<0.0030	0.0459	<0.00010	0.000530	0.00639	<0.000020	<0.000050
VA20A6869-002	WQ9	Surface		5/20/2020	0.000111	0.000560	<0.0030	0.0443	<0.00010	0.000520	0.00624	<0.000020	<0.000050
VA20A7367-002	WQ9	Surface		5/28/2020	0.000106	0.000620	<0.0030	0.0237	<0.00010	0.000510	0.00642	<0.000020	<0.000050
VA20A7672-003	WQ9	Surface		6/2/2020	0.0000940	<0.00050	<0.0030	0.0197	<0.00010	0.000480	0.00579	<0.000020	<0.000050
VA20A9918-002	WQ9	Surface		7/6/2020	0.0000870	0.000540	<0.0030	0.0171	<0.00010	0.000610	0.00729	<0.000020	<0.000050
VA20B2156-006	WQ9	Surface		8/5/2020	0.0000990	0.000540	<0.0030	0.00620	<0.00010	0.000640	0.00624	<0.000020	<0.000050
VA20B2426-001	WQ9	Surface		8/10/2020	0.000109	0.000620	<0.0030	0.00680	<0.00010	0.000620	0.00633	<0.000020	<0.000050
VA20B3033-005	WQ9	Surface	Dup	8/17/2020	0.0000940	0.000580	<0.0030	0.00830	<0.00010	0.000630	0.00725	<0.000020	<0.000050
VA20B3033-003	WQ9	Surface		8/17/2020	0.0000980	0.000560	<0.0030	0.00850	<0.00010	0.000630	0.00745	<0.000020	<0.000050
VA20B3609-003	WQ9	Surface		8/24/2020	0.000104	0.000630	<0.0030	0.00700	<0.00010	0.000700	0.00778	<0.000020	<0.000050
VA20B4443-005	WQ9	Surface		9/2/2020	0.000103	0.000600	<0.0030	0.00850	<0.00010	0.000710	0.00705	<0.000020	<0.000050
VA20B7624-003	WQ9	Surface		10/6/2020	0.000104	0.000510	<0.0030	0.00750	<0.00010	0.000710	0.00725	<0.000020	<0.000050
VA20C0298-003	WQ9	Surface		11/5/2020	0.0000940	0.000880	<0.0030	0.0770	0.000120	0.000570	0.00720	<0.000020	<0.000050

Notes:

"-" indicates parameter was not analyzed.

"<" value is below the detection limit

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Boron (B)-Dissolved	Cadmium (Cd)-Dissolved	Calcium (Ca)-Dissolved	Chromium (Cr)-Dissolved	Cobalt (Co)-Dissolved	Copper (Cu)-Dissolved	Iron (Fe)-Dissolved	Lead (Pb)-Dissolved	Lithium (Li)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1989016-1	BI-09	Surface		9/7/2017	<0.010	<0.0000050	12.0	<0.00010	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L2049224-4	BI-09	Surface		1/23/2018	<0.010	<0.0000050	7.90	0.000100	<0.00010	<0.00050	0.0780	<0.000050	<0.0010
L2062480-1	BI-09	Surface		2/27/2018	<0.010	<0.0000050	8.54	0.000120	<0.00010	<0.00050	0.0690	<0.000050	<0.0010
L2073898-1	BI-09	Surface		3/27/2018	<0.010	<0.0000050	9.08	<0.00010	<0.00010	<0.00050	0.0610	<0.000050	<0.0010
L2081505-2	BI-09	Surface	Dup	4/16/2018	<0.010	<0.0000050	8.59	0.000400	<0.00010	<0.00050	0.108	<0.000050	<0.0010
L2081505-1	BI-09	Surface		4/16/2018	<0.010	<0.0000050	8.55	0.000170	<0.00010	<0.00050	0.108	<0.000050	<0.0010
L2096380-2	BI-09	Surface		5/15/2018	<0.010	<0.0000050	4.68	0.000230	<0.00010	0.000580	0.0910	<0.000050	<0.0010
L2102737-3	BI-09	Surface		5/28/2018	<0.010	<0.0000050	6.37	0.000230	<0.00010	0.000610	0.0760	<0.000050	<0.0010
L2132128-4	BI-09	Surface		7/17/2018	<0.010	0.00000650	8.10	<0.00010	<0.00010	<0.00050	0.0450	<0.000050	<0.0010
L2144658-1	BI-09	Surface		8/8/2018	<0.010	<0.0000050	9.27	<0.00010	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L2163669-1	BI-09	Surface		9/11/2018	<0.010	<0.0000050	9.80	0.000100	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L2187638-1	BI-09	Surface		10/24/2018	<0.010	<0.0000050	8.06	0.000140	<0.00010	<0.00050	0.0440	<0.000050	<0.0010
L2204086-3	BI-09	Surface		11/28/2018	<0.010	<0.0000050	6.96	0.000170	<0.00010	0.000610	0.111	<0.000050	<0.0010
L2213684-5	BI-09	Surface		12/19/2018	<0.010	<0.0000050	8.32	0.000130	<0.00010	<0.00050	0.0680	<0.000050	<0.0010
L2227101-5	BI-09	Surface		1/29/2019	<0.010	<0.0000050	8.63	0.000120	<0.00010	<0.00050	0.0540	<0.000050	<0.0010
L2233329-6	BI-09	Surface	Dup	2/13/2019	<0.010	<0.0000050	9.37	<0.00010	<0.00010	<0.00050	0.0490	<0.000050	<0.0010
L2233329-4	BI-09	Surface		2/13/2019	<0.010	<0.0000050	9.41	<0.00010	<0.00010	<0.00050	0.0490	<0.000050	<0.0010
L2245144-5	BI-09	Surface		3/14/2019	<0.010	<0.0000050	9.72	<0.00010	<0.00010	<0.00050	0.0450	<0.000050	<0.0010
L2256054-5	BI-09	Surface		4/9/2019	<0.010	<0.0000050	7.02	0.000380	<0.00010	0.000800	0.207	<0.000050	<0.0010
L2282191-3	BI-09	Surface		5/28/2019	<0.010	<0.0000050	6.34	0.000170	<0.00010	0.000580	0.0890	<0.000050	<0.0010
L2285579-1	BI-09	Surface		6/3/2019	<0.010	<0.0000050	6.89	0.000160	<0.00010	0.000570	0.0720	<0.000050	<0.0010
L2313851-5	BI-09	Surface	Dup	7/18/2019	<0.010	<0.0000050	6.69	0.000240	<0.00010	0.000580	0.116	<0.000050	<0.0010
L2313851-1	BI-09	Surface		7/18/2019	<0.010	<0.0000050	6.65	0.000210	<0.00010	0.000570	0.114	<0.000050	<0.0010
L2329543-3	BI-09	Surface		8/13/2019	<0.010	<0.0000050	7.62	0.000230	<0.00010	0.000590	0.130	<0.000050	<0.0010
L2350223-4	BI-09	Surface		9/17/2019	<0.010	<0.0000050	8.69	0.000150	<0.00010	<0.00050	0.0930	<0.000050	<0.0010
L2371052-5	BI-09	Surface		10/22/2019	<0.010	<0.0000050	6.97	0.000260	<0.00010	0.000620	0.142	<0.000050	<0.0010
L2378996-1	BI-09	Surface		11/5/2019	<0.010	<0.0000050	6.98	0.000230	<0.00010	0.000840	0.124	<0.000050	<0.0010
VA19A0726-005	BI-09	Surface		12/16/2019	<0.010	<0.0000050	7.67	0.000170	<0.00010	0.000540	0.116	<0.000050	<0.0010
VA20A2126-001	BI-09	Surface		2/19/2020	<0.010	<0.0000050	9.01	0.000140	<0.00010	0.000510	0.0860	<0.000050	<0.0010
VA20A7202-005	BI-09	Surface	Dup	5/26/2020	<0.010	0.00000560	3.41	0.000200	<0.00010	0.000470	0.0730	<0.000050	<0.0010
VA20A7202-002	BI-09	Surface		5/26/2020	<0.010	<0.0000050	5.63	0.000190	<0.00010	0.000570	0.0870	<0.000050	<0.0010
VA20B2212-001	BI-09	Surface		8/6/2020	<0.010	<0.0000050	8.12	0.000220	<0.00010	0.000560	0.127	<0.000050	<0.0010
VA20C0197-002	BI-09	Surface		11/4/2020	<0.010	<0.0000050	6.31	0.000280	<0.00010	0.000750	0.149	<0.000050	<0.0010
L1989016-2	BI-12	Surface		9/7/2017	<0.010	<0.0000050	8.61	0.000110	<0.00010	<0.00050	0.386	<0.000050	<0.0010
L1762266-1	BI-13	Surface		4/27/2016	<0.010	0.0000150	5.67	0.000130	<0.00010	0.000550	0.0360	<0.000050	<0.0010
L1764648-4	BI-13	Surface		5/3/2016	<0.010	0.0000170	5.01	0.000140	<0.00010	0.000530	0.0350	<0.000050	<0.0010
L1767107-1	BI-13	Surface		5/9/2016	<0.010	0.0000140	5.58	0.000130	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L1770672-2	BI-13	Surface		5/16/2016	<0.010	0.0000130	6.03	0.000180	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L1774541-4	BI-13	Surface	Dup	5/25/2016	<0.010	0.0000170	6.49	0.000110	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L1774541-6	BI-13	Surface		5/25/2016	<0.010	0.0000170	6.55	0.000150	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L1788643-4	BI-13	Surface		6/22/2016	<0.010	0.00000900	5.74	0.000140	<0.00010	0.000520	<0.030	<0.000050	<0.0010
L1808945-4	BI-13	Surface		8/3/2016	<0.010	0.0000100	9.23	0.000130	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L1812856-4	BI-13	Surface	Dup	8/10/2016	<0.010	0.0000110	8.94	0.000110	<0.00010	0.000540	<0.030	<0.000050	<0.0010
L1812856-6	BI-13	Surface		8/10/2016	<0.010	0.00000600	9.12	0.000120	<0.00010	<0.00050	<0.030	<0.000050	<0.0010

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Boron (B)-Dissolved	Cadmium (Cd)-Dissolved	Calcium (Ca)-Dissolved	Chromium (Cr)-Dissolved	Cobalt (Co)-Dissolved	Copper (Cu)-Dissolved	Iron (Fe)-Dissolved	Lead (Pb)-Dissolved	Lithium (Li)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1815654-4	BI-13	Surface		8/16/2016	<0.010	0.00000600	9.95	<0.00010	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L1819041-7	BI-13	Surface		8/23/2016	<0.010	0.0000120	8.01	0.000140	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L1823224-7	BI-13	Surface		8/31/2016	<0.010	0.00000900	8.57	0.000140	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L1826303-1	BI-13	Surface		9/7/2016	<0.010	0.0000110	6.87	0.000100	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L1988832-6	BI-13	Surface		9/9/2017	<0.010	0.00000700	12.4	0.000160	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
	WQ1	Surface		5/17/2011	< 0.001	0.0000540	2.90	0.000300	0.0000600	0.000700	0.213	< 0.00005	< 0.001
	WQ1	Surface		5/24/2011	0.00100	0.0000340	2.40	0.000400	0.0000500	0.000700	0.176	< 0.00005	< 0.001
	WQ1	Surface		5/30/2011	0.00100	0.0000190	2.00	0.000300	0.0000500	0.000500	0.120	< 0.00005	< 0.001
	WQ1	Surface	Dup	6/6/2011	0.00100	0.0000150	1.60	< 0.0003	0.0000300	0.000500	0.108	< 0.00005	< 0.001
	WQ1	Surface		6/6/2011	< 0.001	0.0000270	1.60	< 0.0003	0.0000400	0.000500	0.105	< 0.00005	< 0.001
	WQ1	Surface		6/13/2011	0.00100	< 0.000015	1.50	< 0.0003	0.0000400	0.000500	0.0815	< 0.00005	< 0.001
	WQ1	Surface		7/18/2011	< 0.001	< 0.000015	2.00	< 0.0003	0.0000300	0.000400	0.0883	< 0.00005	< 0.001
	WQ1	Surface		8/15/2011	< 0.001	< 0.000015	2.00	< 0.0003	0.0000300	0.000300	0.0845	< 0.00005	< 0.001
	WQ1	Surface		9/19/2011	< 0.001	< 0.000015	2.30	< 0.0003	0.0000300	0.000300	0.0980	< 0.00005	< 0.001
	WQ1	Surface		10/17/2011	0.00400	< 0.000015	2.20	< 0.0003	0.0000300	< 0.0001	0.0925	< 0.00005	< 0.001
	WQ1	Surface		11/14/2011	0.00400	< 0.000015	2.30	< 0.0003	0.0000300	0.000200	0.0963	< 0.00005	< 0.001
	WQ1	Surface		5/15/2012	< 0.001	< 0.000015	2.80	< 0.0003	0.0000300	0.00130	0.185	0.000450	< 0.001
	WQ1	Surface		5/23/2012	< 0.001	< 0.000015	2.60	< 0.0003	< 0.00002	0.000300	0.157	< 0.00005	< 0.001
	WQ1	Surface		5/28/2012	< 0.001	0.0000300	2.10	< 0.0003	< 0.00002	0.000600	0.135	< 0.00005	< 0.001
	WQ1	Surface		6/4/2012	< 0.001	< 0.000015	1.80	< 0.0003	0.0000200	0.000300	0.104	< 0.00005	< 0.001
	WQ1	Surface		6/11/2012	< 0.001	< 0.000015	1.50	< 0.0003	0.0000300	0.000100	0.128	< 0.00005	< 0.001
	WQ1	Surface		6/18/2012	< 0.001	< 0.000015	1.70	< 0.0003	< 0.00002	< 0.0001	0.0773	< 0.00005	< 0.001
	WQ1	Surface		7/16/2012	< 0.001	< 0.000015	2.10	< 0.0003	< 0.00002	0.000100	0.112	< 0.00005	< 0.001
	WQ1	Surface		8/13/2012	0.00300	< 0.000015	3.50	0.000500	0.0000500	< 0.0001	0.434	0.000210	< 0.001
	WQ1	Surface		9/17/2012	< 0.001	< 0.000015	3.00	< 0.0003	< 0.00002	0.000200	0.164	< 0.00005	< 0.001
	WQ1	Surface		10/16/2012	< 0.001	< 0.000015	2.90	0.000300	0.0000300	< 0.0001	0.216	< 0.00005	< 0.001
	WQ1	Surface		11/12/2012	< 0.001	< 0.000015	2.80	0.000300	0.0000400	< 0.0001	0.145	< 0.00005	< 0.001
	WQ1	Surface		12/10/2012	< 0.001	< 0.000015	3.00	< 0.0003	0.0000300	0.000200	0.142	< 0.00005	< 0.001
	WQ1	Surface		5/14/2013	< 0.001	< 0.000015	1.90	< 0.0003	0.0000400	0.000500	0.142	< 0.00005	< 0.001
	WQ1	Surface	Dup	5/21/2013	< 0.001	< 0.000015	1.70	< 0.0003	0.0000300	< 0.0001	0.130	< 0.00005	< 0.001
	WQ1	Surface		5/21/2013	< 0.001	< 0.000015	1.70	< 0.0003	0.0000300	0.000100	0.125	< 0.00005	< 0.001
	WQ1	Surface		5/28/2013	< 0.001	< 0.000015	2.00	< 0.0003	< 0.00002	0.000400	0.115	< 0.00005	< 0.001
	WQ1	Surface		6/4/2013	0.00100	< 0.000015	1.80	< 0.0003	0.0000300	0.000500	0.0947	< 0.00005	< 0.001
	WQ1	Surface		6/11/2013	< 0.001	0.0000200	1.80	< 0.0003	0.0000300	0.000200	0.0764	< 0.00005	< 0.001
	WQ1	Surface		6/18/2013	< 0.001	0.0000200	1.80	< 0.0003	0.0000200	< 0.0001	0.0835	< 0.00005	< 0.001
VA20A2211-005	WQ1	Surface	Dup	2/20/2020	<0.010	<0.0000050	3.20	0.000170	<0.00010	0.000200	0.133	<0.000050	<0.0010
VA20A2211-001	WQ1	Surface		2/20/2020	<0.010	<0.0000050	3.09	0.000160	<0.00010	0.000280	0.131	<0.000050	<0.0010
VA20A6810-001	WQ1	Surface		5/19/2020	<0.010	0.0000101	1.94	0.000190	<0.00010	0.000470	0.103	<0.000050	<0.0010
VA20B2212-002	WQ1	Surface		8/6/2020	<0.010	0.0000122	2.90	0.000210	<0.00010	0.000370	0.127	<0.000050	<0.0010
VA20C1415-001	WQ1	Surface		11/19/2020	<0.010	0.00000810	2.13	0.000160	<0.00010	0.000300	0.103	<0.000050	<0.0010
	WQ10	Surface		3/30/2011	< 0.001	< 0.000015	13.7	< 0.0003	< 0.00002	< 0.0001	0.0159	< 0.00005	< 0.001
	WQ10	Surface		4/19/2011	< 0.001	< 0.000015	14.0	< 0.0003	< 0.00002	< 0.0001	0.0165	< 0.00005	< 0.001
	WQ10	Surface		5/17/2011	< 0.001	0.0000200	4.20	0.000400	0.0000600	0.000800	0.179	< 0.00005	< 0.001
	WQ10	Surface		5/25/2011	0.00100	0.0000170	3.50	0.000300	0.0000400	0.000600	0.128	< 0.00005	< 0.001

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Boron (B)-Dissolved	Cadmium (Cd)-Dissolved	Calcium (Ca)-Dissolved	Chromium (Cr)-Dissolved	Cobalt (Co)-Dissolved	Copper (Cu)-Dissolved	Iron (Fe)-Dissolved	Lead (Pb)-Dissolved	Lithium (Li)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ10	Surface		5/31/2011	< 0.001	< 0.000015	3.10	0.000300	0.0000300	0.000500	0.0980	< 0.00005	< 0.001
	WQ10	Surface		6/7/2011	< 0.001	< 0.000015	2.90	< 0.0003	0.0000300	0.000600	0.101	< 0.00005	< 0.001
	WQ10	Surface		6/14/2011	< 0.001	< 0.000015	3.10	< 0.0003	0.0000300	0.000700	0.0775	< 0.00005	< 0.001
	WQ10	Surface		7/19/2011	< 0.001	< 0.000015	4.30	< 0.0003	0.0000300	0.000500	0.0817	< 0.00005	< 0.001
	WQ10	Surface		8/16/2011	< 0.001	< 0.000015	6.70	< 0.0003	0.0000200	0.000400	0.0473	< 0.00005	< 0.001
	WQ10	Surface		9/20/2011	< 0.001	< 0.000015	11.6	< 0.0003	< 0.00002	0.000200	0.0271	< 0.00005	< 0.001
	WQ10	Surface		10/18/2011	< 0.001	< 0.000015	8.30	< 0.0003	< 0.00002	< 0.0001	0.0441	< 0.00005	< 0.001
	WQ10	Surface		11/15/2011	< 0.001	< 0.000015	9.60	< 0.0003	< 0.00002	0.000100	0.0368	< 0.00005	< 0.001
	WQ10	Surface		12/12/2011	0.00100	< 0.000015	11.8	< 0.0003	< 0.00002	0.000200	0.0259	< 0.00005	< 0.001
	WQ10	Surface		1/12/2012	< 0.001	< 0.000015	12.6	< 0.0003	< 0.00002	< 0.0001	0.0159	< 0.00005	< 0.001
	WQ10	Surface		2/13/2012	< 0.001	< 0.000015	13.8	< 0.0003	< 0.00002	0.000100	0.0152	< 0.00005	< 0.001
	WQ10	Surface		3/12/2012	< 0.001	< 0.000015	13.8	< 0.0003	< 0.00002	< 0.0001	0.0115	< 0.00005	< 0.001
	WQ10	Surface		4/16/2012	< 0.001	< 0.000015	13.1	< 0.0003	< 0.00002	< 0.0001	0.0392	0.0000500	< 0.001
	WQ10	Surface		5/14/2012	< 0.001	< 0.000015	4.10	< 0.0003	0.0000400	< 0.0001	0.128	< 0.00005	< 0.001
	WQ10	Surface		5/22/2012	< 0.001	< 0.000015	3.90	< 0.0003	< 0.00002	0.000300	0.124	< 0.00005	< 0.001
	WQ10	Surface		5/29/2012	< 0.001	< 0.000015	3.60	< 0.0003	< 0.00002	0.000600	0.103	< 0.00005	< 0.001
	WQ10	Surface		6/5/2012	< 0.001	< 0.000015	3.50	< 0.0003	< 0.00002	0.000300	0.0866	< 0.00005	< 0.001
	WQ10	Surface		6/12/2012	< 0.001	< 0.000015	3.10	< 0.0003	0.0000300	0.000100	0.111	< 0.00005	< 0.001
	WQ10	Surface		6/19/2012	< 0.001	< 0.000015	3.80	0.000500	< 0.00002	< 0.0001	0.0808	< 0.00005	< 0.001
	WQ10	Surface		7/17/2012	< 0.001	< 0.000015	6.80	< 0.0003	< 0.00002	< 0.0001	0.0503	< 0.00005	< 0.001
	WQ10	Surface		8/14/2012	0.00100	< 0.000015	9.30	< 0.0003	< 0.00002	< 0.0001	0.0894	< 0.00005	< 0.001
	WQ10	Surface		9/18/2012	< 0.001	< 0.000015	13.3	< 0.0003	< 0.00002	< 0.0001	0.0598	0.000130	< 0.001
	WQ10	Surface		10/15/2012	< 0.001	< 0.000015	12.8	0.000400	< 0.00002	< 0.0001	0.0676	< 0.00005	< 0.001
	WQ10	Surface		11/13/2012	< 0.001	< 0.000015	11.7	0.000400	< 0.00002	< 0.0001	0.0501	0.000190	< 0.001
	WQ10	Surface		1/13/2013	< 0.001	< 0.000015	16.1	< 0.0003	< 0.00002	0.000100	0.0322	< 0.00005	< 0.001
	WQ10	Surface		2/12/2013	< 0.001	< 0.000015	14.9	< 0.0003	< 0.00002	< 0.0001	0.0301	< 0.00005	< 0.001
	WQ10	Surface		3/11/2013	< 0.001	< 0.000015	16.2	< 0.0003	< 0.00002	0.000200	0.0290	< 0.00005	< 0.001
	WQ10	Surface		4/15/2013	0.00400	< 0.000015	10.6	< 0.0003	< 0.00002	0.000500	0.0529	< 0.00005	< 0.001
	WQ10	Surface		5/13/2013	< 0.001	< 0.000015	3.60	< 0.0003	0.0000400	0.000700	0.135	< 0.00005	< 0.001
	WQ10	Surface		5/22/2013	< 0.001	< 0.000015	3.70	< 0.0003	0.0000200	0.000300	0.109	< 0.00005	< 0.001
	WQ10	Surface		5/27/2013	< 0.001	< 0.000015	4.20	< 0.0003	< 0.00002	0.000500	0.111	< 0.00005	< 0.001
	WQ10	Surface		6/6/2013	0.00100	< 0.000015	3.90	< 0.0003	0.0000300	0.000400	0.0912	< 0.00005	< 0.001
	WQ10	Surface		6/10/2013	< 0.001	< 0.000015	4.40	< 0.0003	0.0000300	0.000100	0.0705	< 0.00005	< 0.001
	WQ10	Surface		6/17/2013	< 0.001	< 0.000015	4.20	< 0.0003	0.0000300	< 0.0001	0.0785	< 0.00005	< 0.001
	WQ10	Surface		4/13/2014	<0.001	<0.000015	13.4	0.000300	<0.00002	0.000200	0.0494	<0.00005	<0.001
	WQ10	Surface		7/2/2014	<0.001	<0.000015	7.60	<0.0003	<0.00002	0.000400	0.0709	<0.00005	<0.001
	WQ10	Surface	Dup	9/24/2014	<0.001	<0.000015	18.2	<0.0003	<0.00002	0.000100	0.0493	<0.00005	<0.001
	WQ10	Surface		9/24/2014	< 0.001	< 0.000015	17.4	< 0.0003	< 0.00002	0.000100	0.0497	< 0.00005	< 0.001
	WQ10	Surface		12/8/2014	<0.001	<0.000015	15.3	<0.0003	<0.00002	<0.0001	0.0466	<0.00005	<0.001
L1913006-3	WQ10	Surface		4/11/2017	<0.010	<0.0000050	13.2	0.000200	<0.00010	<0.00050	0.0680	<0.000050	<0.0010
L1925486-1	WQ10	Surface		5/10/2017	<0.010	0.00000800	4.70	0.000240	<0.00010	0.000640	0.178	<0.000050	<0.0010
L1939712-10	WQ10	Surface		6/7/2017	<0.010	0.00000600	3.91	0.000230	<0.00010	<0.00050	0.0910	<0.000050	<0.0010
L1961670-2	WQ10	Surface		7/18/2017	<0.010	<0.0000050	8.87	0.000400	<0.00010	<0.00050	0.0690	<0.000050	<0.0010
L1984944-10	WQ10	Surface	Dup	8/30/2017	<0.010	<0.0000050	14.9	0.000200	<0.00010	<0.00050	0.0580	<0.000050	<0.0010

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Boron (B)-Dissolved	Cadmium (Cd)-Dissolved	Calcium (Ca)-Dissolved	Chromium (Cr)-Dissolved	Cobalt (Co)-Dissolved	Copper (Cu)-Dissolved	Iron (Fe)-Dissolved	Lead (Pb)-Dissolved	Lithium (Li)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1984944-1	WQ10	Surface		8/30/2017	<0.010	<0.0000050	14.8	0.000200	<0.00010	<0.00050	0.0560	<0.000050	<0.0010
L1988832-1	WQ10	Surface		9/8/2017	<0.010	<0.0000050	13.9	0.000170	<0.00010	<0.00050	0.0800	<0.000050	<0.0010
L2011329-2	WQ10	Surface		10/19/2017	<0.010	<0.0000050	7.36	0.000240	<0.00010	<0.00050	0.144	<0.000050	<0.0010
L2020946-1	WQ10	Surface		11/8/2017	<0.010	<0.0000050	6.18	0.000200	<0.00010	<0.00050	0.0780	<0.000050	<0.0010
L2035356-4	WQ10	Surface		12/12/2017	<0.010	<0.0000050	8.89	0.000220	<0.00010	<0.00050	0.0810	<0.000050	<0.0010
L2049678-2	WQ10	Surface		1/24/2018	<0.010	<0.0000050	11.2	0.000150	<0.00010	<0.00050	0.0730	<0.000050	<0.0010
L2057025-2	WQ10	Surface		2/13/2018	<0.010	<0.0000050	11.7	0.000180	<0.00010	<0.00050	0.0610	<0.000050	<0.0010
L2074294-8	WQ10	Surface	Dup	3/28/2018	<0.010	<0.0000050	13.3	0.000200	<0.00010	<0.00050	0.0480	<0.000050	<0.0010
L2074294-3	WQ10	Surface		3/28/2018	<0.010	<0.0000050	12.1	0.000400	<0.00010	<0.00050	0.113	<0.000050	<0.0010
L2081503-4	WQ10	Surface		4/17/2018	<0.010	<0.0000050	12.6	0.000160	<0.00010	<0.00050	0.0610	<0.000050	<0.0010
L2097084-3	WQ10	Surface		5/16/2018	<0.010	0.00000790	2.67	0.000260	<0.00010	0.000530	0.0890	<0.000050	<0.0010
L2103632-3	WQ10	Surface		5/29/2018	<0.010	0.00000580	4.08	0.000250	<0.00010	<0.00050	0.0730	<0.000050	<0.0010
L2132986-2	WQ10	Surface		7/18/2018	<0.010	0.00000660	9.16	0.000160	<0.00010	<0.00050	0.0810	<0.000050	<0.0010
L2143640-6	WQ10	Surface		8/7/2018	<0.010	<0.0000050	10.2	0.000200	<0.00010	<0.00050	0.0960	<0.000050	<0.0010
L2163669-2	WQ10	Surface		9/11/2018	<0.010	<0.0000050	12.3	0.000190	<0.00010	<0.00050	0.0720	<0.000050	<0.0010
L2188218-1	WQ10	Surface		10/26/2018	<0.010	<0.0000050	8.47	0.000200	<0.00010	<0.00050	0.0690	<0.000050	<0.0010
L2204508-3	WQ10	Surface		11/29/2018	<0.010	<0.0000050	6.99	0.000120	<0.00010	<0.00050	0.0710	<0.000050	<0.0010
L2213246-1	WQ10	Surface		12/18/2018	<0.010	<0.0000050	8.90	0.000220	<0.00010	<0.00050	0.0690	<0.000050	<0.0010
L2227701-1	WQ10	Surface		1/30/2019	<0.010	<0.0000050	10.3	0.000250	<0.00010	<0.00050	0.0630	<0.000050	<0.0010
L2232050-6	WQ10	Surface		2/11/2019	<0.010	<0.0000050	11.2	0.000260	<0.00010	<0.00050	0.0650	<0.000050	<0.0010
L2244756-1	WQ10	Surface		3/13/2019	<0.010	<0.0000050	13.0	0.000330	<0.00010	<0.00050	0.0520	<0.000050	<0.0010
L2256053-5	WQ10	Surface	Dup	4/8/2019	<0.010	<0.0000050	9.96	0.000270	<0.00010	<0.00050	0.119	<0.000050	<0.0010
L2256053-1	WQ10	Surface		4/8/2019	<0.010	<0.0000050	9.92	0.000230	<0.00010	<0.00050	0.110	<0.000050	<0.0010
L2273497-1	WQ10	Surface		5/13/2019	<0.010	0.00000860	4.11	0.000210	<0.00010	0.000590	0.111	<0.000050	<0.0010
L2285579-6	WQ10	Surface		6/3/2019	<0.010	<0.0000050	4.73	0.000200	<0.00010	0.000520	0.0690	0.0000510	<0.0010
L2312637-1	WQ10	Surface		7/16/2019	<0.010	<0.0000050	5.41	0.000230	<0.00010	<0.00050	0.0870	<0.000050	<0.0010
L2326388-1	WQ10	Surface		8/8/2019	<0.010	<0.0000050	5.95	0.000210	<0.00010	<0.00050	0.107	<0.000050	<0.0010
L2350223-1	WQ10	Surface		9/17/2019	<0.010	<0.0000050	8.62	0.000210	<0.00010	<0.00050	0.0790	<0.000050	<0.0010
L2372667-1	WQ10	Surface		10/23/2019	<0.010	0.00000550	5.32	0.000210	<0.00010	<0.00050	0.0900	<0.000050	<0.0010
L2383392-1	WQ10	Surface		11/14/2019	<0.010	0.00000550	5.13	0.000210	<0.00010	<0.00050	0.0850	<0.000050	<0.0010
VA19A0726-004	WQ10	Surface		12/16/2019	<0.010	0.00000620	6.83	0.000220	<0.00010	0.000560	0.0930	<0.000050	<0.0010
VA20A0812-001	WQ10	Surface		1/23/2020	<0.010	<0.0000050	9.29	0.000220	<0.00010	0.000230	0.0750	<0.000050	<0.0010
VA20A1887-001	WQ10	Surface		2/13/2020	<0.010	<0.0000050	9.60	0.000220	<0.00010	<0.00020	0.0560	<0.000050	<0.0010
VA20A3516-001	WQ10	Surface		3/16/2020	<0.010	<0.0000050	10.4	0.000200	<0.00010	<0.00020	0.0600	<0.000050	<0.0010
VA20A4369-001	WQ10	Surface		4/1/2020	<0.010	<0.0000050	12.3	0.000220	<0.00010	<0.00020	0.0520	<0.000050	<0.0010
VA20A6218-001	WQ10	Surface		5/7/2020	<0.010	<0.0000050	4.33	0.000250	<0.00010	0.000510	0.116	<0.000050	<0.0010
VA20A6356-002	WQ10	Surface		5/11/2020	<0.010	<0.0000050	3.93	0.000240	<0.00010	0.000720	0.114	<0.000050	<0.0010
VA20A6810-003	WQ10	Surface		5/19/2020	<0.010	<0.0000050	3.50	0.000210	<0.00010	0.000560	0.0860	<0.000050	<0.0010
VA20A7202-003	WQ10	Surface		5/26/2020	<0.010	0.00000600	3.46	0.000210	<0.00010	0.000520	0.0730	<0.000050	<0.0010
VA20A7672-002	WQ10	Surface		6/2/2020	<0.010	<0.0000050	3.54	0.000200	<0.00010	0.000370	0.0700	<0.000050	<0.0010
VA20A9918-003	WQ10	Surface		7/6/2020	<0.010	0.00000500	4.89	0.000180	<0.00010	0.000430	0.0880	<0.000050	<0.0010
VA20B2156-008	WQ10	Surface	Dup	8/5/2020	<0.010	<0.0000050	8.99	0.000210	<0.00010	0.000220	0.108	<0.000050	<0.0010
VA20B2156-001	WQ10	Surface		8/5/2020	<0.010	<0.0000050	8.94	0.000190	<0.00010	0.000250	0.110	<0.000050	<0.0010
VA20B2426-004	WQ10	Surface		8/10/2020	<0.010	<0.0000050	7.80	0.000160	<0.00010	0.000270	0.101	<0.000050	<0.0010

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Boron (B)-Dissolved	Cadmium (Cd)-Dissolved	Calcium (Ca)-Dissolved	Chromium (Cr)-Dissolved	Cobalt (Co)-Dissolved	Copper (Cu)-Dissolved	Iron (Fe)-Dissolved	Lead (Pb)-Dissolved	Lithium (Li)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
VA20B3264-002	WQ10	Surface		8/19/2020	<0.010	<0.0000050	8.16	0.000160	<0.00010	0.000250	0.110	<0.000050	<0.0010
VA20B3609-001	WQ10	Surface		8/24/2020	<0.010	<0.0000050	8.61	0.000200	<0.00010	0.000210	0.106	<0.000050	<0.0010
VA20B4313-001	WQ10	Surface		9/1/2020	<0.010	<0.0000050	8.73	0.000180	<0.00010	0.000230	0.0880	<0.000050	<0.0010
VA20B7624-004	WQ10	Surface		10/6/2020	<0.010	<0.0000050	9.58	0.000210	<0.00010	0.000230	0.0910	<0.000050	<0.0010
VA20C0197-003	WQ10	Surface		11/4/2020	<0.010	0.00000530	4.36	0.000250	<0.00010	0.000660	0.151	<0.000050	<0.0010
	WQ11	Surface		3/30/2011	< 0.001	< 0.000015	21.3	< 0.0003	0.0000300	0.000700	0.0195	< 0.00005	< 0.001
	WQ11	Surface		4/19/2011	< 0.001	< 0.000015	17.0	< 0.0003	0.0000300	0.000500	0.0444	< 0.00005	< 0.001
	WQ11	Surface		5/17/2011	< 0.001	< 0.000015	5.40	0.000600	0.0000700	0.00120	0.237	< 0.00005	< 0.001
	WQ11	Surface		5/25/2011	0.00200	0.0000250	4.50	0.000500	0.0000600	0.00100	0.208	< 0.00005	< 0.001
	WQ11	Surface		5/31/2011	0.00100	< 0.000015	4.10	0.000400	0.0000500	0.000900	0.176	< 0.00005	< 0.001
	WQ11	Surface		6/6/2011	< 0.001	< 0.000015	3.90	0.000400	0.0000500	0.00130	0.163	< 0.00005	< 0.001
	WQ11	Surface		6/13/2011	0.00100	< 0.000015	4.60	0.000400	0.0000500	0.00130	0.137	< 0.00005	< 0.001
	WQ11	Surface		7/18/2011	0.00100	< 0.000015	5.50	0.000400	0.0000500	0.000900	0.182	< 0.00005	< 0.001
	WQ11	Surface		8/15/2011	< 0.001	< 0.000015	8.10	< 0.0003	0.0000400	0.000600	0.0907	< 0.00005	< 0.001
	WQ11	Surface		9/19/2011	< 0.001	< 0.000015	14.9	< 0.0003	< 0.00002	0.000400	0.0192	< 0.00005	< 0.001
	WQ11	Surface		10/17/2011	< 0.001	< 0.000015	10.1	< 0.0003	0.0000300	< 0.0001	0.0804	< 0.00005	< 0.001
	WQ11	Surface		11/14/2011	< 0.001	< 0.000015	11.5	< 0.0003	0.0000200	0.000300	0.0566	< 0.00005	< 0.001
	WQ11	Surface		12/12/2011	< 0.001	< 0.000015	14.9	< 0.0003	0.0000200	0.00440	0.0437	< 0.00005	< 0.001
	WQ11	Surface		5/15/2012	< 0.001	< 0.000015	4.80	0.000300	0.0000600	0.000400	0.216	< 0.00005	< 0.001
	WQ11	Surface		5/22/2012	< 0.001	< 0.000015	4.40	0.000400	0.0000400	0.00910	0.197	0.000430	< 0.001
	WQ11	Surface		5/28/2012	< 0.001	0.0000690	3.90	< 0.0003	0.0000200	0.000800	0.162	< 0.00005	< 0.001
	WQ11	Surface		6/4/2012	< 0.001	< 0.000015	4.40	< 0.0003	0.0000300	0.000600	0.131	< 0.00005	< 0.001
	WQ11	Surface		6/11/2012	< 0.001	< 0.000015	4.70	0.000400	0.0000300	0.000400	0.132	< 0.00005	< 0.001
	WQ11	Surface		6/18/2012	< 0.001	< 0.000015	5.40	0.000300	0.0000200	< 0.0001	0.118	< 0.00005	< 0.001
	WQ11	Surface		7/16/2012	< 0.001	< 0.000015	9.00	< 0.0003	< 0.00002	0.000300	0.0624	< 0.00005	< 0.001
	WQ11	Surface		8/13/2012	0.00200	< 0.000015	9.70	< 0.0003	0.0000300	< 0.0001	0.0720	< 0.00005	< 0.001
	WQ11	Surface		9/17/2012	< 0.001	< 0.000015	15.6	< 0.0003	< 0.00002	0.000100	0.0199	< 0.00005	< 0.001
	WQ11	Surface		10/15/2012	< 0.001	< 0.000015	19.4	< 0.0003	< 0.00002	< 0.0001	0.00720	< 0.00005	< 0.001
	WQ11	Surface		11/13/2012	< 0.001	< 0.000015	14.5	0.000400	0.0000200	< 0.0001	0.0380	< 0.00005	< 0.001
	WQ11	Surface		1/13/2013	< 0.001	< 0.000015	22.9	< 0.0003	< 0.00002	0.000300	0.0112	< 0.00005	< 0.001
	WQ11	Surface		2/12/2013	< 0.001	< 0.000015	25.1	< 0.0003	< 0.00002	0.000600	0.00790	< 0.00005	< 0.001
	WQ11	Surface		4/15/2013	0.0110	< 0.000015	9.00	0.000300	0.0000600	0.00110	0.171	0.0000600	< 0.001
	WQ11	Surface		5/13/2013	< 0.001	< 0.000015	4.10	0.000300	0.0000500	0.000800	0.194	< 0.00005	< 0.001
	WQ11	Surface		5/22/2013	< 0.001	< 0.000015	4.60	< 0.0003	0.0000400	0.000600	0.202	< 0.00005	< 0.001
	WQ11	Surface		5/27/2013	< 0.001	< 0.000015	5.70	< 0.0003	< 0.00002	0.000900	0.198	< 0.00005	< 0.001
	WQ11	Surface		6/6/2013	0.00200	< 0.000015	5.70	< 0.0003	0.0000600	0.00110	0.202	< 0.00005	< 0.001
	WQ11	Surface		6/10/2013	< 0.001	< 0.000015	6.30	< 0.0003	0.0000500	0.000500	0.163	< 0.00005	< 0.001
	WQ11	Surface		6/17/2013	< 0.001	< 0.000015	5.80	< 0.0003	0.0000700	< 0.0001	0.159	< 0.00005	< 0.001
L1762266-2	WQ11	Surface		4/27/2016	<0.010	<0.0000050	5.49	0.000410	<0.00010	0.00107	0.179	<0.000050	<0.0010
L1764648-1	WQ11	Surface		5/3/2016	<0.010	<0.0000050	5.91	0.000350	<0.00010	0.000870	0.154	<0.000050	<0.0010
L1767107-6	WQ11	Surface	Dup	5/9/2016	<0.010	<0.0000050	6.15	0.000320	<0.00010	0.000770	0.133	<0.000050	<0.0010
L1767107-2	WQ11	Surface		5/9/2016	<0.010	<0.0000050	6.16	0.000360	<0.00010	0.000800	0.132	<0.000050	<0.0010
L1770672-5	WQ11	Surface	Dup	5/16/2016	<0.010	<0.0000050	7.22	0.000330	<0.00010	0.000760	0.0900	<0.000050	<0.0010
L1770672-1	WQ11	Surface		5/16/2016	<0.010	<0.0000050	7.30	0.000310	<0.00010	0.000750	0.0900	<0.000050	<0.0010

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Boron (B)-Dissolved	Cadmium (Cd)-Dissolved	Calcium (Ca)-Dissolved	Chromium (Cr)-Dissolved	Cobalt (Co)-Dissolved	Copper (Cu)-Dissolved	Iron (Fe)-Dissolved	Lead (Pb)-Dissolved	Lithium (Li)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1774541-1	WQ11	Surface		5/25/2016	<0.010	<0.0000050	8.51	0.000270	<0.00010	0.000680	0.0620	<0.000050	<0.0010
L1788643-1	WQ11	Surface		6/22/2016	<0.010	<0.0000050	5.94	0.000370	<0.00010	0.000780	0.143	<0.000050	<0.0010
L1808945-1	WQ11	Surface		8/3/2016	<0.010	<0.0000050	8.34	0.000230	<0.00010	0.000660	0.101	<0.000050	<0.0010
L1812856-1	WQ11	Surface		8/10/2016	<0.010	<0.0000050	8.94	0.000320	<0.00010	0.000710	0.0960	<0.000050	<0.0010
L1815654-1	WQ11	Surface		8/16/2016	<0.010	<0.0000050	10.7	0.000190	<0.00010	0.000540	0.0550	<0.000050	<0.0010
L1819041-6	WQ11	Surface		8/23/2016	<0.010	<0.0000050	10.1	0.000330	<0.00010	0.000590	0.0880	<0.000050	<0.0010
L1823224-4	WQ11	Surface		8/31/2016	<0.010	<0.0000050	11.2	0.000260	<0.00010	0.000510	0.0660	<0.000050	<0.0010
L1826303-3	WQ11	Surface		9/7/2016	<0.010	<0.0000050	9.16	0.000210	<0.00010	0.000560	0.0870	<0.000050	<0.0010
	WQ12	Surface		4/19/2011	< 0.001	< 0.000015	7.50	< 0.0003	0.0000300	0.000400	0.158	< 0.00005	< 0.001
	WQ12	Surface		5/17/2011	< 0.001	< 0.000015	4.60	0.000300	0.0000400	0.000500	0.149	< 0.00005	< 0.001
	WQ12	Surface		5/24/2011	0.00100	< 0.000015	4.20	< 0.0003	0.0000300	0.000500	0.105	< 0.00005	< 0.001
	WQ12	Surface		5/30/2011	< 0.001	< 0.000015	3.80	< 0.0003	0.0000300	0.000400	0.0861	< 0.00005	< 0.001
	WQ12	Surface		6/6/2011	< 0.001	< 0.000015	4.00	< 0.0003	0.0000200	0.000400	0.0721	< 0.00005	< 0.001
	WQ12	Surface		6/13/2011	< 0.001	< 0.000015	4.60	< 0.0003	0.0000200	0.000600	0.0935	< 0.00005	< 0.001
	WQ12	Surface		7/18/2011	< 0.001	< 0.000015	5.00	< 0.0003	0.0000300	0.000400	0.0882	< 0.00005	< 0.001
	WQ12	Surface		8/15/2011	< 0.001	< 0.000015	5.50	< 0.0003	0.0000300	0.000300	0.0795	< 0.00005	< 0.001
	WQ12	Surface		9/19/2011	< 0.001	< 0.000015	6.60	< 0.0003	< 0.00002	0.000400	0.108	< 0.00005	< 0.001
	WQ12	Surface		10/17/2011	< 0.001	< 0.000015	6.00	< 0.0003	0.0000300	< 0.0001	0.0912	< 0.00005	< 0.001
	WQ12	Surface		11/14/2011	< 0.001	< 0.000015	5.90	< 0.0003	0.0000300	0.000200	0.102	< 0.00005	< 0.001
	WQ12	Surface		12/12/2011	< 0.001	< 0.000015	7.10	< 0.0003	0.0000300	0.000100	0.137	< 0.00005	< 0.001
	WQ12	Surface		1/12/2012	< 0.001	< 0.000015	6.80	< 0.0003	0.0000300	< 0.0001	0.113	< 0.00005	< 0.001
	WQ12	Surface		2/13/2012	< 0.001	< 0.000015	7.20	< 0.0003	< 0.00002	0.000300	0.132	< 0.00005	< 0.001
	WQ12	Surface	Dup	3/12/2012	< 0.001	< 0.000015	6.80	< 0.0003	< 0.00002	< 0.0001	0.142	< 0.00005	< 0.001
	WQ12	Surface		3/12/2012	< 0.001	< 0.000015	6.80	< 0.0003	< 0.00002	< 0.0001	0.134	< 0.00005	< 0.001
	WQ12	Surface		4/16/2012	< 0.001	< 0.000015	7.10	< 0.0003	0.0000600	0.000100	0.242	< 0.00005	< 0.001
	WQ12	Surface		5/15/2012	< 0.001	< 0.000015	4.30	< 0.0003	0.0000300	< 0.0001	0.125	< 0.00005	< 0.001
	WQ12	Surface		5/22/2012	< 0.001	< 0.000015	4.10	< 0.0003	< 0.00002	0.000700	0.100	< 0.00005	< 0.001
	WQ12	Surface		5/28/2012	< 0.001	0.0000440	4.60	< 0.0003	< 0.00002	0.000400	0.0775	< 0.00005	< 0.001
	WQ12	Surface		6/4/2012	< 0.001	< 0.000015	4.70	< 0.0003	< 0.00002	0.000200	0.0779	< 0.00005	< 0.001
	WQ12	Surface		6/11/2012	< 0.001	< 0.000015	4.70	< 0.0003	0.0000200	< 0.0001	0.0845	< 0.00005	< 0.001
	WQ12	Surface		6/18/2012	< 0.001	< 0.000015	5.00	0.000400	< 0.00002	< 0.0001	0.0823	< 0.00005	< 0.001
	WQ12	Surface		7/16/2012	< 0.001	< 0.000015	5.90	0.000400	< 0.00002	< 0.0001	0.104	< 0.00005	< 0.001
	WQ12	Surface		8/13/2012	< 0.001	< 0.000015	7.50	< 0.0003	0.0000200	< 0.0001	0.228	< 0.00005	< 0.001
	WQ12	Surface		9/17/2012	< 0.001	< 0.000015	8.40	< 0.0003	< 0.00002	< 0.0001	0.285	< 0.00005	< 0.001
	WQ12	Surface		10/15/2012	< 0.001	< 0.000015	8.60	< 0.0003	< 0.00002	< 0.0001	0.437	< 0.00005	< 0.001
	WQ12	Surface		11/13/2012	< 0.001	< 0.000015	7.30	< 0.0003	0.0000200	< 0.0001	0.164	< 0.00005	< 0.001
	WQ12	Surface		1/13/2013	< 0.001	< 0.000015	7.30	< 0.0003	0.0000300	0.000300	0.272	< 0.00005	< 0.001
	WQ12	Surface		2/12/2013	0.00100	< 0.000015	7.10	< 0.0003	< 0.00002	0.000200	0.220	< 0.00005	< 0.001
	WQ12	Surface		3/11/2013	< 0.001	< 0.000015	7.80	< 0.0003	0.0000200	0.000200	0.198	< 0.00005	< 0.001
	WQ12	Surface		4/15/2013	0.00300	< 0.000015	5.60	< 0.0003	0.0000400	0.000600	0.158	< 0.00005	< 0.001
	WQ12	Surface		5/13/2013	< 0.001	< 0.000015	5.00	< 0.0003	0.0000300	0.000500	0.118	< 0.00005	< 0.001
	WQ12	Surface		5/22/2013	< 0.001	< 0.000015	4.50	< 0.0003	< 0.00002	0.000100	0.0943	< 0.00005	< 0.001
	WQ12	Surface		5/27/2013	< 0.001	< 0.000015	5.50	< 0.0003	< 0.00002	0.000300	0.0889	< 0.00005	< 0.001
	WQ12	Surface		6/6/2013	0.00100	< 0.000015	5.10	< 0.0003	0.0000300	0.000300	0.0780	< 0.00005	< 0.001

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Boron (B)-Dissolved	Cadmium (Cd)-Dissolved	Calcium (Ca)-Dissolved	Chromium (Cr)-Dissolved	Cobalt (Co)-Dissolved	Copper (Cu)-Dissolved	Iron (Fe)-Dissolved	Lead (Pb)-Dissolved	Lithium (Li)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ12	Surface		6/10/2013	< 0.001	< 0.000015	5.60	< 0.0003	0.0000300	0.000100	0.0842	< 0.00005	< 0.001
	WQ12	Surface		6/17/2013	< 0.001	< 0.000015	5.10	< 0.0003	0.0000300	< 0.0001	0.0851	< 0.00005	< 0.001
	WQ13	Surface		4/19/2011	< 0.001	< 0.000015	22.9	< 0.0003	0.0000400	0.000200	0.169	< 0.00005	< 0.001
	WQ13	Surface		5/17/2011	< 0.001	0.0000180	14.2	< 0.0003	0.0000400	0.000600	0.0994	< 0.00005	< 0.001
	WQ13	Surface		5/24/2011	0.00200	0.0000180	14.7	< 0.0003	0.0000300	0.000600	0.0811	< 0.00005	< 0.001
	WQ13	Surface		5/30/2011	0.00100	< 0.000015	14.5	< 0.0003	0.0000300	0.000600	0.0773	< 0.00005	< 0.001
	WQ13	Surface		6/6/2011	0.00100	0.0000270	14.5	< 0.0003	0.0000300	0.000600	0.0757	< 0.00005	< 0.001
	WQ13	Surface		6/13/2011	0.00100	< 0.000015	14.7	< 0.0003	0.0000300	0.000700	0.0726	< 0.00005	< 0.001
	WQ13	Surface		7/18/2011	0.00100	< 0.000015	14.9	< 0.0003	0.0000300	0.000500	0.121	< 0.00005	< 0.001
	WQ13	Surface		8/15/2011	< 0.001	< 0.000015	17.0	< 0.0003	0.0000300	0.000500	0.109	< 0.00005	< 0.001
	WQ13	Surface		9/19/2011	< 0.001	< 0.000015	19.0	< 0.0003	0.0000300	0.000400	0.212	< 0.00005	< 0.001
	WQ13	Surface		10/17/2011	0.00100	< 0.000015	18.8	< 0.0003	0.0000300	< 0.0001	0.202	< 0.00005	< 0.001
	WQ13	Surface		11/14/2011	0.00100	< 0.000015	18.9	< 0.0003	0.0000300	0.000200	0.135	< 0.00005	< 0.001
	WQ13	Surface		12/13/2011	0.00100	< 0.000015	20.6	< 0.0003	0.0000200	0.000400	0.113	< 0.00005	< 0.001
	WQ13	Surface		1/12/2012	< 0.001	< 0.000015	21.9	< 0.0003	0.0000300	0.000200	0.0787	< 0.00005	< 0.001
	WQ13	Surface		2/13/2012	< 0.001	< 0.000015	21.4	< 0.0003	< 0.00002	0.000400	0.0892	< 0.00005	< 0.001
	WQ13	Surface		3/12/2012	< 0.001	< 0.000015	19.8	< 0.0003	0.0000200	< 0.0001	0.0795	< 0.00005	< 0.001
	WQ13	Surface		4/16/2012	< 0.001	< 0.000015	19.0	< 0.0003	0.0000400	0.000200	0.151	< 0.00005	< 0.001
	WQ13	Surface		5/15/2012	< 0.001	< 0.000015	14.9	< 0.0003	0.0000300	< 0.0001	0.0891	< 0.00005	< 0.001
	WQ13	Surface		5/22/2012	< 0.001	< 0.000015	14.4	< 0.0003	< 0.00002	0.000200	0.0794	< 0.00005	< 0.001
	WQ13	Surface		5/28/2012	< 0.001	< 0.000015	14.3	< 0.0003	< 0.00002	0.000300	0.0839	< 0.00005	< 0.001
	WQ13	Surface		6/4/2012	< 0.001	< 0.000015	15.2	< 0.0003	0.0000300	0.000300	0.0626	< 0.00005	< 0.001
	WQ13	Surface	Dup	6/11/2012	< 0.001	< 0.000015	14.9	< 0.0003	0.0000300	0.000200	0.0749	< 0.00005	< 0.001
	WQ13	Surface		6/11/2012	< 0.001	< 0.000015	15.2	< 0.0003	0.0000200	0.000100	0.0653	< 0.00005	< 0.001
	WQ13	Surface		6/18/2012	< 0.001	< 0.000015	15.9	< 0.0003	< 0.00002	< 0.0001	0.0693	< 0.00005	< 0.001
	WQ13	Surface		7/16/2012	< 0.001	< 0.000015	17.7	< 0.0003	< 0.00002	0.000100	0.0897	< 0.00005	< 0.001
	WQ13	Surface		8/13/2012	0.00200	< 0.000015	20.2	< 0.0003	0.0000300	< 0.0001	0.123	< 0.00005	< 0.001
	WQ13	Surface		9/17/2012	< 0.001	< 0.000015	20.8	< 0.0003	< 0.00002	0.000200	0.143	< 0.00005	< 0.001
	WQ13	Surface		10/15/2012	< 0.001	< 0.000015	20.4	< 0.0003	< 0.00002	< 0.0001	0.172	< 0.00005	< 0.001
	WQ13	Surface		11/12/2012	< 0.001	< 0.000015	19.0	0.000300	0.0000300	< 0.0001	0.125	< 0.00005	< 0.001
	WQ13	Surface		1/15/2013	< 0.001	0.0000250	23.1	< 0.0003	0.0000400	0.00100	0.118	< 0.00005	< 0.001
	WQ13	Surface		5/14/2013	< 0.001	< 0.000015	15.0	< 0.0003	0.0000200	0.000500	0.0759	< 0.00005	< 0.001
	WQ13	Surface		5/22/2013	< 0.001	< 0.000015	4.80	< 0.0003	0.0000200	0.000100	0.0947	< 0.00005	< 0.001
	WQ13	Surface		5/28/2013	< 0.001	< 0.000015	17.1	< 0.0003	< 0.00002	0.000600	0.0722	< 0.00005	< 0.001
	WQ13	Surface		6/4/2013	0.00200	< 0.000015	16.3	< 0.0003	0.0000300	0.000200	0.0648	< 0.00005	< 0.001
	WQ13	Surface		6/10/2013	< 0.001	0.000221	17.8	< 0.0003	0.0000300	< 0.0001	0.0684	< 0.00005	< 0.001
	WQ13	Surface		6/18/2013	< 0.001	< 0.000015	15.2	< 0.0003	0.0000400	< 0.0001	0.0849	< 0.00005	< 0.001
L1913531-4	WQ13	Surface	Dup	4/12/2017	<0.010	<0.0000050	17.9	<0.00010	<0.00010	<0.00050	0.0900	<0.000050	<0.0010
L1913531-2	WQ13	Surface		4/12/2017	<0.010	<0.0000050	16.3	<0.00010	<0.00010	<0.00050	0.0950	<0.000050	<0.0010
L1926080-1	WQ13	Surface		5/11/2017	<0.010	<0.0000050	15.9	0.000130	<0.00010	<0.00050	0.0780	<0.000050	<0.0010
L1939712-11	WQ13	Surface		6/7/2017	<0.010	<0.0000050	16.5	<0.00010	<0.00010	<0.00050	0.0540	<0.000050	<0.0010
L1964508-2	WQ13	Surface		7/24/2017	<0.010	<0.0000050	19.5	<0.00010	<0.00010	<0.00050	0.132	<0.000050	<0.0010
L1984944-8	WQ13	Surface		8/30/2017	<0.010	<0.0000050	19.6	<0.00010	<0.00010	<0.00050	0.102	<0.000050	<0.0010
L1988832-7	WQ13	Surface		9/9/2017	<0.010	<0.0000050	20.1	<0.00010	<0.00010	<0.00050	0.109	<0.000050	<0.0010

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Boron (B)-Dissolved	Cadmium (Cd)-Dissolved	Calcium (Ca)-Dissolved	Chromium (Cr)-Dissolved	Cobalt (Co)-Dissolved	Copper (Cu)-Dissolved	Iron (Fe)-Dissolved	Lead (Pb)-Dissolved	Lithium (Li)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2009845-1	WQ13	Surface		10/17/2017	<0.010	<0.0000050	17.6	<0.00010	<0.00010	<0.00050	0.105	<0.000050	<0.0010
L2020333-1	WQ13	Surface		11/7/2017	<0.010	<0.0000050	17.0	<0.00010	<0.00010	<0.00050	0.0890	<0.000050	<0.0010
L2034610-4	WQ13	Surface		12/11/2017	<0.010	<0.0000050	17.9	<0.00010	<0.00010	<0.00050	0.111	<0.000050	<0.0010
L2049224-3	WQ13	Surface		1/23/2018	<0.010	<0.0000050	22.3	<0.00010	<0.00010	<0.00050	0.0660	<0.000050	<0.0010
L2060442-3	WQ13	Surface		2/23/2018	<0.010	<0.0000050	22.6	<0.00010	<0.00010	<0.00050	0.0750	<0.000050	<0.0010
L2074294-7	WQ13	Surface		3/28/2018	<0.010	<0.0000050	21.1	<0.00010	<0.00010	<0.00050	0.0310	<0.000050	<0.0010
L2081505-5	WQ13	Surface		4/16/2018	<0.010	<0.0000050	21.5	<0.00010	<0.00010	<0.00050	0.0980	<0.000050	<0.0010
L2097084-4	WQ13	Surface		5/16/2018	<0.010	<0.0000050	14.1	0.000120	<0.00010	0.000550	0.0560	<0.000050	<0.0010
L2104479-4	WQ13	Surface		5/30/2018	<0.010	<0.0000050	16.1	<0.00010	<0.00010	0.000510	0.0580	<0.000050	<0.0010
L2132986-1	WQ13	Surface		7/18/2018	<0.010	<0.0000050	17.5	<0.00010	<0.00010	<0.00050	0.0620	<0.000050	<0.0010
L2144782-5	WQ13	Surface		8/9/2018	<0.010	<0.0000050	18.6	<0.00010	<0.00010	<0.00050	0.0700	<0.000050	<0.0010
L2164448-1	WQ13	Surface		9/12/2018	<0.010	<0.0000050	20.1	0.000100	<0.00010	<0.00050	0.120	<0.000050	<0.0010
L2188218-5	WQ13	Surface		10/26/2018	<0.010	<0.0000050	18.8	<0.00010	<0.00010	<0.00050	0.0680	<0.000050	<0.0010
L2203408-5	WQ13	Surface		11/27/2018	<0.010	<0.0000050	16.0	<0.00010	<0.00010	<0.00050	0.0590	<0.000050	<0.0010
L2213684-4	WQ13	Surface		12/19/2018	<0.010	<0.0000050	18.1	<0.00010	<0.00010	<0.00050	0.0600	<0.000050	<0.0010
L2227101-4	WQ13	Surface		1/29/2019	<0.010	<0.0000050	20.3	<0.00010	<0.00010	<0.00050	0.0600	<0.000050	<0.0010
L2232050-7	WQ13	Surface		2/11/2019	<0.010	<0.0000050	19.7	<0.00010	<0.00010	<0.00050	0.0430	<0.000050	<0.0010
L2245144-2	WQ13	Surface		3/14/2019	<0.010	<0.0000050	20.3	<0.00010	<0.00010	<0.00050	0.0440	<0.000050	<0.0010
L2256054-4	WQ13	Surface		4/9/2019	<0.010	<0.0000050	17.1	0.000130	<0.00010	<0.00050	0.110	<0.000050	<0.0010
L2274397-3	WQ13	Surface		5/14/2019	<0.010	<0.0000050	15.3	0.000110	<0.00010	0.000610	0.0600	<0.000050	<0.0010
L2286702-4	WQ13	Surface		6/4/2019	<0.010	<0.0000050	17.0	0.000120	<0.00010	<0.00050	0.0440	<0.000050	<0.0010
L2312637-2	WQ13	Surface		7/16/2019	<0.010	<0.0000050	17.6	<0.00010	<0.00010	<0.00050	0.0610	<0.000050	<0.0010
L2326388-5	WQ13	Surface		8/8/2019	<0.010	<0.0000050	17.9	0.000140	<0.00010	<0.00050	0.124	<0.000050	<0.0010
L2349445-4	WQ13	Surface		9/16/2019	<0.010	<0.0000050	18.1	<0.00010	<0.00010	<0.00050	0.0980	<0.000050	<0.0010
L2372667-4	WQ13	Surface		10/23/2019	<0.010	<0.0000050	15.6	0.000210	<0.00010	<0.00050	0.0830	<0.000050	<0.0010
L2388381-4	WQ13	Surface		11/25/2019	<0.010	<0.0000050	17.2	0.000110	<0.00010	<0.00050	0.0650	<0.000050	<0.0010
VA19A0791-005	WQ13	Surface	Dup	12/17/2019	<0.010	<0.0000050	18.6	<0.00010	<0.00010	0.000710	0.0650	<0.000050	<0.0010
VA19A0791-004	WQ13	Surface		12/17/2019	<0.010	<0.0000050	18.7	<0.00010	<0.00010	0.000600	0.0650	<0.000050	<0.0010
VA20A0960-004	WQ13	Surface		1/27/2020	<0.010	<0.0000050	20.3	0.000200	<0.00010	0.000310	0.0610	<0.000050	<0.0010
VA20A2126-003	WQ13	Surface		2/19/2020	<0.010	<0.0000050	18.2	<0.00010	<0.00010	0.000350	0.0660	<0.000050	<0.0010
VA20A3691-001	WQ13	Surface		3/18/2020	<0.010	<0.0000050	19.7	<0.00010	<0.00010	0.000310	0.0670	<0.000050	<0.0010
VA20A4555-005	WQ13	Surface		4/7/2020	<0.010	<0.0000050	21.5	<0.00010	<0.00010	0.000340	0.0890	<0.000050	<0.0010
VA20A6218-004	WQ13	Surface		5/7/2020	<0.010	<0.0000050	16.6	0.000120	<0.00010	0.000440	0.0590	<0.000050	<0.0010
VA20A6356-003	WQ13	Surface		5/11/2020	<0.010	<0.0000050	15.5	0.000130	<0.00010	0.000440	0.0620	<0.000050	<0.0010
VA20A6869-003	WQ13	Surface		5/20/2020	<0.010	<0.0000050	14.5	0.000110	<0.00010	0.000470	0.0660	<0.000050	<0.0010
VA20A7367-003	WQ13	Surface		5/28/2020	<0.010	<0.0000050	14.8	<0.00010	<0.00010	0.000440	0.0510	<0.000050	<0.0010
VA20A7797-003	WQ13	Surface		6/3/2020	<0.010	<0.0000050	16.4	0.000110	<0.00010	0.000390	0.0540	<0.000050	<0.0010
VA20B0021-003	WQ13	Surface		7/7/2020	<0.010	<0.0000050	16.2	0.000140	<0.00010	0.000510	0.0800	<0.000050	<0.0010
VA20B2156-003	WQ13	Surface		8/5/2020	<0.010	<0.0000050	19.7	<0.00010	<0.00010	0.000340	0.0650	<0.000050	<0.0010
VA20B2542-004	WQ13	Surface		8/11/2020	<0.010	<0.0000050	18.4	<0.00010	<0.00010	0.000360	0.0730	<0.000050	<0.0010
VA20B3218-002	WQ13	Surface		8/18/2020	<0.010	<0.0000050	18.7	<0.00010	<0.00010	0.000360	0.102	<0.000050	<0.0010
VA20B3860-003	WQ13	Surface		8/26/2020	<0.010	<0.0000050	19.1	<0.00010	<0.00010	0.000400	0.108	<0.000050	<0.0010
VA20B4313-003	WQ13	Surface		9/1/2020	<0.010	<0.0000050	19.0	<0.00010	<0.00010	0.000340	0.115	<0.000050	<0.0010
VA20B7828-003	WQ13	Surface		10/8/2020	<0.010	<0.0000050	19.7	<0.00010	<0.00010	0.000370	0.125	<0.000050	<0.0010

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Boron (B)-Dissolved	Cadmium (Cd)-Dissolved	Calcium (Ca)-Dissolved	Chromium (Cr)-Dissolved	Cobalt (Co)-Dissolved	Copper (Cu)-Dissolved	Iron (Fe)-Dissolved	Lead (Pb)-Dissolved	Lithium (Li)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
VA20C1281-002	WQ13	Surface	Dup	11/18/2020	<0.010	<0.000050	16.8	0.000100	<0.00010	0.000380	0.0630	<0.000050	<0.0010
VA20C1281-001	WQ13	Surface		11/18/2020	<0.010	<0.000050	18.1	<0.00010	<0.00010	0.000370	0.0620	<0.000050	<0.0010
	WQ14	Surface		5/24/2011	0.00300	0.0000180	10.6	0.000300	0.0000500	0.000800	0.275	< 0.00005	< 0.001
	WQ14	Surface		5/30/2011	0.00200	< 0.000015	11.2	< 0.0003	0.0000400	0.000700	0.210	< 0.00005	< 0.001
	WQ14	Surface		6/6/2011	0.00200	0.0000380	13.5	< 0.0003	0.0000300	0.000800	0.116	< 0.00005	< 0.001
	WQ14	Surface		6/13/2011	0.00200	< 0.000015	15.6	< 0.0003	0.0000300	0.000600	0.103	< 0.00005	< 0.001
	WQ14	Surface	Dup	7/18/2011	0.00200	< 0.000015	18.1	< 0.0003	0.0000200	0.000400	0.156	< 0.00005	< 0.001
	WQ14	Surface		7/18/2011	0.00200	< 0.000015	18.1	< 0.0003	0.0000300	0.000400	0.160	< 0.00005	< 0.001
	WQ14	Surface		8/15/2011	< 0.001	< 0.000015	24.7	< 0.0003	0.0000300	0.000200	0.289	< 0.00005	< 0.001
	WQ14	Surface		9/19/2011	< 0.001	< 0.000015	27.3	< 0.0003	< 0.00002	0.000200	0.196	< 0.00005	< 0.001
	WQ14	Surface		10/17/2011	0.00100	< 0.000015	24.5	< 0.0003	0.0000200	< 0.0001	0.132	< 0.00005	< 0.001
	WQ14	Surface	Dup	11/14/2011	0.00100	< 0.000015	25.4	< 0.0003	0.0000200	< 0.0001	0.113	< 0.00005	< 0.001
	WQ14	Surface		11/14/2011	0.00100	< 0.000015	25.4	< 0.0003	< 0.00002	< 0.0001	0.109	< 0.00005	< 0.001
	WQ14	Surface		12/13/2011	0.00200	< 0.000015	30.8	< 0.0003	0.0000300	0.000200	0.144	< 0.00005	< 0.001
	WQ14	Surface	Dup	1/12/2012	< 0.001	< 0.000015	20.8	< 0.0003	0.0000300	0.000100	0.0632	< 0.00005	< 0.001
	WQ14	Surface		1/12/2012	< 0.001	< 0.000015	30.4	< 0.0003	0.0000400	< 0.0001	0.147	< 0.00005	< 0.001
	WQ14	Surface		4/17/2012	< 0.001	< 0.000015	21.8	< 0.0003	0.0000300	< 0.0001	0.283	< 0.00005	< 0.001
	WQ14	Surface		5/23/2012	< 0.001	< 0.000015	13.7	< 0.0003	< 0.00002	0.000200	0.101	< 0.00005	< 0.001
	WQ14	Surface		5/28/2012	< 0.001	< 0.000015	13.4	< 0.0003	< 0.00002	0.000300	0.102	< 0.00005	< 0.001
	WQ14	Surface	Dup	6/4/2012	< 0.001	< 0.000015	14.5	< 0.0003	< 0.00002	0.000200	0.0991	< 0.00005	< 0.001
	WQ14	Surface		6/4/2012	< 0.001	< 0.000015	14.3	< 0.0003	< 0.00002	0.000300	0.0964	< 0.00005	< 0.001
	WQ14	Surface		6/11/2012	< 0.001	< 0.000015	16.7	< 0.0003	< 0.00002	< 0.0001	0.117	< 0.00005	< 0.001
	WQ14	Surface		6/18/2012	< 0.001	< 0.000015	18.1	< 0.0003	< 0.00002	< 0.0001	0.130	< 0.00005	< 0.001
	WQ14	Surface		7/16/2012	< 0.001	< 0.000015	24.8	< 0.0003	< 0.00002	< 0.0001	0.200	< 0.00005	< 0.001
	WQ14	Surface		8/13/2012	0.00200	< 0.000015	28.6	< 0.0003	0.0000200	< 0.0001	0.334	< 0.00005	< 0.001
	WQ14	Surface		9/17/2012	< 0.001	< 0.000015	28.6	< 0.0003	< 0.00002	< 0.0001	0.148	< 0.00005	< 0.001
	WQ14	Surface		10/16/2012	< 0.001	< 0.000015	27.1	< 0.0003	< 0.00002	< 0.0001	0.105	< 0.00005	< 0.001
	WQ14	Surface		11/12/2012	< 0.001	< 0.000015	27.5	< 0.0003	0.0000200	< 0.0001	0.118	< 0.00005	< 0.001
	WQ14	Surface		12/10/2012	0.00200	< 0.000015	33.6	< 0.0003	0.0000300	< 0.0001	0.150	< 0.00005	< 0.001
	WQ14	Surface		4/16/2013	< 0.001	< 0.000015	20.7	< 0.0003	0.0000300	0.000600	0.170	< 0.00005	< 0.001
	WQ14	Surface	Dup	5/14/2013	< 0.001	< 0.000015	13.6	< 0.0003	0.0000200	0.000500	0.105	< 0.00005	< 0.001
	WQ14	Surface		5/14/2013	< 0.001	< 0.000015	13.6	< 0.0003	0.0000200	0.000500	0.110	< 0.00005	< 0.001
	WQ14	Surface		5/21/2013	< 0.001	< 0.000015	15.0	< 0.0003	< 0.00002	< 0.0001	0.116	< 0.00005	< 0.001
	WQ14	Surface		5/28/2013	< 0.001	< 0.000015	18.3	< 0.0003	< 0.00002	0.000400	0.0763	< 0.00005	< 0.001
	WQ14	Surface		6/4/2013	0.00300	-	15.7	< 0.0003	0.0000200	0.000300	0.0950	< 0.00005	< 0.001
	WQ14	Surface	Dup	6/11/2013	< 0.001	0.0000190	18.9	< 0.0003	0.0000200	< 0.0001	0.125	< 0.00005	< 0.001
	WQ14	Surface		6/11/2013	< 0.001	< 0.000015	18.7	< 0.0003	0.0000200	< 0.0001	0.123	0.000460	< 0.001
	WQ14	Surface		6/18/2013	0.0190	0.0000570	173	< 0.0003	0.000290	< 0.0001	1.14	< 0.00005	0.00200
	WQ15	Surface		9/24/2012	< 0.001	< 0.000015	7.70	< 0.0003	< 0.00002	< 0.0001	0.116	< 0.00005	< 0.001
	WQ15	Surface		10/15/2012	< 0.001	< 0.000015	7.50	< 0.0003	< 0.00002	0.00110	0.0767	< 0.00005	< 0.001
	WQ15	Surface		11/13/2012	< 0.001	< 0.000015	7.80	< 0.0003	< 0.00002	< 0.0001	0.0557	< 0.00005	< 0.001
	WQ15	Surface		1/13/2013	< 0.001	< 0.000015	9.20	< 0.0003	< 0.00002	0.000300	0.0928	< 0.00005	< 0.001
	WQ15	Surface		2/12/2013	0.00100	< 0.000015	8.40	< 0.0003	< 0.00002	0.000200	0.108	< 0.00005	< 0.001
	WQ15	Surface		3/11/2013	< 0.001	< 0.000015	9.00	< 0.0003	< 0.00002	0.000200	0.0899	< 0.00005	< 0.001

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Boron (B)-Dissolved	Cadmium (Cd)-Dissolved	Calcium (Ca)-Dissolved	Chromium (Cr)-Dissolved	Cobalt (Co)-Dissolved	Copper (Cu)-Dissolved	Iron (Fe)-Dissolved	Lead (Pb)-Dissolved	Lithium (Li)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ15	Surface		4/15/2013	0.00300	< 0.000015	6.90	< 0.0003	< 0.00002	0.000600	0.0317	< 0.00005	< 0.001
	WQ15	Surface		5/13/2013	< 0.001	< 0.000015	6.30	< 0.0003	< 0.00002	0.000300	0.175	< 0.00005	< 0.001
	WQ15	Surface		5/22/2013	< 0.001	< 0.000015	15.6	< 0.0003	< 0.00002	< 0.0001	0.0717	< 0.00005	< 0.001
	WQ15	Surface		5/27/2013	< 0.001	< 0.000015	7.30	< 0.0003	< 0.00002	0.000200	0.106	< 0.00005	< 0.001
	WQ15	Surface		6/6/2013	0.00100	< 0.000015	6.30	< 0.0003	< 0.00002	0.000200	0.0876	< 0.00005	< 0.001
	WQ15	Surface		6/10/2013	< 0.001	< 0.000015	6.60	< 0.0003	< 0.00002	0.000200	0.0824	< 0.00005	< 0.001
	WQ15	Surface		6/17/2013	< 0.001	< 0.000015	6.00	< 0.0003	< 0.00002	< 0.0001	0.0790	< 0.00005	< 0.001
	WQ15	Surface		4/13/2014	<0.001	<0.000015	8.20	<0.0003	<0.00002	0.000200	0.0800	<0.00005	<0.001
	WQ15	Surface		7/2/2014	<0.001	<0.000015	7.20	<0.0003	<0.00002	0.000300	0.106	<0.00005	<0.001
	WQ15	Surface		9/24/2014	<0.001	<0.000015	9.60	<0.0003	0.0000200	0.000200	0.125	<0.00005	<0.001
	WQ15	Surface		12/8/2014	<0.001	<0.000015	8.60	<0.0003	<0.00002	0.000100	0.0472	<0.00005	<0.001
	WQ16	Surface		9/24/2012	< 0.001	< 0.000015	5.60	< 0.0003	0.0000300	< 0.0001	0.0622	< 0.00005	< 0.001
	WQ16	Surface		10/15/2012	< 0.001	< 0.000015	5.30	< 0.0003	0.0000300	< 0.0001	0.0454	< 0.00005	< 0.001
	WQ16	Surface		11/13/2012	< 0.001	< 0.000015	6.20	< 0.0003	< 0.00002	< 0.0001	0.0132	0.000400	< 0.001
	WQ16	Surface		1/13/2013	< 0.001	< 0.000015	6.70	< 0.0003	< 0.00002	0.000200	0.0331	< 0.00005	< 0.001
	WQ16	Surface		2/12/2013	0.00100	< 0.000015	7.50	< 0.0003	< 0.00002	0.000200	0.0961	< 0.00005	< 0.001
	WQ16	Surface		3/11/2013	< 0.001	0.0000370	7.30	< 0.0003	0.0000200	0.000400	0.143	< 0.00005	< 0.001
	WQ16	Surface		4/15/2013	0.00200	< 0.000015	5.80	< 0.0003	< 0.00002	0.000500	0.0292	< 0.00005	< 0.001
	WQ16	Surface		5/13/2013	< 0.001	< 0.000015	5.50	< 0.0003	< 0.00002	0.000300	0.117	< 0.00005	< 0.001
	WQ16	Surface		5/22/2013	< 0.001	< 0.000015	5.90	< 0.0003	< 0.00002	< 0.0001	0.136	< 0.00005	< 0.001
	WQ16	Surface		5/27/2013	< 0.001	< 0.000015	6.40	< 0.0003	< 0.00002	0.000200	0.0381	< 0.00005	< 0.001
	WQ16	Surface		6/6/2013	0.00100	< 0.000015	5.30	< 0.0003	< 0.00002	< 0.0001	0.0248	< 0.00005	< 0.001
	WQ16	Surface		6/10/2013	< 0.001	< 0.000015	5.60	< 0.0003	< 0.00002	< 0.0001	0.0210	< 0.00005	< 0.001
	WQ16	Surface		6/17/2013	< 0.001	< 0.000015	5.10	< 0.0003	< 0.00002	< 0.0001	0.0214	< 0.00005	< 0.001
	WQ16	Surface		4/13/2014	<0.001	<0.000015	6.10	<0.0003	0.0000200	0.000200	0.0515	<0.00005	<0.001
	WQ16	Surface		7/2/2014	<0.001	<0.000015	6.00	<0.0003	<0.00002	0.000300	0.0326	<0.00005	<0.001
	WQ16	Surface		9/24/2014	<0.001	<0.000015	5.60	<0.0003	0.0000300	0.000300	0.137	<0.00005	<0.001
	WQ16	Surface		12/8/2014	<0.001	<0.000015	6.70	<0.0003	<0.00002	0.000100	0.0244	<0.00005	<0.001
	WQ17	Surface		12/12/2011	< 0.001	< 0.000015	8.10	< 0.0003	0.0000400	0.000600	0.0519	< 0.00005	< 0.001
	WQ17	Surface		3/12/2012	< 0.001	< 0.000015	9.30	< 0.0003	0.0000300	0.000200	0.0397	< 0.00005	< 0.001
	WQ17	Surface	Dup	6/18/2012	< 0.001	< 0.000015	3.70	< 0.0003	0.0000300	< 0.0001	0.0593	< 0.00005	< 0.001
	WQ17	Surface		6/18/2012	< 0.001	< 0.000015	3.20	< 0.0003	< 0.00002	< 0.0001	0.0771	< 0.00005	< 0.001
	WQ17	Surface	Dup	9/17/2012	< 0.001	< 0.000015	8.10	< 0.0003	0.0000300	0.000500	0.0809	< 0.00005	< 0.001
	WQ17	Surface		9/17/2012	< 0.001	< 0.000015	8.00	< 0.0003	0.0000300	0.000500	0.0808	< 0.00005	< 0.001
	WQ17	Surface		1/13/2013	< 0.001	< 0.000015	10.8	< 0.0003	0.0000400	0.000500	0.0502	< 0.00005	< 0.001
	WQ18	Surface		12/12/2011	0.00200	< 0.000015	13.2	< 0.0003	0.0000300	0.000400	0.104	< 0.00005	< 0.001
	WQ18	Surface		3/12/2012	0.00100	< 0.000015	15.0	< 0.0003	0.0000300	< 0.0001	0.119	< 0.00005	0.00100
	WQ18	Surface		6/19/2012	< 0.001	< 0.000015	9.30	< 0.0003	0.0000300	< 0.0001	0.164	< 0.00005	< 0.001
	WQ18	Surface		9/18/2012	< 0.001	< 0.000015	13.4	< 0.0003	< 0.00002	< 0.0001	0.103	< 0.00005	0.00100
	WQ18	Surface		1/16/2013	< 0.001	0.000481	14.1	0.000500	0.0000700	0.00360	0.126	< 0.00005	< 0.001
	WQ19	Surface		6/18/2012	< 0.001	< 0.000015	28.5	< 0.0003	< 0.00002	< 0.0001	0.0121	< 0.00005	< 0.001
	WQ19	Surface		9/17/2012	0.00100	< 0.000015	34.6	< 0.0003	< 0.00002	< 0.0001	0.0114	< 0.00005	< 0.001
	WQ19	Surface		12/10/2012	0.00100	< 0.000015	35.0	< 0.0003	< 0.00002	< 0.0001	0.0162	< 0.00005	< 0.001
	WQ26	Surface		1/13/2013	< 0.001	< 0.000015	18.2	< 0.0003	< 0.00002	0.000200	0.0193	< 0.00005	< 0.001

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Boron (B)-Dissolved	Cadmium (Cd)-Dissolved	Calcium (Ca)-Dissolved	Chromium (Cr)-Dissolved	Cobalt (Co)-Dissolved	Copper (Cu)-Dissolved	Iron (Fe)-Dissolved	Lead (Pb)-Dissolved	Lithium (Li)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ26	Surface		2/12/2013	< 0.001	< 0.000015	17.9	< 0.0003	< 0.00002	0.000200	0.0208	< 0.00005	< 0.001
	WQ26	Surface		3/11/2013	< 0.001	< 0.000015	19.2	< 0.0003	< 0.00002	0.000300	0.0193	< 0.00005	< 0.001
	WQ26	Surface		4/15/2013	0.0240	< 0.000015	13.4	< 0.0003	< 0.00002	0.000400	0.0344	< 0.00005	< 0.001
	WQ26	Surface		5/13/2013	< 0.001	< 0.000015	4.20	< 0.0003	0.0000300	0.000900	0.128	< 0.00005	< 0.001
	WQ26	Surface		5/22/2013	< 0.001	< 0.000015	5.10	< 0.0003	< 0.00002	< 0.0001	0.0433	< 0.00005	< 0.001
	WQ26	Surface		5/27/2013	< 0.001	< 0.000015	5.60	< 0.0003	< 0.00002	0.000500	0.104	< 0.00005	< 0.001
	WQ26	Surface		6/6/2013	0.00200	< 0.000015	5.20	< 0.0003	0.0000300	0.000700	0.0891	< 0.00005	< 0.001
	WQ26	Surface		6/10/2013	< 0.001	< 0.000015	6.20	< 0.0003	0.0000200	0.000200	0.0600	< 0.00005	< 0.001
	WQ26	Surface		6/17/2013	< 0.001	< 0.000015	5.80	< 0.0003	0.0000200	< 0.0001	0.0674	< 0.00005	< 0.001
L1762266-6	WQ26	Surface	Dup	4/27/2016	<0.010	0.00000600	5.40	0.000250	<0.00010	0.000670	0.107	<0.000050	<0.0010
L1762266-3	WQ26	Surface		4/27/2016	<0.010	0.00000500	5.27	0.000240	<0.00010	0.000610	0.108	<0.000050	<0.0010
L1764648-3	WQ26	Surface	Dup	5/3/2016	<0.010	<0.0000050	4.40	0.000230	<0.00010	0.000530	0.0970	<0.000050	<0.0010
L1764648-2	WQ26	Surface		5/3/2016	<0.010	0.00000800	5.25	0.000300	<0.00010	0.000560	0.0930	0.000224	<0.0010
L1767107-3	WQ26	Surface		5/9/2016	<0.010	<0.0000050	5.73	0.000220	<0.00010	<0.00050	0.0720	<0.000050	<0.0010
L1770672-3	WQ26	Surface		5/16/2016	<0.010	<0.0000050	6.36	0.000220	<0.00010	<0.00050	0.0500	<0.000050	<0.0010
L1774541-2	WQ26	Surface		5/25/2016	<0.010	<0.0000050	7.37	0.000210	<0.00010	<0.00050	0.0450	<0.000050	<0.0010
L1788643-2	WQ26	Surface		6/22/2016	<0.010	<0.0000050	6.33	0.000220	<0.00010	<0.00050	0.0680	<0.000050	<0.0010
L1808945-2	WQ26	Surface	Dup	8/3/2016	<0.010	<0.0000050	9.30	0.000170	<0.00010	<0.00050	0.0680	<0.000050	<0.0010
L1808945-6	WQ26	Surface		8/3/2016	<0.010	<0.0000050	9.59	0.000180	<0.00010	<0.00050	0.0660	<0.000050	<0.0010
L1812856-2	WQ26	Surface		8/10/2016	<0.010	<0.0000050	10.2	0.000170	<0.00010	<0.00050	0.0640	<0.000050	<0.0010
L1815654-2	WQ26	Surface		8/16/2016	<0.010	<0.0000050	11.8	0.000100	<0.00010	<0.00050	0.0470	<0.000050	<0.0010
L1819041-4	WQ26	Surface	Dup	8/23/2016	<0.010	<0.0000050	10.9	0.000180	<0.00010	<0.00050	0.0660	<0.000050	<0.0010
L1819041-8	WQ26	Surface		8/23/2016	<0.010	<0.0000050	11.0	0.000170	<0.00010	<0.00050	0.0630	<0.000050	<0.0010
L1823224-5	WQ26	Surface		8/31/2016	<0.010	<0.0000050	11.3	0.000190	<0.00010	<0.00050	0.0680	<0.000050	<0.0010
L1826303-5	WQ26	Surface		9/7/2016	<0.010	<0.0000050	10.5	0.000170	<0.00010	<0.00050	0.0730	<0.000050	<0.0010
L1913531-5	WQ26	Surface		4/12/2017	<0.010	<0.0000050	16.6	0.000140	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L1926080-2	WQ26	Surface		5/11/2017	<0.010	0.00000500	5.85	0.000280	<0.00010	0.000670	0.149	<0.000050	<0.0010
L1928943-5	WQ26	Surface	Dup	5/17/2017	<0.010	0.00000600	5.42	0.000200	<0.00010	0.000590	0.134	<0.000050	<0.0010
L1928943-1	WQ26	Surface		5/17/2017	<0.010	0.00000600	5.48	0.000230	<0.00010	0.000630	0.136	<0.000050	<0.0010
L1932034-3	WQ26	Surface		5/24/2017	<0.010	0.00000700	4.47	0.000200	<0.00010	0.000650	0.126	<0.000050	<0.0010
L1935151-5	WQ26	Surface	Dup	5/30/2017	<0.010	0.00000700	3.90	0.000220	<0.00010	0.000600	0.0990	<0.000050	<0.0010
L1935151-1	WQ26	Surface		5/30/2017	<0.010	0.00000800	3.92	0.000220	<0.00010	0.000580	0.0990	<0.000050	<0.0010
L1939712-4	WQ26	Surface	Dup	6/7/2017	<0.010	<0.0000050	5.22	0.000210	<0.00010	0.000520	0.0790	<0.000050	<0.0010
L1939712-3	WQ26	Surface		6/7/2017	<0.010	<0.0000050	5.24	0.000210	<0.00010	<0.00050	0.0760	<0.000050	<0.0010
L1964508-1	WQ26	Surface		7/24/2017	<0.010	<0.0000050	12.0	0.000160	<0.00010	<0.00050	0.0410	<0.000050	<0.0010
L1984944-4	WQ26	Surface		8/30/2017	<0.010	<0.0000050	15.9	<0.00010	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L1988190-3	WQ26	Surface		9/6/2017	<0.010	<0.0000050	15.7	<0.00010	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L1991279-3	WQ26	Surface		9/13/2017	<0.010	<0.0000050	15.3	0.000130	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L1995655-1	WQ26	Surface		9/21/2017	<0.010	<0.0000050	14.6	0.000140	<0.00010	<0.00050	0.0400	<0.000050	<0.0010
L1999769-1	WQ26	Surface		9/28/2017	<0.010	<0.0000050	13.9	0.000140	<0.00010	<0.00050	0.0300	<0.000050	<0.0010
L2009845-5	WQ26	Surface		10/17/2017	<0.010	0.00000900	8.60	0.000210	<0.00010	<0.00050	0.0960	<0.000050	<0.0010
L2020333-5	WQ26	Surface		11/7/2017	<0.010	<0.0000050	9.55	0.000200	<0.00010	<0.00050	0.0580	<0.000050	<0.0010
L2035356-3	WQ26	Surface		12/12/2017	<0.010	<0.0000050	11.9	0.000140	<0.00010	<0.00050	0.0530	<0.000050	<0.0010
L2049678-3	WQ26	Surface		1/24/2018	<0.010	<0.0000050	14.0	<0.00010	<0.00010	<0.00050	0.0370	<0.000050	<0.0010

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Boron (B)-Dissolved	Cadmium (Cd)-Dissolved	Calcium (Ca)-Dissolved	Chromium (Cr)-Dissolved	Cobalt (Co)-Dissolved	Copper (Cu)-Dissolved	Iron (Fe)-Dissolved	Lead (Pb)-Dissolved	Lithium (Li)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2057605-1	WQ26	Surface		2/14/2018	<0.010	<0.0000050	14.3	0.000140	<0.00010	<0.00050	0.0310	<0.000050	<0.0010
L2074294-4	WQ26	Surface		3/28/2018	<0.010	<0.0000050	14.3	0.000150	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L2081503-5	WQ26	Surface		4/17/2018	<0.010	<0.0000050	15.8	<0.00010	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L2097084-5	WQ26	Surface		5/16/2018	<0.010	0.00000540	3.46	0.000240	<0.00010	0.000560	0.0860	<0.000050	<0.0010
L2103632-4	WQ26	Surface		5/29/2018	<0.010	<0.0000050	5.66	0.000230	<0.00010	0.000540	0.0590	<0.000050	<0.0010
L2132986-5	WQ26	Surface		7/18/2018	<0.010	<0.0000050	11.0	0.000110	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L2143640-4	WQ26	Surface	Dup	8/7/2018	<0.010	<0.0000050	12.1	0.000170	<0.00010	<0.00050	0.0330	<0.000050	<0.0010
L2143640-3	WQ26	Surface		8/7/2018	<0.010	<0.0000050	12.2	0.000150	<0.00010	<0.00050	0.0320	<0.000050	<0.0010
L2156026-1	WQ26	Surface		8/28/2018	<0.010	<0.0000050	14.9	0.000130	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L2159605-1	WQ26	Surface		9/4/2018	<0.010	<0.0000050	14.8	0.000140	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L2160840-4	WQ26	Surface	Dup	9/7/2018	<0.010	<0.0000050	15.8	0.000170	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L2160840-1	WQ26	Surface		9/7/2018	<0.010	<0.0000050	15.4	0.000720	<0.00010	0.000690	0.0300	<0.000050	<0.0010
L2163669-3	WQ26	Surface		9/11/2018	<0.010	<0.0000050	15.1	0.000140	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L2188218-4	WQ26	Surface		10/26/2018	<0.010	<0.0000050	11.2	0.000190	<0.00010	<0.00050	0.0370	<0.000050	<0.0010
L2203408-1	WQ26	Surface		11/27/2018	<0.010	<0.0000050	8.70	0.000170	<0.00010	<0.00050	0.0530	<0.000050	<0.0010
L2213246-2	WQ26	Surface		12/18/2018	<0.010	<0.0000050	11.2	0.000170	<0.00010	<0.00050	0.0410	<0.000050	<0.0010
L2227701-2	WQ26	Surface		1/30/2019	<0.010	<0.0000050	12.7	0.000190	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L2232050-1	WQ26	Surface		2/11/2019	<0.010	<0.0000050	14.2	0.000150	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L2244756-5	WQ26	Surface	Dup	3/13/2019	<0.010	<0.0000050	15.2	0.000170	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L2244756-2	WQ26	Surface		3/13/2019	<0.010	<0.0000050	14.7	0.000150	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L2256053-2	WQ26	Surface		4/8/2019	<0.010	0.00000700	9.74	0.000220	<0.00010	<0.00050	0.109	<0.000050	<0.0010
L2269368-2	WQ26	Surface		5/4/2019	<0.010	<0.0000050	6.28	0.000220	<0.00010	0.000600	0.135	<0.000050	<0.0010
L2273497-4	WQ26	Surface		5/13/2019	<0.010	<0.0000050	5.17	0.000200	<0.00010	0.000630	0.0990	<0.000050	<0.0010
L2277964-7	WQ26	Surface		5/21/2019	<0.010	0.00000940	4.50	0.000240	<0.00010	0.000790	0.127	<0.000050	<0.0010
L2282975-2	WQ26	Surface		5/29/2019	<0.010	0.00000590	6.04	0.000230	<0.00010	0.000560	0.0670	<0.000050	<0.0010
L2285579-2	WQ26	Surface		6/3/2019	<0.010	<0.0000050	6.76	0.000210	<0.00010	<0.00050	0.0580	<0.000050	<0.0010
L2312637-3	WQ26	Surface		7/16/2019	<0.010	0.00000500	7.26	0.000220	<0.00010	<0.00050	0.0670	<0.000050	<0.0010
L2326388-3	WQ26	Surface		8/8/2019	<0.010	<0.0000050	8.34	0.000410	<0.00010	<0.00050	0.0810	<0.000050	<0.0010
L2349445-7	WQ26	Surface	Dup	9/16/2019	<0.010	<0.0000050	10.2	0.000180	<0.00010	0.00423	0.0650	<0.000050	<0.0010
L2349445-5	WQ26	Surface		9/16/2019	<0.010	<0.0000050	10.2	0.000180	<0.00010	<0.00050	0.0640	<0.000050	<0.0010
L2371052-6	WQ26	Surface	Dup	10/22/2019	<0.010	<0.0000050	7.82	0.000210	<0.00010	0.000680	0.0870	<0.000050	<0.0010
L2371052-4	WQ26	Surface		10/22/2019	<0.010	0.00000540	7.99	0.000190	<0.00010	0.000940	0.0870	<0.000050	<0.0010
L2383392-2	WQ26	Surface		11/14/2019	<0.010	<0.0000050	6.97	0.000220	<0.00010	<0.00050	0.0750	<0.000050	<0.0010
VA19A0726-001	WQ26	Surface		12/16/2019	<0.010	<0.0000050	8.77	0.000200	<0.00010	0.000670	0.0660	<0.000050	<0.0010
VA20A0688-002	WQ26	Surface		1/21/2020	<0.010	<0.0000050	12.0	0.000160	<0.00010	0.000260	0.0430	<0.000050	<0.0010
VA20A1887-002	WQ26	Surface		2/13/2020	<0.010	<0.0000050	12.5	0.000160	<0.00010	<0.00020	0.0320	<0.000050	<0.0010
VA20A3516-002	WQ26	Surface		3/16/2020	<0.010	<0.0000050	13.2	0.000140	<0.00010	<0.00020	0.0270	<0.000050	<0.0010
VA20A4555-001	WQ26	Surface		4/7/2020	<0.010	<0.0000050	15.8	0.000160	<0.00010	0.000240	0.0220	<0.000050	<0.0010
VA20A6574-003	WQ26	Surface		5/14/2020	<0.010	<0.0000050	4.68	0.000230	<0.00010	0.000540	0.0970	<0.000050	<0.0010
VA20B2156-002	WQ26	Surface		8/5/2020	<0.010	<0.0000050	11.4	0.000150	<0.00010	0.000220	0.0500	<0.000050	<0.0010
VA20C1166-003	WQ26	Surface		11/17/2020	<0.010	<0.0000050	7.37	0.000220	<0.00010	0.000390	0.0790	<0.000050	<0.0010
	WQ27	Surface		4/13/2014	<0.001	<0.000015	13.7	0.000400	<0.00002	0.000200	0.0309	<0.00005	<0.001
	WQ27	Surface		7/2/2014	<0.001	<0.000015	8.00	<0.0003	<0.00002	0.000400	0.0557	<0.00005	<0.001
	WQ27	Surface		9/24/2014	<0.001	<0.000015	18.3	<0.0003	<0.00002	0.000200	0.0263	<0.00005	<0.001

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Boron (B)-Dissolved	Cadmium (Cd)-Dissolved	Calcium (Ca)-Dissolved	Chromium (Cr)-Dissolved	Cobalt (Co)-Dissolved	Copper (Cu)-Dissolved	Iron (Fe)-Dissolved	Lead (Pb)-Dissolved	Lithium (Li)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ27	Surface		12/9/2014	<0.001	<0.000015	15.7	0.000400	<0.00002	0.000100	0.0306	<0.00005	<0.001
L1762266-4	WQ27	Surface		4/27/2016	<0.010	0.00000800	4.01	0.000250	<0.00010	0.000670	0.118	<0.000050	<0.0010
L1764648-6	WQ27	Surface		5/3/2016	<0.010	<0.0000050	3.97	0.000270	<0.00010	0.000530	0.0970	<0.000050	<0.0010
L1767107-4	WQ27	Surface		5/9/2016	<0.010	<0.0000050	4.50	0.000230	<0.00010	<0.00050	0.0750	<0.000050	<0.0010
L1770672-4	WQ27	Surface		5/16/2016	<0.010	<0.0000050	5.15	0.000170	<0.00010	<0.00050	0.0630	<0.000050	<0.0010
L1774541-3	WQ27	Surface		5/25/2016	<0.010	<0.0000050	5.89	0.000210	<0.00010	<0.00050	0.0580	<0.000050	<0.0010
L1788643-6	WQ27	Surface	Dup	6/22/2016	<0.010	<0.0000050	5.20	0.000220	<0.00010	<0.00050	0.0780	<0.000050	<0.0010
L1788643-3	WQ27	Surface		6/22/2016	<0.010	<0.0000050	5.07	0.000230	<0.00010	<0.00050	0.0800	<0.000050	<0.0010
L1808945-3	WQ27	Surface		8/3/2016	<0.010	<0.0000050	7.61	0.000200	<0.00010	<0.00050	0.0920	<0.000050	<0.0010
L1812856-3	WQ27	Surface		8/10/2016	<0.010	0.00000500	8.33	0.000200	<0.00010	<0.00050	0.0980	<0.000050	<0.0010
L1815654-3	WQ27	Surface		8/16/2016	<0.010	<0.0000050	9.88	0.000130	<0.00010	<0.00050	0.0810	<0.000050	<0.0010
L1819041-10	WQ27	Surface		8/23/2016	<0.010	<0.0000050	8.91	0.000560	<0.00010	<0.00050	0.104	<0.000050	<0.0010
L1823224-6	WQ27	Surface		8/31/2016	<0.010	<0.0000050	9.21	0.000200	<0.00010	<0.00050	0.100	<0.000050	<0.0010
L1826303-2	WQ27	Surface		9/7/2016	<0.010	<0.0000050	8.03	0.000290	<0.00010	<0.00050	0.100	<0.000050	<0.0010
L1913006-2	WQ27	Surface		4/11/2017	<0.010	<0.0000050	14.1	0.000120	<0.00010	<0.00050	0.0460	<0.000050	<0.0010
L1925486-3	WQ27	Surface		5/10/2017	<0.010	0.00000900	4.90	0.000270	<0.00010	0.000650	0.171	<0.000050	<0.0010
L1928943-2	WQ27	Surface		5/17/2017	<0.010	0.00000700	4.30	0.000230	<0.00010	0.000640	0.143	<0.000050	<0.0010
L1932034-2	WQ27	Surface		5/24/2017	<0.010	0.0000110	3.78	0.000250	<0.00010	0.000630	0.131	<0.000050	<0.0010
L1935151-2	WQ27	Surface		5/30/2017	<0.010	0.00000700	3.28	0.000240	<0.00010	0.000560	0.103	<0.000050	<0.0010
L1939712-2	WQ27	Surface		6/7/2017	<0.010	0.00000500	4.11	0.000210	<0.00010	<0.00050	0.0810	<0.000050	<0.0010
L1961670-3	WQ27	Surface		7/18/2017	<0.010	<0.0000050	9.17	0.000160	<0.00010	<0.00050	0.0480	<0.000050	<0.0010
L1984944-3	WQ27	Surface		8/30/2017	<0.010	<0.0000050	14.7	0.000140	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L1988832-2	WQ27	Surface		9/8/2017	<0.010	<0.0000050	14.2	0.000170	<0.00010	<0.00050	0.0420	<0.000050	<0.0010
L1991279-2	WQ27	Surface	Dup	9/13/2017	<0.010	<0.0000050	13.5	0.000200	<0.00010	<0.00050	0.0550	<0.000050	<0.0010
L1991279-6	WQ27	Surface		9/13/2017	<0.010	<0.0000050	13.4	0.000180	<0.00010	<0.00050	0.0570	<0.000050	<0.0010
L1995655-2	WQ27	Surface		9/21/2017	<0.010	<0.0000050	11.0	0.000200	<0.00010	<0.00050	0.0880	<0.000050	<0.0010
L1999769-2	WQ27	Surface		9/28/2017	<0.010	<0.0000050	12.1	0.000170	<0.00010	<0.00050	0.0540	<0.000050	<0.0010
L2011329-3	WQ27	Surface		10/19/2017	<0.010	<0.0000050	7.42	0.000240	<0.00010	<0.00050	0.129	<0.000050	<0.0010
L2020946-2	WQ27	Surface		11/8/2017	<0.010	<0.0000050	6.56	0.000200	<0.00010	<0.00050	0.0700	<0.000050	<0.0010
L2035356-2	WQ27	Surface		12/12/2017	<0.010	<0.0000050	9.13	0.000190	<0.00010	<0.00050	0.0660	<0.000050	<0.0010
L2049678-4	WQ27	Surface		1/24/2018	<0.010	<0.0000050	11.8	<0.00010	<0.00010	<0.00050	0.0540	<0.000050	<0.0010
L2057605-2	WQ27	Surface		2/14/2018	<0.010	<0.0000050	11.1	0.000150	<0.00010	<0.00050	0.0470	<0.000050	<0.0010
L2074294-5	WQ27	Surface		3/28/2018	<0.010	<0.0000050	12.4	0.000180	<0.00010	<0.00050	0.0350	<0.000050	<0.0010
L2081503-6	WQ27	Surface		4/17/2018	<0.010	<0.0000050	13.0	0.000220	<0.00010	<0.00050	0.0430	<0.000050	<0.0010
L2093061-1	WQ27	Surface		5/9/2018	<0.010	0.0000100	3.17	0.000280	<0.00010	0.000720	0.156	<0.000050	<0.0010
L2097084-6	WQ27	Surface		5/16/2018	<0.010	0.00000770	2.79	0.000230	<0.00010	0.000520	0.0860	<0.000050	<0.0010
L2100419-3	WQ27	Surface	Dup	5/23/2018	<0.010	0.00000520	3.16	0.000220	<0.00010	0.000510	0.0700	<0.000050	<0.0010
L2100419-1	WQ27	Surface		5/23/2018	<0.010	0.00000900	3.26	0.000180	<0.00010	0.000500	0.0710	<0.000050	<0.0010
L2103632-5	WQ27	Surface		5/29/2018	<0.010	<0.0000050	4.33	0.000220	<0.00010	<0.00050	0.0660	<0.000050	<0.0010
L2106738-3	WQ27	Surface	Dup	6/4/2018	<0.010	<0.0000050	4.30	<0.00010	<0.00010	<0.00050	0.0610	<0.000050	<0.0010
L2106738-1	WQ27	Surface		6/4/2018	<0.010	0.00000590	4.32	<0.00010	<0.00010	<0.00050	0.0610	<0.000050	<0.0010
L2132986-4	WQ27	Surface		7/18/2018	<0.010	<0.0000050	9.11	0.000150	<0.00010	<0.00050	0.0470	<0.000050	<0.0010
L2143640-8	WQ27	Surface		8/7/2018	<0.010	<0.0000050	10.3	0.000220	<0.00010	<0.00050	0.0620	<0.000050	<0.0010
L2156026-4	WQ27	Surface	Dup	8/28/2018	<0.010	<0.0000050	13.3	0.000220	<0.00010	<0.00050	0.0340	<0.000050	<0.0010

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					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2156026-2	WQ27	Surface		8/28/2018	<0.010	0.00000690	13.0	0.000190	<0.00010	<0.00050	0.0330	<0.000050	<0.0010
L2159605-2	WQ27	Surface		9/4/2018	<0.010	<0.0000050	13.1	0.000190	<0.00010	<0.00050	0.0340	<0.000050	<0.0010
L2160840-2	WQ27	Surface		9/7/2018	<0.010	<0.0000050	14.0	0.000210	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L2163669-4	WQ27	Surface		9/11/2018	<0.010	<0.0000050	12.7	0.000160	<0.00010	<0.00050	0.0410	<0.000050	<0.0010
L2188218-3	WQ27	Surface		10/26/2018	<0.010	<0.0000050	9.15	0.000190	<0.00010	<0.00050	0.0520	<0.000050	<0.0010
L2204508-6	WQ27	Surface	Dup	11/29/2018	<0.010	<0.0000050	7.27	0.000120	<0.00010	<0.00050	0.0630	<0.000050	<0.0010
L2204508-4	WQ27	Surface		11/29/2018	<0.010	<0.0000050	7.52	0.000120	<0.00010	<0.00050	0.0630	<0.000050	<0.0010
L2213246-3	WQ27	Surface		12/18/2018	<0.010	<0.0000050	9.10	0.000210	<0.00010	<0.00050	0.0580	<0.000050	<0.0010
L2227701-3	WQ27	Surface		1/30/2019	<0.010	<0.0000050	10.6	0.000230	<0.00010	<0.00050	0.0480	<0.000050	<0.0010
L2232050-2	WQ27	Surface		2/11/2019	<0.010	<0.0000050	12.1	0.000190	<0.00010	<0.00050	0.0400	<0.000050	<0.0010
L2244756-3	WQ27	Surface		3/13/2019	<0.010	<0.0000050	13.1	0.000220	<0.00010	<0.00050	0.0360	<0.000050	<0.0010
L2256053-3	WQ27	Surface		4/8/2019	<0.010	<0.0000050	10.3	0.000240	<0.00010	<0.00050	0.0950	<0.000050	<0.0010
L2269368-3	WQ27	Surface		5/4/2019	<0.010	0.00000700	5.30	0.000250	<0.00010	0.000560	0.153	<0.000050	<0.0010
L2274397-1	WQ27	Surface		5/14/2019	<0.010	<0.0000050	4.04	0.000240	<0.00010	0.000730	0.108	<0.000050	<0.0010
L2277964-6	WQ27	Surface		5/21/2019	<0.010	0.0000100	3.38	0.000230	<0.00010	0.000690	0.123	<0.000050	<0.0010
L2282975-3	WQ27	Surface		5/29/2019	<0.010	<0.0000050	4.42	0.000220	<0.00010	0.000520	0.0760	<0.000050	<0.0010
L2285579-3	WQ27	Surface		6/3/2019	<0.010	<0.0000050	5.05	0.000210	<0.00010	0.000500	0.0650	<0.000050	<0.0010
L2312637-4	WQ27	Surface		7/16/2019	<0.010	<0.0000050	5.62	0.000180	<0.00010	<0.00050	0.0780	<0.000050	<0.0010
L2326388-2	WQ27	Surface		8/8/2019	<0.010	<0.0000050	6.33	0.000210	<0.00010	<0.00050	0.101	<0.000050	<0.0010
L2350223-2	WQ27	Surface		9/17/2019	<0.010	<0.0000050	7.74	0.000220	<0.00010	<0.00050	0.0970	<0.000050	<0.0010
L2372667-2	WQ27	Surface		10/23/2019	<0.010	<0.0000050	5.75	0.000200	<0.00010	<0.00050	0.0910	<0.000050	<0.0010
L2383392-3	WQ27	Surface		11/14/2019	<0.010	<0.0000050	5.35	0.000220	<0.00010	0.000820	0.0790	<0.000050	<0.0010
VA19A0726-002	WQ27	Surface		12/16/2019	<0.010	0.0000109	7.16	0.000220	<0.00010	0.000380	0.0800	<0.000050	<0.0010
VA20A0812-002	WQ27	Surface		1/23/2020	<0.010	<0.0000050	9.59	0.000190	<0.00010	0.000220	0.0630	<0.000050	<0.0010
VA20A1887-005	WQ27	Surface		2/13/2020	<0.010	<0.0000050	10.6	0.000180	<0.00010	0.000220	0.0470	<0.000050	<0.0010
VA20A3516-003	WQ27	Surface		3/16/2020	<0.010	<0.0000050	11.2	0.000200	<0.00010	<0.00020	0.0420	<0.000050	<0.0010
VA20A4369-002	WQ27	Surface		4/1/2020	<0.010	<0.0000050	13.3	0.000200	<0.00010	<0.00020	0.0350	<0.000050	<0.0010
L1913006-4	WQ28	Surface		4/11/2017	<0.010	<0.0000050	13.9	0.000190	<0.00010	<0.00050	0.0620	<0.000050	<0.0010
L1925486-2	WQ28	Surface		5/10/2017	<0.010	0.00000900	4.86	0.000260	<0.00010	0.000650	0.170	<0.000050	<0.0010
L1928943-3	WQ28	Surface		5/17/2017	<0.010	<0.0000050	4.57	0.000220	<0.00010	0.000660	0.141	<0.000050	<0.0010
L1932034-4	WQ28	Surface	Dup	5/24/2017	<0.010	0.0000200	3.58	0.000200	<0.00010	0.000650	0.141	<0.000050	<0.0010
L1932034-1	WQ28	Surface		5/24/2017	<0.010	0.0000230	3.70	0.000250	<0.00010	0.000830	0.161	<0.000050	<0.0010
L1935151-3	WQ28	Surface		5/30/2017	<0.010	0.0000100	3.20	0.000210	<0.00010	0.000580	0.109	<0.000050	<0.0010
L1939712-1	WQ28	Surface		6/7/2017	<0.010	0.00000700	4.03	0.000220	<0.00010	0.000500	0.0840	<0.000050	<0.0010
L1961670-5	WQ28	Surface	Dup	7/18/2017	<0.010	<0.0000050	9.00	0.000160	<0.00010	<0.00050	0.0590	<0.000050	<0.0010
L1961670-4	WQ28	Surface		7/18/2017	<0.010	<0.0000050	8.94	0.000180	<0.00010	<0.00050	0.0580	<0.000050	<0.0010
L1984944-2	WQ28	Surface		8/30/2017	<0.010	<0.0000050	14.9	0.000190	<0.00010	<0.00050	0.0430	<0.000050	<0.0010
L1988832-3	WQ28	Surface		9/8/2017	<0.010	<0.0000050	14.3	0.000220	<0.00010	<0.00050	0.0620	<0.000050	<0.0010
L1991279-1	WQ28	Surface		9/13/2017	<0.010	<0.0000050	13.2	0.000190	<0.00010	<0.00050	0.0770	<0.000050	<0.0010
L1995655-3	WQ28	Surface	Dup	9/21/2017	<0.010	<0.0000050	10.4	0.000200	<0.00010	<0.00050	0.106	<0.000050	<0.0010
L1995655-5	WQ28	Surface		9/21/2017	<0.010	<0.0000050	10.2	0.000190	<0.00010	<0.00050	0.103	<0.000050	<0.0010
L1999769-3	WQ28	Surface	Dup	9/28/2017	<0.010	<0.0000050	11.8	0.000200	<0.00010	<0.00050	0.0730	<0.000050	<0.0010
L1999769-4	WQ28	Surface		9/28/2017	<0.010	<0.0000050	11.5	0.000200	<0.00010	<0.00050	0.0710	<0.000050	<0.0010
L2011329-4	WQ28	Surface		10/19/2017	<0.010	<0.0000050	7.04	0.000240	<0.00010	0.000700	0.140	<0.000050	<0.0010

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Boron (B)-Dissolved	Cadmium (Cd)-Dissolved	Calcium (Ca)-Dissolved	Chromium (Cr)-Dissolved	Cobalt (Co)-Dissolved	Copper (Cu)-Dissolved	Iron (Fe)-Dissolved	Lead (Pb)-Dissolved	Lithium (Li)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2020946-3	WQ28	Surface		11/8/2017	<0.010	0.00000600	6.65	0.000180	<0.00010	<0.00050	0.0750	<0.000050	<0.0010
L2035356-1	WQ28	Surface		12/12/2017	<0.010	<0.0000050	8.95	0.000170	<0.00010	<0.00050	0.0740	<0.000050	<0.0010
L2049678-5	WQ28	Surface		1/24/2018	<0.010	<0.0000050	11.6	0.000210	<0.00010	<0.00050	0.0640	<0.000050	<0.0010
L2057605-3	WQ28	Surface		2/14/2018	<0.010	<0.0000050	11.4	0.000180	<0.00010	<0.00050	0.0610	<0.000050	<0.0010
L2074294-6	WQ28	Surface		3/28/2018	<0.010	<0.0000050	12.2	0.000220	<0.00010	<0.00050	0.0480	<0.000050	<0.0010
L2081503-7	WQ28	Surface		4/17/2018	<0.010	<0.0000050	12.9	<0.00010	<0.00010	<0.00050	0.0550	<0.000050	<0.0010
L2093061-3	WQ28	Surface	Dup	5/9/2018	<0.010	0.0000111	2.99	0.000280	<0.00010	0.000720	0.155	<0.000050	<0.0010
L2093061-2	WQ28	Surface		5/9/2018	<0.010	0.0000113	3.04	0.000270	<0.00010	0.000760	0.157	<0.000050	<0.0010
L2097084-7	WQ28	Surface		5/16/2018	<0.010	0.00000810	2.73	0.000240	<0.00010	0.000510	0.0860	<0.000050	<0.0010
L2100419-2	WQ28	Surface		5/23/2018	<0.010	0.00000570	3.16	0.000310	<0.00010	0.000510	0.0760	<0.000050	<0.0010
L2103632-6	WQ28	Surface		5/29/2018	<0.010	0.00000620	4.15	0.000190	<0.00010	<0.00050	0.0740	<0.000050	<0.0010
L2106738-2	WQ28	Surface		6/4/2018	<0.010	<0.0000050	4.15	0.000130	<0.00010	<0.00050	0.0650	<0.000050	<0.0010
L2132986-3	WQ28	Surface		7/18/2018	<0.010	<0.0000050	9.28	0.000140	<0.00010	<0.00050	0.0710	<0.000050	<0.0010
L2143640-7	WQ28	Surface		8/7/2018	<0.010	<0.0000050	10.1	0.000210	<0.00010	<0.00050	0.0860	<0.000050	<0.0010
L2156026-3	WQ28	Surface		8/28/2018	<0.010	<0.0000050	13.3	0.000210	<0.00010	<0.00050	0.0460	<0.000050	<0.0010
L2159605-4	WQ28	Surface	Dup	9/4/2018	<0.010	<0.0000050	13.1	0.000220	<0.00010	<0.00050	0.0520	<0.000050	<0.0010
L2159605-3	WQ28	Surface		9/4/2018	<0.010	<0.0000050	13.2	0.000210	<0.00010	<0.00050	0.0530	<0.000050	<0.0010
L2160840-3	WQ28	Surface		9/7/2018	<0.010	<0.0000050	13.7	0.000240	<0.00010	<0.00050	0.0430	<0.000050	<0.0010
L2163669-5	WQ28	Surface		9/11/2018	<0.010	<0.0000050	11.7	0.000200	<0.00010	<0.00050	0.0610	<0.000050	<0.0010
L2188218-2	WQ28	Surface		10/26/2018	<0.010	<0.0000050	8.80	0.000190	<0.00010	<0.00050	0.0590	<0.000050	<0.0010
L2204508-5	WQ28	Surface		11/29/2018	<0.010	<0.0000050	7.08	0.000180	<0.00010	<0.00050	0.0680	<0.000050	<0.0010
L2213246-4	WQ28	Surface		12/18/2018	<0.010	<0.0000050	8.67	0.000210	<0.00010	<0.00050	0.0660	<0.000050	<0.0010
L2227701-4	WQ28	Surface		1/30/2019	<0.010	<0.0000050	10.5	0.000190	<0.00010	<0.00050	0.0600	<0.000050	<0.0010
L2232050-3	WQ28	Surface		2/11/2019	<0.010	<0.0000050	12.1	0.000250	<0.00010	<0.00050	0.0540	<0.000050	<0.0010
L2244756-4	WQ28	Surface		3/13/2019	<0.010	<0.0000050	13.3	0.000250	<0.00010	<0.00050	0.0450	<0.000050	<0.0010
L2256053-4	WQ28	Surface		4/8/2019	<0.010	<0.0000050	12.8	0.000190	<0.00010	<0.00050	0.0550	<0.000050	<0.0010
L2269368-4	WQ28	Surface		5/4/2019	<0.010	0.00000720	5.23	0.000250	<0.00010	0.000600	0.163	<0.000050	<0.0010
L2274397-2	WQ28	Surface		5/14/2019	<0.010	<0.0000050	3.94	0.000240	<0.00010	0.000750	0.110	<0.000050	<0.0010
L2277964-8	WQ28	Surface	Dup	5/21/2019	<0.010	0.00000950	3.59	0.000230	<0.00010	0.000680	0.133	<0.000050	<0.0010
L2277964-5	WQ28	Surface		5/21/2019	<0.010	0.00000950	3.34	0.000230	<0.00010	0.000660	0.134	<0.000050	<0.0010
L2282975-6	WQ28	Surface	Dup	5/29/2019	<0.010	0.00000540	4.39	0.000230	<0.00010	0.000520	0.0820	<0.000050	<0.0010
L2282975-4	WQ28	Surface		5/29/2019	<0.010	0.00000510	4.25	0.000210	<0.00010	0.000550	0.0810	<0.000050	<0.0010
L2285579-4	WQ28	Surface		6/3/2019	<0.010	0.00000560	4.91	0.000190	<0.00010	<0.00050	0.0700	<0.000050	<0.0010
L2312637-5	WQ28	Surface		7/16/2019	<0.010	<0.0000050	5.44	0.000210	<0.00010	<0.00050	0.0820	<0.000050	<0.0010
L2326388-4	WQ28	Surface		8/8/2019	<0.010	<0.0000050	5.93	0.000210	<0.00010	<0.00050	0.110	<0.000050	<0.0010
L2350223-3	WQ28	Surface		9/17/2019	<0.010	<0.0000050	8.33	0.000240	<0.00010	<0.00050	0.0920	<0.000050	<0.0010
L2372667-3	WQ28	Surface		10/23/2019	<0.010	<0.0000050	5.79	0.000200	<0.00010	<0.00050	0.0940	<0.000050	<0.0010
L2383392-4	WQ28	Surface		11/14/2019	<0.010	<0.0000050	5.26	0.000240	<0.00010	<0.00050	0.0870	<0.000050	<0.0010
VA19A0726-003	WQ28	Surface		12/16/2019	<0.010	0.00000570	6.94	0.000230	<0.00010	0.000380	0.0890	<0.000050	<0.0010
VA20A0812-003	WQ28	Surface		1/23/2020	<0.010	<0.0000050	9.30	0.000210	<0.00010	0.000200	0.0700	<0.000050	<0.0010
VA20A1887-004	WQ28	Surface		2/13/2020	<0.010	<0.0000050	9.73	0.000200	<0.00010	<0.00020	0.0520	<0.000050	<0.0010
VA20A3516-004	WQ28	Surface		3/16/2020	<0.010	<0.0000050	11.0	0.000230	<0.00010	<0.00020	0.0530	<0.000050	<0.0010
VA20A4369-003	WQ28	Surface		4/1/2020	<0.010	<0.0000050	12.6	0.000240	<0.00010	<0.00020	0.0480	<0.000050	<0.0010
VA20A6356-004	WQ28	Surface		5/11/2020	<0.010	0.00000680	3.83	0.000240	<0.00010	0.000550	0.110	<0.000050	<0.0010

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Boron (B)-Dissolved	Cadmium (Cd)-Dissolved	Calcium (Ca)-Dissolved	Chromium (Cr)-Dissolved	Cobalt (Co)-Dissolved	Copper (Cu)-Dissolved	Iron (Fe)-Dissolved	Lead (Pb)-Dissolved	Lithium (Li)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ3	Surface		5/22/2012	< 0.001	< 0.000015	5.80	0.000500	0.0000300	0.000600	0.134	< 0.00005	< 0.001
	WQ3	Surface		5/29/2012	< 0.001	< 0.000015	5.60	0.000300	< 0.00002	0.000500	0.105	< 0.00005	< 0.001
	WQ3	Surface		6/5/2012	< 0.001	< 0.000015	6.10	0.000400	0.0000200	0.000400	0.0867	< 0.00005	< 0.001
	WQ3	Surface		6/12/2012	< 0.001	< 0.000015	6.70	0.000600	0.0000300	0.000100	0.0808	< 0.00005	< 0.001
	WQ3	Surface		6/19/2012	< 0.001	< 0.000015	7.70	0.000900	< 0.00002	< 0.0001	0.0828	< 0.00005	< 0.001
	WQ3	Surface		7/17/2012	< 0.001	< 0.000015	9.90	0.000600	< 0.00002	< 0.0001	0.0591	< 0.00005	< 0.001
	WQ3	Surface		8/14/2012	0.00300	< 0.000015	11.8	0.000600	< 0.00002	< 0.0001	0.0671	< 0.00005	< 0.001
	WQ3	Surface		9/18/2012	< 0.001	< 0.000015	12.8	0.000500	< 0.00002	< 0.0001	0.0498	< 0.00005	< 0.001
	WQ3	Surface		10/15/2012	< 0.001	< 0.000015	12.3	0.000900	< 0.00002	< 0.0001	0.0473	< 0.00005	< 0.001
	WQ3	Surface		11/13/2012	< 0.001	< 0.000015	11.9	0.00100	< 0.00002	< 0.0001	0.0458	0.0000700	< 0.001
	WQ3	Surface		12/10/2012	< 0.001	< 0.000015	22.4	< 0.0003	< 0.00002	< 0.0001	0.120	< 0.00005	< 0.001
	WQ3	Surface		1/13/2013	< 0.001	< 0.000015	13.5	0.000800	< 0.00002	< 0.0001	0.0271	< 0.00005	< 0.001
	WQ3	Surface		2/12/2013	0.00100	< 0.000015	13.1	0.000900	< 0.00002	0.000100	0.0312	< 0.00005	< 0.001
	WQ3	Surface		3/11/2013	< 0.001	< 0.000015	14.2	0.000900	< 0.00002	< 0.0001	0.0288	< 0.00005	< 0.001
	WQ3	Surface		4/15/2013	0.00600	< 0.000015	11.7	0.000800	< 0.00002	0.000400	0.0471	< 0.00005	< 0.001
	WQ3	Surface		5/13/2013	< 0.001	0.0000420	5.70	0.000500	0.0000600	0.00110	0.201	< 0.00005	< 0.001
	WQ3	Surface		5/22/2013	< 0.001	< 0.000015	6.30	< 0.0003	0.0000300	0.000200	0.126	< 0.00005	< 0.001
	WQ3	Surface		5/27/2013	< 0.001	< 0.000015	7.40	0.000300	< 0.00002	0.000500	0.117	< 0.00005	< 0.001
	WQ3	Surface		6/6/2013	0.00200	< 0.000015	6.40	0.000300	0.0000500	0.000700	0.113	< 0.00005	< 0.001
	WQ3	Surface		6/10/2013	< 0.001	< 0.000015	7.70	0.000500	0.0000300	0.000200	0.0966	< 0.00005	< 0.001
	WQ3	Surface		6/17/2013	0.00100	< 0.000015	7.10	< 0.0003	0.0000400	< 0.0001	0.101	< 0.00005	< 0.001
	WQ3	Surface	Dup	4/13/2014	<0.001	<0.000015	12.7	0.000900	<0.00002	<0.0001	0.0266	<0.00005	<0.001
	WQ3	Surface		4/13/2014	< 0.001	< 0.000015	12.5	0.000700	< 0.00002	< 0.0001	0.0281	< 0.00005	< 0.001
	WQ3	Surface		7/2/2014	<0.001	<0.000015	11.3	0.000400	<0.00002	0.000300	0.0540	<0.00005	<0.001
	WQ3	Surface		9/24/2014	<0.001	<0.000015	14.7	0.000800	<0.00002	0.000100	0.0409	<0.00005	<0.001
	WQ3	Surface		12/9/2014	<0.001	<0.000015	14.2	0.00100	<0.00002	<0.0001	0.0310	<0.00005	<0.001
L1926080-7	WQ3	Surface		5/11/2017	<0.010	0.00000600	7.54	0.000630	<0.00010	0.000700	0.169	<0.000050	<0.0010
L1962414-1	WQ3	Surface		7/19/2017	<0.010	0.00000700	7.17	0.000920	<0.00010	0.000510	0.129	<0.000050	<0.0010
L1988190-1	WQ3	Surface		9/6/2017	<0.010	0.00000800	11.6	0.00121	<0.00010	0.000640	0.201	<0.000050	<0.0010
L2010514-1	WQ3	Surface		10/18/2017	<0.010	0.00000500	9.80	0.000710	<0.00010	<0.00050	0.164	<0.000050	<0.0010
L2060442-1	WQ3	Surface		2/23/2018	<0.010	<0.0000050	12.7	0.000490	<0.00010	<0.00050	0.0750	<0.000050	<0.0010
L2103632-1	WQ3	Surface		5/29/2018	<0.010	<0.0000050	7.28	0.000580	<0.00010	0.000540	0.141	<0.000050	<0.0010
L2143640-2	WQ3	Surface		8/7/2018	<0.010	0.00000790	12.0	0.000720	<0.00010	<0.00050	0.336	<0.000050	<0.0010
L2204508-2	WQ3	Surface		11/29/2018	<0.010	<0.0000050	9.93	0.000470	<0.00010	<0.00050	0.147	<0.000050	<0.0010
L2232772-1	WQ3	Surface		2/12/2019	<0.010	<0.0000050	12.0	0.000650	<0.00010	<0.00050	0.0840	<0.000050	<0.0010
L2273497-2	WQ3	Surface		5/13/2019	<0.010	<0.0000050	7.28	0.000480	<0.00010	<0.00050	0.128	<0.000050	<0.0010
L2328474-1	WQ3	Surface		8/12/2019	<0.010	<0.0000050	8.50	0.000620	<0.00010	<0.00050	0.183	<0.000050	<0.0010
L2385426-1	WQ3	Surface		11/18/2019	<0.010	<0.0000050	7.08	0.000560	<0.00010	0.000520	0.185	<0.000050	<0.0010
VA20A1830-002	WQ3	Surface		2/12/2020	<0.010	<0.0000050	10.7	0.000590	<0.00010	<0.00020	0.0910	<0.000050	<0.0010
VA20A6574-001	WQ3	Surface		5/14/2020	<0.010	<0.0000050	5.42	0.000440	<0.00010	0.000510	0.118	<0.000050	<0.0010
VA20B2692-002	WQ3	Surface		8/12/2020	<0.010	<0.0000050	11.6	0.000560	<0.00010	<0.00020	0.140	<0.000050	<0.0010
VA20C1166-001	WQ3	Surface		11/17/2020	<0.010	<0.0000050	7.67	0.000580	<0.00010	0.000370	0.145	<0.000050	<0.0010
L2239149-1	WQ30	Surface		2/28/2019	<0.010	<0.0000050	22.3	<0.00010	<0.00010	<0.00050	0.155	<0.000050	<0.0010
L2278768-2	WQ30	Surface		5/22/2019	<0.010	<0.0000050	13.3	0.000150	<0.00010	0.000740	0.117	<0.000050	<0.0010

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Boron (B)-Dissolved	Cadmium (Cd)-Dissolved	Calcium (Ca)-Dissolved	Chromium (Cr)-Dissolved	Cobalt (Co)-Dissolved	Copper (Cu)-Dissolved	Iron (Fe)-Dissolved	Lead (Pb)-Dissolved	Lithium (Li)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2325935-1	WQ30	Surface		8/7/2019	<0.010	<0.0000050	17.9	<0.00010	<0.00010	<0.00050	0.159	<0.000050	<0.0010
L2385426-3	WQ30	Surface		11/18/2019	<0.010	<0.0000050	14.8	<0.00020	<0.00010	0.000640	0.155	<0.000050	<0.0010
VA20A1056-002	WQ30	Surface		1/28/2020	<0.010	<0.0000050	22.2	<0.00010	<0.00010	0.000360	0.170	<0.000050	<0.0010
VA20A1776-002	WQ30	Surface		2/2/2020	<0.010	<0.0000050	20.2	<0.00010	<0.00010	0.000320	0.208	<0.000050	<0.0010
VA20A3580-002	WQ30	Surface		3/17/2020	<0.010	<0.0000050	22.8	<0.00010	<0.00010	0.000340	0.196	<0.000050	<0.0010
VA20A4424-002	WQ30	Surface		4/2/2020	<0.010	<0.0000050	24.3	<0.00010	<0.00010	0.000310	0.249	<0.000050	<0.0010
VA20A6114-002	WQ30	Surface		5/6/2020	<0.010	<0.0000050	14.6	0.000130	<0.00010	0.000580	0.0830	<0.000050	<0.0010
VA20A6503-005	WQ30	Surface	Dup	5/13/2020	<0.010	<0.0000050	15.1	0.000100	<0.00010	0.000590	0.0910	<0.000050	<0.0010
VA20A6503-002	WQ30	Surface		5/13/2020	<0.010	<0.0000050	15.3	0.000120	<0.00010	0.000560	0.0900	<0.000050	<0.0010
VA20A6869-005	WQ30	Surface		5/20/2020	<0.010	<0.0000050	14.2	0.000130	<0.00010	0.000620	0.109	<0.000050	<0.0010
VA20A7367-005	WQ30	Surface		5/28/2020	<0.010	<0.0000050	14.3	0.000120	<0.00010	0.000510	0.106	<0.000050	<0.0010
VA20A7797-002	WQ30	Surface		6/3/2020	<0.010	<0.0000050	16.0	<0.00010	<0.00010	0.000440	0.118	<0.000050	<0.0010
VA20B0021-002	WQ30	Surface		7/7/2020	<0.010	<0.0000050	16.2	0.000150	<0.00010	0.000530	0.150	<0.000050	<0.0010
VA20B2012-002	WQ30	Surface		8/4/2020	<0.010	<0.0000050	19.2	<0.00010	<0.00010	0.000400	0.157	<0.000050	<0.0010
VA20B2542-002	WQ30	Surface		8/11/2020	<0.010	<0.0000050	20.0	<0.00010	<0.00010	0.000380	0.184	<0.000050	<0.0010
VA20B3033-002	WQ30	Surface		8/17/2020	<0.010	<0.0000050	20.0	<0.00010	<0.00010	0.000350	0.171	<0.000050	<0.0010
VA20B3860-006	WQ30	Surface	Dup	8/26/2020	<0.010	<0.0000050	21.6	<0.00010	<0.00010	0.000380	0.220	<0.000050	<0.0010
VA20B3860-002	WQ30	Surface		8/26/2020	<0.010	<0.0000050	21.5	<0.00010	<0.00010	0.000390	0.224	<0.000050	<0.0010
VA20B4443-002	WQ30	Surface		9/2/2020	<0.010	<0.0000050	20.6	0.000120	<0.00010	0.000350	0.206	<0.000050	<0.0010
VA20B7828-002	WQ30	Surface		10/8/2020	<0.010	<0.0000050	21.5	0.000100	<0.00010	0.000340	0.231	<0.000050	<0.0010
VA20B9945-002	WQ30	Surface		11/2/2020	<0.010	<0.0000050	14.0	0.000240	<0.00010	0.000700	0.182	<0.000050	<0.0010
VA20A0688-001	WQ31	Surface		1/21/2020	<0.010	<0.0000050	6.13	0.000200	<0.00010	0.000380	0.0600	<0.000050	<0.0010
VA20A1887-003	WQ31	Surface		2/13/2020	<0.010	<0.0000050	6.40	0.000190	<0.00010	0.000250	0.0450	<0.000050	<0.0010
VA20A3516-005	WQ31	Surface		3/16/2020	<0.010	<0.0000050	7.29	0.000210	<0.00010	0.000210	0.0390	<0.000050	<0.0010
VA20A4369-004	WQ31	Surface		4/1/2020	<0.010	<0.0000050	7.77	0.000200	<0.00010	0.000230	0.0310	<0.000050	<0.0010
VA20A6356-005	WQ31	Surface		5/11/2020	<0.010	0.00000590	3.73	0.000260	<0.00010	0.000620	0.107	<0.000050	<0.0010
VA20A7672-005	WQ31	Surface	Dup	6/2/2020	<0.010	<0.0000050	3.92	0.000200	<0.00010	0.000540	0.0680	<0.000050	<0.0010
VA20A7672-001	WQ31	Surface		6/2/2020	<0.010	<0.0000050	3.90	0.000210	<0.00010	0.000460	0.0690	<0.000050	<0.0010
VA20A9918-004	WQ31	Surface		7/6/2020	<0.010	0.00000530	4.44	0.000200	<0.00010	0.000480	0.0800	<0.000050	<0.0010
VA20B2426-002	WQ31	Surface		8/10/2020	<0.010	<0.0000050	5.63	0.000200	<0.00010	0.000350	0.0680	<0.000050	<0.0010
VA20B4313-004	WQ31	Surface	Dup	9/1/2020	<0.010	<0.0000050	6.64	0.000200	<0.00010	0.000310	0.0560	<0.000050	<0.0010
VA20B4313-002	WQ31	Surface		9/1/2020	<0.010	<0.0000050	6.75	0.000180	<0.00010	0.000350	0.0570	<0.000050	<0.0010
VA20B7624-005	WQ31	Surface		10/6/2020	<0.010	<0.0000050	7.37	0.000200	<0.00010	0.000350	0.0540	<0.000050	<0.0010
VA20C0197-001	WQ31	Surface		11/4/2020	<0.010	0.00000550	4.21	0.000210	<0.00010	0.000600	0.117	<0.000050	<0.0010
	WQ4	Surface		5/17/2011	< 0.001	0.0000620	5.80	< 0.0003	0.0000300	0.000600	0.124	< 0.00005	< 0.001
	WQ4	Surface		5/24/2011	0.00100	0.0000600	5.20	< 0.0003	0.0000300	0.000700	0.114	< 0.00005	< 0.001
	WQ4	Surface		5/30/2011	0.00100	0.0000450	4.40	< 0.0003	0.0000200	0.000500	0.0899	< 0.00005	< 0.001
	WQ4	Surface		6/6/2011	0.00100	0.0000410	4.00	< 0.0003	< 0.00002	0.000800	0.0750	< 0.00005	< 0.001
	WQ4	Surface		6/13/2011	< 0.001	< 0.000015	4.20	< 0.0003	< 0.00002	0.000600	0.0476	< 0.00005	< 0.001
	WQ4	Surface		7/18/2011	< 0.001	0.0000400	5.10	< 0.0003	< 0.00002	0.000500	0.0524	< 0.00005	< 0.001
	WQ4	Surface		8/15/2011	< 0.001	< 0.000015	6.00	< 0.0003	< 0.00002	0.000400	0.0247	< 0.00005	< 0.001
	WQ4	Surface		9/19/2011	< 0.001	0.0000270	7.20	< 0.0003	< 0.00002	0.000300	0.0256	< 0.00005	< 0.001
	WQ4	Surface		10/17/2011	0.00200	0.0000220	6.30	< 0.0003	< 0.00002	< 0.0001	0.0218	< 0.00005	< 0.001
	WQ4	Surface		11/14/2011	0.00100	0.0000200	5.80	< 0.0003	< 0.00002	0.000200	0.0164	< 0.00005	< 0.001

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Boron (B)-Dissolved	Cadmium (Cd)-Dissolved	Calcium (Ca)-Dissolved	Chromium (Cr)-Dissolved	Cobalt (Co)-Dissolved	Copper (Cu)-Dissolved	Iron (Fe)-Dissolved	Lead (Pb)-Dissolved	Lithium (Li)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ4	Surface	Dup	5/15/2012	< 0.001	< 0.000015	5.50	< 0.0003	< 0.00002	0.000400	0.127	0.0000600	< 0.001
	WQ4	Surface		5/15/2012	< 0.001	< 0.000015	5.50	0.000400	0.0000300	0.00310	0.146	0.000230	< 0.001
	WQ4	Surface		5/23/2012	< 0.001	0.0000430	5.20	< 0.0003	< 0.00002	0.000400	0.152	0.0000800	< 0.001
	WQ4	Surface		5/28/2012	< 0.001	0.0000340	4.60	< 0.0003	< 0.00002	0.000400	0.0855	< 0.00005	< 0.001
	WQ4	Surface		6/4/2012	< 0.001	< 0.000015	4.80	< 0.0003	< 0.00002	0.000400	0.0582	< 0.00005	< 0.001
	WQ4	Surface		6/11/2012	< 0.001	0.0000220	5.00	< 0.0003	< 0.00002	0.000200	0.0613	< 0.00005	< 0.001
	WQ4	Surface		6/18/2012	< 0.001	0.0000340	5.00	< 0.0003	< 0.00002	< 0.0001	0.0423	< 0.00005	< 0.001
	WQ4	Surface		7/16/2012	< 0.001	< 0.000015	6.40	< 0.0003	< 0.00002	0.000200	0.0527	< 0.00005	< 0.001
	WQ4	Surface		8/13/2012	0.00200	0.0000160	7.90	< 0.0003	0.0000200	< 0.0001	0.0419	0.0000500	< 0.001
	WQ4	Surface		9/17/2012	< 0.001	< 0.000015	8.00	< 0.0003	< 0.00002	0.000200	0.0353	< 0.00005	< 0.001
	WQ4	Surface		10/16/2012	< 0.001	0.000247	9.80	0.000300	< 0.00002	0.000300	0.237	0.000430	< 0.001
	WQ4	Surface		11/12/2012	< 0.001	0.0000880	10.9	0.000300	0.0000300	< 0.0001	0.0952	0.0000600	< 0.001
	WQ4	Surface		12/10/2012	< 0.001	0.000824	16.7	< 0.0003	< 0.00002	0.000300	0.0987	< 0.00005	< 0.001
	WQ4	Surface		5/14/2013	< 0.001	0.000108	5.00	< 0.0003	0.0000300	0.00110	0.141	0.000130	< 0.001
	WQ4	Surface		5/21/2013	< 0.001	0.000153	5.40	< 0.0003	< 0.00002	0.000500	0.100	0.0000800	< 0.001
	WQ4	Surface		5/28/2013	< 0.001	< 0.000015	7.10	< 0.0003	< 0.00002	0.000800	0.0923	0.0000900	< 0.001
	WQ4	Surface		6/4/2013	0.00200	< 0.000015	6.40	< 0.0003	0.0000200	0.000900	0.0668	< 0.00005	< 0.001
	WQ4	Surface		6/11/2013	< 0.001	0.000113	7.40	< 0.0003	< 0.00002	0.000300	0.0564	< 0.00005	< 0.001
	WQ4	Surface		6/18/2013	0.00100	0.0000580	6.90	< 0.0003	0.0000300	< 0.0001	0.0621	< 0.00005	< 0.001
L1925102-1	WQ4	Surface		5/9/2017	<0.010	0.0000380	5.62	0.000210	<0.00010	0.000540	0.339	<0.000050	<0.0010
L1961670-1	WQ4	Surface		7/18/2017	<0.010	0.0000300	9.29	0.000110	<0.00010	<0.00050	0.0320	<0.000050	<0.0010
L2011329-1	WQ4	Surface		10/19/2017	<0.010	0.0000380	12.4	<0.00010	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L2060101-1	WQ4	Surface		2/22/2018	<0.010	0.0000559	14.6	<0.00010	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L2102737-1	WQ4	Surface		5/28/2018	<0.010	0.0000167	5.03	0.000120	<0.00010	<0.00050	0.0780	<0.000050	<0.0010
L2144658-3	WQ4	Surface		8/8/2018	<0.010	0.0000281	8.27	0.000120	<0.00010	<0.00050	0.0690	<0.000050	<0.0010
L2204086-2	WQ4	Surface		11/28/2018	<0.010	0.0000210	6.22	<0.00010	<0.00010	<0.00050	0.0510	<0.000050	<0.0010
L2233329-1	WQ4	Surface		2/13/2019	<0.010	0.0000200	7.54	<0.00010	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L2275791-2	WQ4	Surface	Dup	5/16/2019	<0.010	0.0000279	6.91	0.000110	<0.00010	<0.00050	0.0690	<0.000050	<0.0010
L2275791-1	WQ4	Surface		5/16/2019	<0.010	0.0000300	6.18	0.000130	<0.00010	<0.00050	0.0680	<0.000050	<0.0010
L2329543-1	WQ4	Surface		8/13/2019	<0.010	0.0000437	10.1	0.000100	<0.00010	<0.00050	0.0370	<0.000050	<0.0010
L2378996-2	WQ4	Surface		11/5/2019	<0.010	0.0000359	9.16	<0.00010	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
VA20A2211-002	WQ4	Surface		2/20/2020	<0.010	0.0000419	15.5	<0.00010	<0.00010	<0.00020	<0.010	<0.000050	<0.0010
VA20A6810-002	WQ4	Surface		5/19/2020	<0.010	0.0000216	5.53	0.000130	<0.00010	0.000440	0.0660	<0.000050	<0.0010
VA20B2212-003	WQ4	Surface		8/6/2020	<0.010	0.0000457	12.7	<0.00010	<0.00010	0.000370	0.0210	<0.000050	<0.0010
VA20C1415-002	WQ4	Surface		11/19/2020	<0.010	0.0000293	8.21	<0.00010	<0.00010	<0.00020	0.0420	<0.000050	<0.0010
	WQ5	Surface	Dup	5/17/2011	< 0.001	< 0.000015	4.50	0.000400	0.0000700	0.00340	0.216	< 0.00005	< 0.001
	WQ5	Surface		5/17/2011	< 0.001	0.0000290	4.60	0.000500	0.0000600	0.000800	0.174	< 0.00005	< 0.001
	WQ5	Surface		5/25/2011	0.00100	< 0.000015	2.70	0.000300	0.0000400	0.000600	0.149	< 0.00005	< 0.001
	WQ5	Surface		5/31/2011	< 0.001	< 0.000015	2.40	0.000400	0.0000400	0.000500	0.102	< 0.00005	< 0.001
	WQ5	Surface		6/7/2011	< 0.001	< 0.000015	2.50	< 0.0003	0.0000400	0.000600	0.0985	< 0.00005	< 0.001
	WQ5	Surface		6/14/2011	< 0.001	< 0.000015	2.60	< 0.0003	0.0000400	0.000600	0.0863	< 0.00005	< 0.001
	WQ5	Surface		7/19/2011	< 0.001	< 0.000015	3.90	< 0.0003	0.0000400	0.000500	0.114	0.0000600	< 0.001
	WQ5	Surface		8/16/2011	< 0.001	< 0.000015	4.50	< 0.0003	0.0000300	0.000400	0.0974	< 0.00005	< 0.001
	WQ5	Surface		9/20/2011	< 0.001	< 0.000015	7.70	< 0.0003	< 0.00002	0.000300	0.108	< 0.00005	< 0.001

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Boron (B)-Dissolved	Cadmium (Cd)-Dissolved	Calcium (Ca)-Dissolved	Chromium (Cr)-Dissolved	Cobalt (Co)-Dissolved	Copper (Cu)-Dissolved	Iron (Fe)-Dissolved	Lead (Pb)-Dissolved	Lithium (Li)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ5	Surface		10/18/2011	0.00200	< 0.000015	6.10	< 0.0003	0.0000300	< 0.0001	0.0921	< 0.00005	< 0.001
	WQ5	Surface		11/15/2011	0.00100	< 0.000015	6.30	< 0.0003	0.0000300	0.000200	0.0983	< 0.00005	< 0.001
	WQ5	Surface		12/12/2011	0.00200	< 0.000015	8.50	< 0.0003	0.0000300	0.000500	0.104	< 0.00005	< 0.001
	WQ5	Surface		5/14/2012	< 0.001	< 0.000015	3.10	< 0.0003	0.0000500	< 0.0001	0.161	< 0.00005	< 0.001
	WQ5	Surface		5/22/2012	< 0.001	< 0.000015	2.80	< 0.0003	0.0000300	0.000300	0.125	< 0.00005	< 0.001
	WQ5	Surface		5/29/2012	< 0.001	< 0.000015	2.60	< 0.0003	< 0.00002	0.000400	0.0993	< 0.00005	< 0.001
	WQ5	Surface		6/5/2012	< 0.001	< 0.000015	2.90	0.000400	0.0000300	0.000400	0.0816	< 0.00005	< 0.001
	WQ5	Surface		6/12/2012	< 0.001	< 0.000015	3.10	< 0.0003	0.0000300	0.000200	0.0877	< 0.00005	< 0.001
	WQ5	Surface		6/19/2012	< 0.001	< 0.000015	3.40	0.000500	< 0.00002	< 0.0001	0.0789	< 0.00005	< 0.001
	WQ5	Surface		7/17/2012	< 0.001	< 0.000015	4.80	0.000500	< 0.00002	0.000100	0.0896	< 0.00005	< 0.001
	WQ5	Surface		8/14/2012	0.00200	< 0.000015	5.70	< 0.0003	< 0.00002	< 0.0001	0.0895	< 0.00005	< 0.001
	WQ5	Surface		9/18/2012	< 0.001	< 0.000015	7.10	< 0.0003	< 0.00002	0.000100	0.102	< 0.00005	< 0.001
	WQ5	Surface		10/15/2012	< 0.001	< 0.000015	8.60	< 0.0003	< 0.00002	< 0.0001	0.105	< 0.00005	< 0.001
	WQ5	Surface		11/13/2012	< 0.001	0.0000210	7.20	0.000300	0.0000300	< 0.0001	0.100	< 0.00005	< 0.001
	WQ5	Surface		1/13/2013	< 0.001	0.0000570	11.7	< 0.0003	0.0000500	0.000500	0.179	< 0.00005	< 0.001
	WQ5	Surface		4/15/2013	0.00500	< 0.000015	5.90	< 0.0003	0.0000500	0.000700	0.189	< 0.00005	< 0.001
	WQ5	Surface		5/13/2013	< 0.001	< 0.000015	2.70	< 0.0003	0.0000400	0.000600	0.118	< 0.00005	< 0.001
	WQ5	Surface		5/22/2013	< 0.001	< 0.000015	2.90	< 0.0003	0.0000300	0.000200	0.109	< 0.00005	< 0.001
	WQ5	Surface		5/27/2013	< 0.001	< 0.000015	3.70	< 0.0003	< 0.00002	0.000600	0.107	< 0.00005	< 0.001
	WQ5	Surface		6/6/2013	0.00100	< 0.000015	3.40	< 0.0003	0.0000400	0.000400	0.0993	< 0.00005	< 0.001
	WQ5	Surface		6/10/2013	< 0.001	< 0.000015	3.70	< 0.0003	0.0000300	0.000300	0.0969	< 0.00005	< 0.001
	WQ5	Surface		6/17/2013	< 0.001	< 0.000015	3.50	< 0.0003	0.0000400	< 0.0001	0.103	0.0000700	< 0.001
	WQ5	Surface		4/13/2014	< 0.001	< 0.000015	7.60	0.000400	0.0000300	0.000500	0.131	< 0.00005	< 0.001
	WQ5	Surface		7/2/2014	< 0.001	< 0.000015	5.20	< 0.0003	< 0.00002	0.000400	0.834	< 0.00005	< 0.001
	WQ5	Surface		9/24/2014	< 0.001	< 0.000015	13.9	< 0.0003	0.0000300	0.000300	0.0199	< 0.00005	< 0.001
	WQ5	Surface		12/8/2014	< 0.001	< 0.000015	10.2	< 0.0003	0.0000200	0.000300	0.121	< 0.00005	< 0.001
L1812856-8	WQ5	Surface		8/10/2016	< 0.010	< 0.0000050	5.05	0.000270	< 0.00010	< 0.00050	0.119	< 0.000050	< 0.0010
L1815654-8	WQ5	Surface	Dup	8/16/2016	< 0.010	< 0.0000050	5.86	0.000130	< 0.00010	< 0.00050	0.102	< 0.000050	< 0.0010
L1815654-6	WQ5	Surface		8/16/2016	< 0.010	< 0.0000050	5.93	0.000140	< 0.00010	< 0.00050	0.102	< 0.000050	< 0.0010
L1819041-9	WQ5	Surface		8/23/2016	< 0.010	< 0.0000050	6.34	0.000180	< 0.00010	< 0.00050	0.0920	< 0.000050	< 0.0010
L1823224-1	WQ5	Surface	Dup	8/31/2016	< 0.010	0.00000800	5.29	0.000160	< 0.00010	< 0.00050	0.220	< 0.000050	< 0.0010
L1823224-8	WQ5	Surface		8/31/2016	< 0.010	< 0.0000050	5.28	0.000150	< 0.00010	< 0.00050	0.206	< 0.000050	< 0.0010
L1826303-4	WQ5	Surface		9/7/2016	< 0.010	< 0.0000050	4.63	0.000140	< 0.00010	< 0.00050	0.164	< 0.000050	< 0.0010
L1925486-4	WQ5	Surface		5/10/2017	< 0.010	0.00000800	5.12	0.000320	< 0.00010	0.000650	0.218	< 0.000050	< 0.0010
L1962414-2	WQ5	Surface		7/19/2017	< 0.010	< 0.0000050	5.80	0.000190	< 0.00010	< 0.00050	0.0810	< 0.000050	< 0.0010
L1988190-2	WQ5	Surface		9/6/2017	< 0.010	0.0000150	8.21	0.000510	< 0.00010	0.000500	0.363	< 0.000050	< 0.0010
L2010514-2	WQ5	Surface		10/18/2017	< 0.010	0.00000700	4.25	0.000150	< 0.00010	< 0.00050	0.146	< 0.000050	< 0.0010
L2060442-2	WQ5	Surface		2/23/2018	< 0.010	< 0.0000050	10.0	0.000320	< 0.00010	< 0.00050	0.183	< 0.000050	< 0.0010
L2103632-2	WQ5	Surface		5/29/2018	< 0.010	0.0000153	5.41	0.000440	< 0.00010	0.000580	0.136	< 0.000050	< 0.0010
L2143640-1	WQ5	Surface		8/7/2018	< 0.010	0.0000123	9.65	0.000500	< 0.00010	< 0.00050	0.308	< 0.000050	< 0.0010
L2204508-1	WQ5	Surface		11/29/2018	< 0.010	0.00000530	7.15	0.000260	< 0.00010	< 0.00050	0.140	< 0.000050	< 0.0010
L2232772-2	WQ5	Surface		2/12/2019	< 0.010	0.00000670	9.73	0.000360	< 0.00010	< 0.00050	0.112	< 0.000050	< 0.0010
L2273497-3	WQ5	Surface		5/13/2019	< 0.010	0.0000112	4.04	0.000260	< 0.00010	0.000590	0.119	< 0.000050	< 0.0010
L2328474-2	WQ5	Surface		8/12/2019	< 0.010	0.0000152	5.35	0.000360	< 0.00010	< 0.00050	0.187	< 0.000050	< 0.0010

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Boron (B)-Dissolved	Cadmium (Cd)-Dissolved	Calcium (Ca)-Dissolved	Chromium (Cr)-Dissolved	Cobalt (Co)-Dissolved	Copper (Cu)-Dissolved	Iron (Fe)-Dissolved	Lead (Pb)-Dissolved	Lithium (Li)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2385426-2	WQ5	Surface		11/18/2019	<0.010	0.0000136	4.10	<0.00040	<0.00010	0.000590	0.197	<0.000050	<0.0010
VA20A1830-001	WQ5	Surface		2/12/2020	<0.010	<0.0000050	8.74	0.000360	<0.00010	0.000210	0.130	<0.000050	<0.0010
VA20A6574-002	WQ5	Surface		5/14/2020	<0.010	0.0000137	3.38	0.000310	<0.00010	0.000530	0.130	<0.000050	<0.0010
VA20B2692-001	WQ5	Surface		8/12/2020	<0.010	0.00000870	10.1	0.000340	<0.00010	0.000210	0.165	<0.000050	<0.0010
VA20C1166-002	WQ5	Surface		11/17/2020	<0.010	0.0000136	6.36	0.000430	<0.00010	0.000370	0.157	<0.000050	<0.0010
	WQ6	Surface		5/17/2011	< 0.001	0.0000280	4.90	0.000400	0.0000500	0.000600	0.159	0.0000900	< 0.001
	WQ6	Surface		5/24/2011	0.00100	0.0000180	3.50	< 0.0003	0.0000400	0.000600	0.114	0.0000500	< 0.001
	WQ6	Surface		5/30/2011	< 0.001	< 0.000015	3.00	< 0.0003	0.0000300	0.000600	0.0842	< 0.00005	< 0.001
	WQ6	Surface		6/6/2011	< 0.001	< 0.000015	3.10	< 0.0003	< 0.00002	0.000500	0.0624	< 0.00005	< 0.001
	WQ6	Surface		6/13/2011	< 0.001	< 0.000015	3.30	< 0.0003	0.0000200	0.000500	0.0544	< 0.00005	< 0.001
	WQ6	Surface		7/18/2011	< 0.001	< 0.000015	4.10	< 0.0003	0.0000200	0.000500	0.0694	< 0.00005	< 0.001
	WQ6	Surface	Dup	8/15/2011	< 0.001	< 0.000015	4.50	< 0.0003	0.0000200	0.000200	0.0652	< 0.00005	< 0.001
	WQ6	Surface		8/15/2011	< 0.001	< 0.000015	4.50	< 0.0003	0.0000300	0.000300	0.0669	< 0.00005	< 0.001
	WQ6	Surface		9/19/2011	< 0.001	< 0.000015	5.80	< 0.0003	< 0.00002	0.000200	0.0676	< 0.00005	< 0.001
	WQ6	Surface		10/17/2011	0.00100	< 0.000015	5.30	< 0.0003	< 0.00002	< 0.0001	0.0633	< 0.00005	< 0.001
	WQ6	Surface		11/14/2011	0.00100	< 0.000015	5.70	< 0.0003	0.0000200	0.000200	0.0609	< 0.00005	< 0.001
	WQ6	Surface		4/17/2012	< 0.001	0.0000270	7.00	< 0.0003	0.0000200	0.000400	0.102	< 0.00005	< 0.001
	WQ6	Surface		5/15/2012	< 0.001	< 0.000015	3.90	< 0.0003	0.0000200	0.000400	0.116	< 0.00005	< 0.001
	WQ6	Surface		5/23/2012	< 0.001	< 0.000015	3.80	< 0.0003	< 0.00002	0.000300	0.110	< 0.00005	< 0.001
	WQ6	Surface		5/28/2012	< 0.001	< 0.000015	3.60	< 0.0003	< 0.00002	0.000300	0.0808	< 0.00005	< 0.001
	WQ6	Surface		6/4/2012	< 0.001	< 0.000015	3.60	< 0.0003	< 0.00002	0.000300	0.0536	< 0.00005	< 0.001
	WQ6	Surface		6/11/2012	< 0.001	< 0.000015	3.40	< 0.0003	< 0.00002	< 0.0001	0.0541	< 0.00005	< 0.001
	WQ6	Surface		6/18/2012	< 0.001	< 0.000015	3.60	< 0.0003	< 0.00002	< 0.0001	0.0464	< 0.00005	< 0.001
	WQ6	Surface		7/16/2012	< 0.001	< 0.000015	4.60	0.000300	< 0.00002	< 0.0001	0.0666	< 0.00005	< 0.001
	WQ6	Surface		8/13/2012	0.00100	< 0.000015	5.60	< 0.0003	< 0.00002	< 0.0001	0.0899	0.000240	< 0.001
	WQ6	Surface		9/17/2012	< 0.001	< 0.000015	6.40	< 0.0003	< 0.00002	< 0.0001	0.0784	< 0.00005	< 0.001
	WQ6	Surface		10/16/2012	< 0.001	< 0.000015	6.40	< 0.0003	< 0.00002	< 0.0001	0.0815	< 0.00005	< 0.001
	WQ6	Surface		11/12/2012	< 0.001	< 0.000015	6.40	0.000400	0.0000200	< 0.0001	0.0682	< 0.00005	< 0.001
	WQ6	Surface		12/10/2012	< 0.001	< 0.000015	7.60	< 0.0003	< 0.00002	< 0.0001	0.0516	< 0.00005	< 0.001
	WQ6	Surface		1/15/2013	< 0.001	< 0.000015	7.00	< 0.0003	0.0000200	0.000200	0.0738	< 0.00005	< 0.001
	WQ6	Surface		2/13/2013	< 0.001	< 0.000015	7.00	< 0.0003	< 0.00002	0.000200	0.0574	< 0.00005	< 0.001
	WQ6	Surface		3/12/2013	< 0.001	< 0.000015	8.10	< 0.0003	< 0.00002	0.000200	0.0604	< 0.00005	< 0.001
	WQ6	Surface		4/16/2013	< 0.001	< 0.000015	5.60	< 0.0003	0.0000200	0.000400	0.0868	< 0.00005	< 0.001
	WQ6	Surface		5/14/2013	< 0.001	< 0.000015	3.60	< 0.0003	0.0000300	0.000600	0.0963	< 0.00005	< 0.001
	WQ6	Surface		5/21/2013	< 0.001	< 0.000015	3.60	< 0.0003	< 0.00002	0.000100	0.0661	< 0.00005	< 0.001
	WQ6	Surface		5/28/2013	< 0.001	< 0.000015	4.30	< 0.0003	< 0.00002	0.000500	0.0751	< 0.00005	< 0.001
	WQ6	Surface		6/4/2013	0.00200	< 0.000015	4.00	< 0.0003	0.0000300	0.000500	0.0648	0.0000500	< 0.001
	WQ6	Surface		6/11/2013	< 0.001	< 0.000015	4.20	< 0.0003	< 0.00002	0.000200	0.0553	< 0.00005	< 0.001
	WQ6	Surface		6/18/2013	< 0.001	0.0000170	4.10	< 0.0003	0.0000600	< 0.0001	0.0673	< 0.00005	< 0.001
	WQ7	Surface		4/19/2011	< 0.001	< 0.000015	16.3	< 0.0003	0.0000400	0.000100	0.132	< 0.00005	< 0.001
	WQ7	Surface		5/17/2011	< 0.001	0.0000220	5.70	0.000400	0.0000800	0.000700	0.193	< 0.00005	< 0.001
	WQ7	Surface		5/24/2011	0.00100	0.0000160	5.30	0.000400	0.0000700	0.000900	0.169	< 0.00005	< 0.001
	WQ7	Surface		5/30/2011	0.00100	0.0000190	4.90	0.000400	0.0000700	0.000800	0.148	0.000100	< 0.001
	WQ7	Surface		6/6/2011	< 0.001	0.0000220	4.20	< 0.0003	0.0000600	0.000700	0.117	< 0.00005	< 0.001

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Boron (B)-Dissolved	Cadmium (Cd)-Dissolved	Calcium (Ca)-Dissolved	Chromium (Cr)-Dissolved	Cobalt (Co)-Dissolved	Copper (Cu)-Dissolved	Iron (Fe)-Dissolved	Lead (Pb)-Dissolved	Lithium (Li)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ7	Surface		6/13/2011	< 0.001	< 0.000015	4.80	< 0.0003	0.0000400	0.000800	0.0903	< 0.00005	< 0.001
	WQ7	Surface		7/18/2011	0.00100	< 0.000015	7.40	< 0.0003	0.0000400	0.000600	0.108	< 0.00005	< 0.001
	WQ7	Surface		8/15/2011	< 0.001	< 0.000015	9.80	< 0.0003	0.0000300	0.000400	0.111	< 0.00005	< 0.001
	WQ7	Surface	Dup	9/19/2011	< 0.001	< 0.000015	13.8	< 0.0003	< 0.00002	0.000300	0.127	< 0.00005	< 0.001
	WQ7	Surface		9/19/2011	< 0.001	0.0000200	13.8	< 0.0003	0.0000700	0.000400	0.128	< 0.00005	< 0.001
	WQ7	Surface	Dup	10/17/2011	< 0.001	< 0.000015	11.6	< 0.0003	0.0000300	< 0.0001	0.102	< 0.00005	< 0.001
	WQ7	Surface		10/17/2011	0.00100	< 0.000015	11.5	< 0.0003	0.0000300	< 0.0001	0.100	0.0000900	< 0.001
	WQ7	Surface		11/14/2011	0.00100	< 0.000015	12.3	< 0.0003	0.0000400	0.000200	0.142	< 0.00005	< 0.001
	WQ7	Surface	Dup	12/13/2011	< 0.001	0.0000170	14.5	< 0.0003	0.0000300	0.000300	0.0871	< 0.00005	< 0.001
	WQ7	Surface		12/13/2011	< 0.001	< 0.000015	14.7	< 0.0003	0.0000300	0.000300	0.0851	< 0.00005	< 0.001
	WQ7	Surface		1/12/2012	< 0.001	< 0.000015	15.0	< 0.0003	0.0000300	< 0.0001	0.0542	< 0.00005	< 0.001
	WQ7	Surface	Dup	2/13/2012	< 0.001	< 0.000015	16.2	< 0.0003	0.0000200	0.000200	0.0507	< 0.00005	< 0.001
	WQ7	Surface		2/13/2012	< 0.001	< 0.000015	16.5	< 0.0003	0.0000300	0.000300	0.0472	< 0.00005	< 0.001
	WQ7	Surface		3/12/2012	< 0.001	< 0.000015	15.7	< 0.0003	0.0000200	< 0.0001	0.0494	< 0.00005	< 0.001
	WQ7	Surface	Dup	4/17/2012	< 0.001	0.0000920	15.0	< 0.0003	0.0000400	0.000300	0.129	0.000140	< 0.001
	WQ7	Surface		4/17/2012	< 0.001	< 0.000015	14.7	< 0.0003	0.0000400	0.000300	0.123	< 0.00005	< 0.001
	WQ7	Surface		5/15/2012	< 0.001	< 0.000015	5.50	< 0.0003	0.0000500	0.00110	0.139	< 0.00005	< 0.001
	WQ7	Surface		5/23/2012	< 0.001	< 0.000015	5.70	< 0.0003	< 0.00002	0.000400	0.140	< 0.00005	< 0.001
	WQ7	Surface	Dup	5/28/2012	< 0.001	0.0000180	4.80	< 0.0003	< 0.00002	0.000400	0.102	< 0.00005	< 0.001
	WQ7	Surface		5/28/2012	< 0.001	0.0000250	4.90	< 0.0003	0.0000300	0.000400	0.119	< 0.00005	< 0.001
	WQ7	Surface		6/4/2012	< 0.001	< 0.000015	5.10	< 0.0003	0.0000300	0.000400	0.0891	< 0.00005	< 0.001
	WQ7	Surface		6/11/2012	< 0.001	< 0.000015	4.90	< 0.0003	0.0000300	0.000200	0.0956	< 0.00005	< 0.001
	WQ7	Surface		6/18/2012	0.0120	0.000122	23.5	0.000700	0.000100	0.0363	0.0777	0.000940	< 0.001
	WQ7	Surface	Dup	7/16/2012	< 0.001	< 0.000015	9.20	< 0.0003	< 0.00002	0.000100	0.0718	< 0.00005	< 0.001
	WQ7	Surface		7/16/2012	< 0.001	< 0.000015	9.30	< 0.0003	< 0.00002	< 0.0001	0.0727	< 0.00005	< 0.001
	WQ7	Surface	Dup	8/13/2012	0.00100	< 0.000015	11.6	< 0.0003	0.0000400	< 0.0001	0.148	< 0.00005	< 0.001
	WQ7	Surface		8/13/2012	0.00200	< 0.000015	11.7	< 0.0003	0.0000300	< 0.0001	0.145	< 0.00005	< 0.001
	WQ7	Surface		9/17/2012	< 0.001	< 0.000015	15.1	< 0.0003	< 0.00002	< 0.0001	0.136	< 0.00005	< 0.001
	WQ7	Surface		10/16/2012	< 0.001	< 0.000015	15.9	< 0.0003	0.0000200	< 0.0001	0.126	< 0.00005	< 0.001
	WQ7	Surface	Dup	11/12/2012	< 0.001	< 0.000015	14.6	< 0.0003	0.0000400	< 0.0001	0.0793	< 0.00005	< 0.001
	WQ7	Surface		11/12/2012	< 0.001	< 0.000015	14.4	0.000300	0.0000400	< 0.0001	0.0756	< 0.00005	< 0.001
	WQ7	Surface		12/10/2012	< 0.001	< 0.000015	17.3	< 0.0003	0.0000200	< 0.0001	0.0709	< 0.00005	< 0.001
	WQ7	Surface	Dup	1/15/2013	< 0.001	0.0000150	18.6	< 0.0003	0.0000300	0.000300	0.0627	< 0.00005	< 0.001
	WQ7	Surface		1/15/2013	< 0.001	0.0000180	18.3	< 0.0003	0.0000400	0.000300	0.0644	< 0.00005	< 0.001
	WQ7	Surface	Dup	2/13/2013	< 0.001	< 0.000015	17.5	< 0.0003	< 0.00002	0.000500	0.0714	< 0.00005	< 0.001
	WQ7	Surface		2/13/2013	0.00100	0.0000210	17.1	< 0.0003	0.0000200	0.00110	0.0722	< 0.00005	< 0.001
	WQ7	Surface		3/12/2013	< 0.001	< 0.000015	19.7	< 0.0003	0.0000300	0.000300	0.0645	< 0.00005	< 0.001
	WQ7	Surface	Dup	4/16/2013	< 0.001	< 0.000015	14.5	< 0.0003	0.0000400	0.000300	0.122	< 0.00005	< 0.001
	WQ7	Surface		4/16/2013	< 0.001	< 0.000015	14.5	< 0.0003	0.0000400	0.000300	0.120	< 0.00005	< 0.001
	WQ7	Surface		5/14/2013	< 0.001	< 0.000015	4.80	< 0.0003	0.0000400	0.000600	0.127	< 0.00005	< 0.001
	WQ7	Surface		5/21/2013	< 0.001	< 0.000015	5.30	< 0.0003	0.0000300	0.000200	0.0933	< 0.00005	< 0.001
	WQ7	Surface		5/28/2013	< 0.001	< 0.000015	6.30	< 0.0003	< 0.00002	0.000400	0.0925	< 0.00005	< 0.001
	WQ7	Surface	Dup	6/4/2013	0.00100	< 0.000015	6.20	< 0.0003	0.0000400	0.000700	0.0937	< 0.00005	< 0.001
	WQ7	Surface		6/4/2013	0.00200	< 0.000015	6.20	< 0.0003	0.0000900	0.000700	0.0944	< 0.00005	< 0.001

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Boron (B)-Dissolved	Cadmium (Cd)-Dissolved	Calcium (Ca)-Dissolved	Chromium (Cr)-Dissolved	Cobalt (Co)-Dissolved	Copper (Cu)-Dissolved	Iron (Fe)-Dissolved	Lead (Pb)-Dissolved	Lithium (Li)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ7	Surface		6/11/2013	< 0.001	< 0.000015	7.20	< 0.0003	0.0000300	0.000200	0.0746	< 0.00005	< 0.001
	WQ7	Surface	Dup	6/18/2013	< 0.001	< 0.000015	7.30	< 0.0003	0.0000400	< 0.0001	0.0995	< 0.00005	< 0.001
	WQ7	Surface		6/18/2013	< 0.001	< 0.000015	7.30	< 0.0003	0.0000400	< 0.0001	0.0981	< 0.00005	< 0.001
	WQ7	Surface		4/13/2014	< 0.001	< 0.000015	14.0	< 0.0003	0.0000300	0.000800	0.0969	< 0.00005	< 0.001
	WQ7	Surface		7/2/2014	< 0.001	< 0.000015	11.1	< 0.0003	< 0.00002	0.000400	0.745	< 0.00005	< 0.001
	WQ7	Surface		9/24/2014	< 0.001	< 0.000015	18.8	< 0.0003	0.0000200	0.000300	0.151	< 0.00005	< 0.001
	WQ7	Surface		12/9/2014	< 0.001	< 0.000015	18.0	< 0.0003	0.0000300	0.000200	0.0720	< 0.00005	< 0.001
L1812856-9	WQ7	Surface		8/10/2016	< 0.010	< 0.0000050	10.2	0.000140	< 0.00010	< 0.00050	0.0730	< 0.000050	< 0.0010
L1815654-9	WQ7	Surface		8/16/2016	< 0.010	< 0.0000050	11.7	< 0.00010	< 0.00010	< 0.00050	0.0680	< 0.000050	< 0.0010
L1819041-2	WQ7	Surface		8/23/2016	< 0.010	< 0.0000050	11.7	0.000180	< 0.00010	< 0.00050	0.0750	< 0.000050	< 0.0010
L1823224-2	WQ7	Surface		8/31/2016	< 0.010	0.00000700	12.1	0.000180	< 0.00010	0.00110	0.0760	< 0.000050	< 0.0010
L1826303-7	WQ7	Surface		9/7/2016	< 0.010	< 0.0000050	11.3	0.000130	< 0.00010	< 0.00050	0.0790	< 0.000050	< 0.0010
L1913531-3	WQ7	Surface		4/12/2017	< 0.010	< 0.0000050	15.6	0.000110	< 0.00010	< 0.00050	0.0650	< 0.000050	< 0.0010
L1926080-8	WQ7	Surface	Dup	5/11/2017	< 0.010	< 0.0000050	6.41	0.000230	< 0.00010	0.000650	0.153	< 0.000050	< 0.0010
L1926080-4	WQ7	Surface		5/11/2017	< 0.010	0.00000600	6.49	0.000270	< 0.00010	0.000730	0.152	< 0.000050	< 0.0010
L1939712-7	WQ7	Surface		6/7/2017	< 0.010	< 0.0000050	5.75	0.000210	< 0.00010	0.000570	0.0820	< 0.000050	< 0.0010
L1962414-3	WQ7	Surface		7/19/2017	< 0.010	< 0.0000050	11.2	0.000120	< 0.00010	< 0.00050	0.108	< 0.000050	< 0.0010
L1984944-5	WQ7	Surface		8/30/2017	< 0.010	< 0.0000050	15.0	< 0.00010	< 0.00010	< 0.00050	0.167	< 0.000050	< 0.0010
L1988832-4	WQ7	Surface		9/9/2017	< 0.010	< 0.0000050	15.5	0.000110	< 0.00010	< 0.00050	0.176	< 0.000050	< 0.0010
L2009845-2	WQ7	Surface		10/17/2017	< 0.010	0.0000150	10.9	0.000130	< 0.00010	< 0.00050	0.115	< 0.000050	< 0.0010
L2020333-6	WQ7	Surface	Dup	11/7/2017	< 0.010	< 0.0000050	9.65	0.000180	< 0.00010	< 0.00050	0.101	< 0.000050	< 0.0010
L2020333-2	WQ7	Surface		11/7/2017	< 0.010	0.00000900	9.64	0.000180	< 0.00010	0.000510	0.102	< 0.000050	< 0.0010
L2034610-2	WQ7	Surface		12/11/2017	< 0.010	< 0.0000050	10.9	0.000120	< 0.00010	< 0.00050	0.0870	< 0.000050	< 0.0010
L2049678-1	WQ7	Surface		1/24/2018	< 0.010	< 0.0000050	13.7	0.000200	< 0.00010	< 0.00050	0.0840	< 0.000050	< 0.0010
L2062480-2	WQ7	Surface		2/28/2018	< 0.010	< 0.0000050	15.0	0.000140	< 0.00010	< 0.00050	0.0750	< 0.000050	< 0.0010
L2074294-1	WQ7	Surface		3/28/2018	< 0.010	< 0.0000050	13.8	0.000180	< 0.00010	< 0.00050	0.0850	< 0.000050	< 0.0010
L2081503-1	WQ7	Surface		4/17/2018	< 0.010	< 0.0000050	16.0	< 0.00010	< 0.00010	< 0.00050	0.104	< 0.000050	< 0.0010
L2097084-8	WQ7	Surface	Dup	5/16/2018	< 0.010	0.00000660	3.77	0.000250	< 0.00010	0.000660	0.112	< 0.000050	< 0.0010
L2097084-1	WQ7	Surface		5/16/2018	< 0.010	0.00000720	3.69	0.000260	< 0.00010	0.000660	0.108	< 0.000050	< 0.0010
L2104479-1	WQ7	Surface		5/30/2018	< 0.010	0.00000990	6.07	0.000160	< 0.00010	0.000570	0.0740	< 0.000050	< 0.0010
L2132128-7	WQ7	Surface	Dup	7/17/2018	< 0.010	0.0000123	11.5	0.000130	< 0.00010	0.000710	0.0520	< 0.000050	< 0.0010
L2132128-1	WQ7	Surface		7/17/2018	< 0.010	< 0.0000050	11.2	0.000170	< 0.00010	< 0.00050	0.0510	< 0.000050	< 0.0010
L2144782-2	WQ7	Surface		8/9/2018	< 0.010	< 0.0000050	12.8	0.000140	< 0.00010	< 0.00050	0.0810	< 0.000050	< 0.0010
L2164448-4	WQ7	Surface	Dup	9/12/2018	< 0.010	< 0.0000050	15.4	0.000130	< 0.00010	< 0.00050	0.0910	< 0.000050	< 0.0010
L2164448-3	WQ7	Surface		9/12/2018	< 0.010	< 0.0000050	15.1	0.000100	< 0.00010	< 0.00050	0.0900	< 0.000050	< 0.0010
L2187638-4	WQ7	Surface	Dup	10/24/2018	< 0.010	< 0.0000050	12.5	0.000140	< 0.00010	< 0.00050	0.0790	< 0.000050	< 0.0010
L2187638-3	WQ7	Surface		10/24/2018	< 0.010	< 0.0000050	11.9	0.000130	< 0.00010	< 0.00050	0.0770	< 0.000050	< 0.0010
L2203408-2	WQ7	Surface		11/27/2018	< 0.010	< 0.0000050	9.23	0.000160	< 0.00010	< 0.00050	0.0710	< 0.000050	< 0.0010
L2213684-1	WQ7	Surface		12/19/2018	< 0.010	< 0.0000050	11.7	0.000180	< 0.00010	< 0.00050	0.0640	< 0.000050	< 0.0010
L2227101-6	WQ7	Surface	Dup	1/29/2019	< 0.010	< 0.0000050	13.6	0.000110	< 0.00010	< 0.00050	0.0790	< 0.000050	< 0.0010
L2227101-1	WQ7	Surface		1/29/2019	< 0.010	< 0.0000050	13.8	0.000140	< 0.00010	< 0.00050	0.0790	< 0.000050	< 0.0010
L2232050-4	WQ7	Surface		2/11/2019	< 0.010	< 0.0000050	14.1	0.000140	< 0.00010	< 0.00050	0.0540	< 0.000050	< 0.0010
L2245144-4	WQ7	Surface		3/14/2019	< 0.010	0.00000540	15.8	0.000170	< 0.00010	< 0.00050	0.0450	< 0.000050	< 0.0010
L2256054-1	WQ7	Surface		4/9/2019	< 0.010	< 0.0000050	13.4	0.000150	< 0.00010	< 0.00050	0.0810	< 0.000050	< 0.0010

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Boron (B)-Dissolved	Cadmium (Cd)-Dissolved	Calcium (Ca)-Dissolved	Chromium (Cr)-Dissolved	Cobalt (Co)-Dissolved	Copper (Cu)-Dissolved	Iron (Fe)-Dissolved	Lead (Pb)-Dissolved	Lithium (Li)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2269368-6	WQ7	Surface	Dup	5/4/2019	<0.010	0.00000620	7.14	0.000220	<0.00010	0.000660	0.138	<0.000050	<0.0010
L2269368-1	WQ7	Surface		5/4/2019	<0.010	<0.0000050	7.14	0.000230	<0.00010	0.000620	0.136	<0.000050	<0.0010
L2277964-4	WQ7	Surface		5/21/2019	<0.010	0.00000880	4.70	0.000280	<0.00010	0.000780	0.149	<0.000050	<0.0010
L2282191-2	WQ7	Surface		5/28/2019	<0.010	0.00000740	6.93	0.000220	<0.00010	0.000610	0.0860	<0.000050	<0.0010
L2282975-1	WQ7	Surface		5/29/2019	<0.010	<0.0000050	7.02	0.000220	<0.00010	0.000640	0.0770	<0.000050	<0.0010
L2286702-5	WQ7	Surface	Dup	6/4/2019	<0.010	<0.0000050	7.32	0.000210	<0.00010	0.000530	0.0710	<0.000050	<0.0010
L2286702-1	WQ7	Surface		6/4/2019	<0.010	<0.0000050	7.37	0.000240	<0.00010	0.000550	0.0720	<0.000050	<0.0010
L2313851-2	WQ7	Surface		7/18/2019	<0.010	<0.0000050	7.37	0.000250	<0.00010	0.000560	0.0990	<0.000050	<0.0010
L2328474-3	WQ7	Surface		8/12/2019	<0.010	<0.0000050	8.39	0.000200	<0.00010	<0.00050	0.106	<0.000050	<0.0010
L2349445-1	WQ7	Surface		9/16/2019	<0.010	<0.0000050	11.3	0.000150	<0.00010	<0.00050	0.104	<0.000050	<0.0010
L2371052-1	WQ7	Surface		10/22/2019	<0.010	0.00000550	9.04	0.000170	<0.00010	<0.00050	0.104	<0.000050	<0.0010
L2388381-1	WQ7	Surface		11/25/2019	<0.010	<0.0000050	7.76	0.000210	<0.00010	<0.00050	0.109	<0.000050	<0.0010
VA19A0791-001	WQ7	Surface		12/17/2019	<0.010	<0.0000050	9.97	0.000220	<0.00010	0.000380	0.0820	<0.000050	<0.0010
VA20A0960-001	WQ7	Surface		1/27/2020	<0.010	<0.0000050	12.7	0.000160	<0.00010	0.000320	0.0720	<0.000050	<0.0010
VA20A2126-004	WQ7	Surface		2/19/2020	<0.010	<0.0000050	12.7	0.000140	<0.00010	0.000250	0.0720	<0.000050	<0.0010
VA20A3691-002	WQ7	Surface		3/18/2020	<0.010	<0.0000050	14.3	0.000150	<0.00010	<0.00020	0.0610	<0.000050	<0.0010
VA20A4555-002	WQ7	Surface		4/7/2020	<0.010	<0.0000050	17.2	0.000140	<0.00010	0.000220	0.0570	<0.000050	<0.0010
VA20A6218-002	WQ7	Surface		5/7/2020	<0.010	<0.0000050	6.25	0.000220	<0.00010	0.000540	0.104	<0.000050	<0.0010
VA20A6503-003	WQ7	Surface		5/13/2020	<0.010	<0.0000050	5.30	0.000210	<0.00010	0.000600	0.103	<0.000050	<0.0010
VA20A6869-001	WQ7	Surface		5/20/2020	<0.010	0.00000520	4.77	0.000220	<0.00010	0.000560	0.107	<0.000050	<0.0010
VA20A7367-001	WQ7	Surface		5/28/2020	<0.010	<0.0000050	4.92	0.000220	<0.00010	0.000510	0.0920	<0.000050	<0.0010
VA20A7672-004	WQ7	Surface		6/2/2020	<0.010	<0.0000050	5.31	0.000190	<0.00010	0.000420	0.0680	<0.000050	<0.0010
VA20A9918-005	WQ7	Surface	Dup	7/6/2020	<0.010	<0.0000050	7.94	0.000190	<0.00010	0.000460	0.0830	<0.000050	<0.0010
VA20A9918-001	WQ7	Surface		7/6/2020	<0.010	<0.0000050	7.86	0.000180	<0.00010	0.000460	0.0790	<0.000050	<0.0010
VA20B2156-004	WQ7	Surface		8/5/2020	<0.010	<0.0000050	12.5	0.000150	<0.00010	0.000280	0.0810	<0.000050	<0.0010
VA20B2542-005	WQ7	Surface	Dup	8/11/2020	<0.010	<0.0000050	11.4	0.000150	<0.00010	0.000330	0.0810	<0.000050	<0.0010
VA20B2542-003	WQ7	Surface		8/11/2020	<0.010	<0.0000050	11.3	0.000180	<0.00010	0.000360	0.0810	<0.000050	<0.0010
VA20B3218-001	WQ7	Surface		8/18/2020	<0.010	<0.0000050	12.0	0.000140	<0.00010	0.000310	0.0900	<0.000050	<0.0010
VA20B3609-002	WQ7	Surface		8/24/2020	<0.010	<0.0000050	12.0	0.000160	<0.00010	0.000240	0.0880	<0.000050	<0.0010
VA20B4443-003	WQ7	Surface		9/2/2020	<0.010	<0.0000050	12.5	0.000120	<0.00010	0.000280	0.0850	<0.000050	<0.0010
VA20B7624-001	WQ7	Surface		10/6/2020	<0.010	<0.0000050	13.5	0.000120	<0.00010	0.000280	0.0980	<0.000050	<0.0010
VA20C0298-001	WQ7	Surface		11/5/2020	<0.010	<0.0000050	6.92	0.000200	<0.00010	0.000600	0.143	<0.000050	<0.0010
	WQ8	Surface		4/19/2011	< 0.001	< 0.000015	20.9	< 0.0003	< 0.00002	0.000200	0.00550	< 0.00005	< 0.001
	WQ8	Surface		5/17/2011	< 0.001	< 0.000015	19.7	< 0.0003	< 0.00002	0.000300	0.00840	< 0.00005	< 0.001
	WQ8	Surface	Dup	5/24/2011	0.00200	< 0.000015	19.1	< 0.0003	< 0.00002	0.000200	0.0137	< 0.00005	< 0.001
	WQ8	Surface		5/24/2011	0.00300	< 0.000015	19.1	< 0.0003	< 0.00002	0.000300	0.0143	< 0.00005	< 0.001
	WQ8	Surface		5/30/2011	0.00400	< 0.000015	17.1	< 0.0003	0.0000200	0.000300	0.0446	< 0.00005	< 0.001
	WQ8	Surface		6/6/2011	0.00100	< 0.000015	18.1	< 0.0003	0.0000300	0.000500	0.0276	< 0.00005	< 0.001
	WQ8	Surface	Dup	6/13/2011	0.00100	< 0.000015	17.7	< 0.0003	0.0000400	0.000600	0.0438	< 0.00005	< 0.001
	WQ8	Surface		6/13/2011	0.00200	< 0.000015	17.7	< 0.0003	0.0000400	0.000600	0.0468	< 0.00005	< 0.001
	WQ8	Surface		7/18/2011	0.00100	< 0.000015	17.3	< 0.0003	0.0000200	0.000400	0.0373	< 0.00005	< 0.001
	WQ8	Surface		8/15/2011	< 0.001	< 0.000015	17.8	< 0.0003	0.0000200	0.000900	0.0245	0.0000500	< 0.001
	WQ8	Surface		9/19/2011	< 0.001	< 0.000015	18.9	< 0.0003	< 0.00002	0.000300	0.0180	< 0.00005	< 0.001
	WQ8	Surface		10/17/2011	0.00200	< 0.000015	20.8	< 0.0003	< 0.00002	< 0.0001	0.0167	< 0.00005	< 0.001

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Boron (B)-Dissolved	Cadmium (Cd)-Dissolved	Calcium (Ca)-Dissolved	Chromium (Cr)-Dissolved	Cobalt (Co)-Dissolved	Copper (Cu)-Dissolved	Iron (Fe)-Dissolved	Lead (Pb)-Dissolved	Lithium (Li)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ8	Surface		11/14/2011	0.00200	< 0.000015	20.2	< 0.0003	< 0.00002	0.000200	0.0127	< 0.00005	< 0.001
	WQ8	Surface		12/12/2011	0.00200	< 0.000015	21.4	< 0.0003	< 0.00002	0.000300	0.0123	< 0.00005	< 0.001
	WQ8	Surface		1/12/2012	< 0.001	< 0.000015	21.2	< 0.0003	< 0.00002	< 0.0001	0.00360	< 0.00005	< 0.001
	WQ8	Surface		2/13/2012	< 0.001	< 0.000015	22.9	< 0.0003	< 0.00002	0.000300	0.0150	< 0.00005	< 0.001
	WQ8	Surface		3/12/2012	< 0.001	< 0.000015	21.0	< 0.0003	< 0.00002	< 0.0001	0.0141	< 0.00005	< 0.001
	WQ8	Surface		4/16/2012	< 0.001	< 0.000015	19.2	< 0.0003	< 0.00002	0.000600	0.0128	< 0.00005	< 0.001
	WQ8	Surface		5/14/2012	< 0.001	< 0.000015	18.3	< 0.0003	< 0.00002	< 0.0001	0.0350	< 0.00005	< 0.001
	WQ8	Surface		5/22/2012	< 0.001	< 0.000015	18.6	< 0.0003	< 0.00002	0.00330	0.0222	0.000130	< 0.001
	WQ8	Surface		5/28/2012	< 0.001	< 0.000015	19.7	< 0.0003	< 0.00002	0.000200	0.0176	< 0.00005	< 0.001
	WQ8	Surface		6/4/2012	< 0.001	< 0.000015	18.8	< 0.0003	< 0.00002	0.000200	0.0183	< 0.00005	< 0.001
	WQ8	Surface		6/11/2012	0.00100	< 0.000015	25.4	< 0.0003	< 0.00002	< 0.0001	0.0195	< 0.00005	< 0.001
	WQ8	Surface		6/18/2012	< 0.001	< 0.000015	18.5	< 0.0003	< 0.00002	< 0.0001	0.0193	< 0.00005	< 0.001
	WQ8	Surface		7/16/2012	< 0.001	< 0.000015	18.8	< 0.0003	< 0.00002	< 0.0001	0.0141	< 0.00005	< 0.001
	WQ8	Surface		8/13/2012	0.00200	< 0.000015	21.0	< 0.0003	< 0.00002	< 0.0001	0.0117	< 0.00005	< 0.001
	WQ8	Surface		9/17/2012	< 0.001	< 0.000015	20.7	< 0.0003	< 0.00002	0.000100	0.0544	< 0.00005	< 0.001
	WQ8	Surface		10/15/2012	< 0.001	< 0.000015	21.0	< 0.0003	< 0.00002	< 0.0001	0.0110	< 0.00005	< 0.001
	WQ8	Surface		11/13/2012	< 0.001	< 0.000015	20.1	< 0.0003	< 0.00002	< 0.0001	0.0121	0.0000600	< 0.001
	WQ8	Surface		1/13/2013	< 0.001	< 0.000015	23.3	< 0.0003	< 0.00002	0.000300	0.0137	< 0.00005	< 0.001
	WQ8	Surface		2/12/2013	0.00200	< 0.000015	24.0	< 0.0003	< 0.00002	0.000300	0.00930	< 0.00005	< 0.001
	WQ8	Surface	Dup	3/11/2013	< 0.001	< 0.000015	23.5	< 0.0003	< 0.00002	0.000500	0.00990	< 0.00005	< 0.001
	WQ8	Surface		3/11/2013	< 0.001	< 0.000015	24.1	< 0.0003	< 0.00002	0.000400	0.0105	< 0.00005	< 0.001
	WQ8	Surface		4/15/2013	0.00700	< 0.000015	15.1	< 0.0003	0.0000200	0.000500	0.0704	< 0.00005	< 0.001
	WQ8	Surface		5/13/2013	< 0.001	< 0.000015	20.9	< 0.0003	< 0.00002	0.000300	0.0230	< 0.00005	< 0.001
	WQ8	Surface		5/22/2013	< 0.001	< 0.000015	24.7	< 0.0003	0.0000700	0.000200	0.365	< 0.00005	< 0.001
	WQ8	Surface		5/27/2013	< 0.001	< 0.000015	23.3	< 0.0003	< 0.00002	0.000300	0.0158	< 0.00005	< 0.001
	WQ8	Surface		6/6/2013	0.00200	< 0.000015	19.7	< 0.0003	< 0.00002	< 0.0001	0.0165	< 0.00005	< 0.001
	WQ8	Surface		6/10/2013	< 0.001	< 0.000015	19.6	< 0.0003	< 0.00002	< 0.0001	0.0215	< 0.00005	< 0.001
	WQ8	Surface		6/17/2013	< 0.001	< 0.000015	17.6	< 0.0003	0.0000300	< 0.0001	0.0266	< 0.00005	< 0.001
	WQ8	Surface		4/13/2014	< 0.001	< 0.000015	18.7	< 0.0003	0.0000300	0.000300	0.0367	< 0.00005	< 0.001
	WQ8	Surface		7/2/2014	< 0.001	< 0.000015	20.4	< 0.0003	< 0.00002	0.000400	0.0145	< 0.00005	< 0.001
	WQ8	Surface		9/24/2014	< 0.001	< 0.000015	22.1	< 0.0003	< 0.00002	0.000300	0.00790	< 0.00005	< 0.001
	WQ8	Surface	Dup	12/9/2014	< 0.001	< 0.000015	23.6	< 0.0003	< 0.00002	0.000300	0.00970	< 0.00005	< 0.001
	WQ8	Surface		12/9/2014	0.00100	< 0.000015	24.2	< 0.0003	< 0.00002	0.000300	0.0107	< 0.00005	< 0.001
L1913531-6	WQ8	Surface		4/12/2017	< 0.010	< 0.0000050	18.1	< 0.00010	< 0.00010	< 0.00050	< 0.030	< 0.000050	< 0.0010
L1926080-3	WQ8	Surface		5/11/2017	< 0.010	< 0.0000050	20.6	< 0.00010	< 0.00010	< 0.00050	< 0.030	< 0.000050	< 0.0010
L1939712-8	WQ8	Surface		6/7/2017	< 0.010	< 0.0000050	19.6	< 0.00010	< 0.00010	< 0.00050	< 0.030	< 0.000050	< 0.0010
L1962414-4	WQ8	Surface		7/19/2017	< 0.010	< 0.0000050	18.7	< 0.00010	< 0.00010	< 0.00050	< 0.030	< 0.000050	< 0.0010
L1984944-6	WQ8	Surface		8/30/2017	< 0.010	< 0.0000050	19.7	< 0.00010	< 0.00010	< 0.00050	< 0.030	< 0.000050	< 0.0010
L1987355-1	WQ8	Surface		9/5/2017	< 0.010	< 0.0000050	18.0	< 0.00010	< 0.00010	< 0.00050	< 0.030	< 0.000050	< 0.0010
L2009845-4	WQ8	Surface		10/17/2017	< 0.010	0.00000600	19.2	< 0.00010	< 0.00010	< 0.00050	< 0.030	< 0.000050	< 0.0010
L2020333-4	WQ8	Surface		11/7/2017	< 0.010	< 0.0000050	19.5	< 0.00010	< 0.00010	< 0.00050	< 0.030	< 0.000050	< 0.0010
L2034610-1	WQ8	Surface		12/11/2017	< 0.010	0.00000560	21.0	< 0.00010	< 0.00010	< 0.00050	< 0.030	< 0.000050	< 0.0010
L2049224-5	WQ8	Surface	Dup	1/23/2018	< 0.010	< 0.0000050	23.5	< 0.00010	< 0.00010	< 0.00050	< 0.030	< 0.000050	< 0.0010
L2049224-1	WQ8	Surface		1/23/2018	< 0.010	< 0.0000050	23.0	< 0.00010	< 0.00010	< 0.00050	< 0.030	< 0.000050	< 0.0010

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Boron (B)-Dissolved	Cadmium (Cd)-Dissolved	Calcium (Ca)-Dissolved	Chromium (Cr)-Dissolved	Cobalt (Co)-Dissolved	Copper (Cu)-Dissolved	Iron (Fe)-Dissolved	Lead (Pb)-Dissolved	Lithium (Li)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2057954-1	WQ8	Surface		2/15/2018	<0.010	<0.0000050	22.3	<0.00010	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L2073898-2	WQ8	Surface		3/27/2018	<0.010	<0.0000050	21.1	<0.00010	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L2081503-2	WQ8	Surface		4/17/2018	<0.010	<0.0000050	21.6	<0.00010	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L2096380-1	WQ8	Surface		5/15/2018	<0.010	<0.0000050	19.3	<0.00010	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L2104479-2	WQ8	Surface		5/30/2018	<0.010	0.0000127	18.3	<0.00010	<0.00010	<0.00050	<0.030	0.0000530	<0.0010
L2132128-2	WQ8	Surface		7/17/2018	<0.010	0.00000780	17.9	<0.00010	<0.00010	0.000530	<0.030	<0.000050	<0.0010
L2144782-1	WQ8	Surface		8/9/2018	<0.010	<0.0000050	19.4	<0.00010	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L2164448-2	WQ8	Surface		9/12/2018	<0.010	<0.0000050	21.9	<0.00010	<0.00010	0.000730	<0.030	<0.000050	<0.0010
L2187638-2	WQ8	Surface		10/24/2018	<0.010	<0.0000050	19.0	<0.00010	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L2203408-3	WQ8	Surface		11/27/2018	<0.010	<0.0000050	18.5	<0.00010	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L2213684-6	WQ8	Surface	Dup	12/19/2018	<0.010	<0.0000050	19.6	<0.00010	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L2213684-2	WQ8	Surface		12/19/2018	<0.010	<0.0000050	19.2	<0.00010	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L2227101-2	WQ8	Surface		1/29/2019	<0.010	<0.0000050	22.2	<0.00010	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L2232050-5	WQ8	Surface		2/11/2019	<0.010	<0.0000050	21.6	<0.00010	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L2245144-1	WQ8	Surface		3/14/2019	<0.010	<0.0000050	22.2	<0.00010	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L2256054-2	WQ8	Surface		4/9/2019	<0.010	<0.0000050	16.8	<0.00010	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L2277964-1	WQ8	Surface		5/21/2019	<0.010	<0.0000050	18.3	<0.00010	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L2286702-2	WQ8	Surface		6/4/2019	<0.010	<0.0000050	18.6	<0.00010	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L2313851-3	WQ8	Surface		7/18/2019	<0.010	<0.0000050	18.4	<0.00010	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L2328474-4	WQ8	Surface		8/12/2019	<0.010	<0.0000050	18.8	<0.00010	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L2349445-2	WQ8	Surface		9/16/2019	<0.010	<0.0000050	19.2	<0.00010	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
L2371052-2	WQ8	Surface		10/22/2019	<0.010	<0.0000050	19.8	<0.00010	<0.00010	0.000560	0.0330	<0.000050	<0.0010
L2388381-2	WQ8	Surface		11/25/2019	<0.010	<0.0000050	20.0	<0.00010	<0.00010	<0.00050	<0.030	<0.000050	<0.0010
VA19A0791-002	WQ8	Surface		12/17/2019	<0.010	<0.0000050	20.9	<0.00010	<0.00010	0.000600	0.0140	<0.000050	<0.0010
VA20A0960-002	WQ8	Surface		1/27/2020	<0.010	<0.0000050	22.0	<0.00010	<0.00010	0.000300	0.0110	<0.000050	<0.0010
VA20A2126-002	WQ8	Surface		2/19/2020	<0.010	<0.0000050	20.0	<0.00010	<0.00010	0.000280	<0.010	<0.000050	<0.0010
VA20A3691-003	WQ8	Surface		3/18/2020	<0.010	<0.0000050	20.6	<0.00010	<0.00010	0.000290	<0.010	<0.000050	<0.0010
VA20A4555-003	WQ8	Surface		4/7/2020	<0.010	<0.0000050	23.1	<0.00010	<0.00010	0.000320	<0.010	<0.000050	<0.0010
VA20A6356-001	WQ8	Surface		5/11/2020	<0.010	<0.0000050	19.3	<0.00010	<0.00010	0.000320	0.0170	<0.000050	<0.0010
VA20A7797-004	WQ8	Surface		6/3/2020	<0.010	<0.0000050	19.4	<0.00010	<0.00010	0.000330	0.0140	<0.000050	<0.0010
VA20B0021-004	WQ8	Surface		7/7/2020	<0.010	<0.0000050	18.7	0.000110	<0.00010	0.000430	<0.010	<0.000050	<0.0010
VA20B2156-005	WQ8	Surface		8/5/2020	<0.010	<0.0000050	20.2	<0.00010	<0.00010	0.000310	0.0100	<0.000050	<0.0010
VA20B4443-004	WQ8	Surface		9/2/2020	<0.010	<0.0000050	19.8	<0.00010	<0.00010	0.000280	0.0320	<0.000050	<0.0010
VA20B7624-002	WQ8	Surface		10/6/2020	<0.010	<0.0000050	19.1	<0.00010	<0.00010	0.000260	0.0180	<0.000050	<0.0010
VA20C0298-002	WQ8	Surface		11/5/2020	<0.010	<0.0000050	18.1	<0.00010	<0.00010	0.000300	0.0380	<0.000050	<0.0010
	WQ9	Surface	Dup	3/30/2011	< 0.001	< 0.000015	22.0	< 0.0003	0.0000300	0.000200	0.0817	< 0.00005	< 0.001
	WQ9	Surface		3/30/2011	< 0.001	< 0.000015	21.3	< 0.0003	0.0000300	0.000200	0.0851	< 0.00005	< 0.001
	WQ9	Surface	Dup	4/19/2011	< 0.001	< 0.000015	20.7	< 0.0003	0.0000400	0.000200	0.117	< 0.00005	< 0.001
	WQ9	Surface		4/19/2011	< 0.001	< 0.000015	21.2	< 0.0003	0.0000600	0.000300	0.246	< 0.00005	< 0.001
	WQ9	Surface		5/17/2011	< 0.001	< 0.000015	14.8	< 0.0003	0.0000400	0.000600	0.0934	< 0.00005	< 0.001
	WQ9	Surface		5/24/2011	0.00200	0.0000160	14.3	< 0.0003	0.0000300	0.000600	0.0927	< 0.00005	< 0.001
	WQ9	Surface	Dup	5/30/2011	0.00200	< 0.000015	13.2	< 0.0003	0.0000300	0.000600	0.0755	< 0.00005	< 0.001
	WQ9	Surface		5/30/2011	0.00200	< 0.000015	13.3	< 0.0003	0.0000400	0.000800	0.0845	< 0.00005	< 0.001
	WQ9	Surface		6/6/2011	< 0.001	0.0000210	14.3	< 0.0003	0.0000300	0.000600	0.0726	< 0.00005	< 0.001

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Boron (B)-Dissolved	Cadmium (Cd)-Dissolved	Calcium (Ca)-Dissolved	Chromium (Cr)-Dissolved	Cobalt (Co)-Dissolved	Copper (Cu)-Dissolved	Iron (Fe)-Dissolved	Lead (Pb)-Dissolved	Lithium (Li)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ9	Surface		6/13/2011	0.00100	< 0.000015	14.7	< 0.0003	0.0000300	0.000700	0.0709	< 0.00005	< 0.001
	WQ9	Surface		7/18/2011	0.00100	< 0.000015	15.4	< 0.0003	0.0000400	0.000600	0.120	< 0.00005	< 0.001
	WQ9	Surface		8/15/2011	< 0.001	< 0.000015	16.7	< 0.0003	0.0000300	0.000400	0.0982	< 0.00005	< 0.001
	WQ9	Surface		9/19/2011	< 0.001	< 0.000015	18.1	< 0.0003	0.0000300	0.000400	0.169	< 0.00005	< 0.001
	WQ9	Surface		10/17/2011	0.00100	< 0.000015	18.1	< 0.0003	0.0000300	< 0.0001	0.176	< 0.00005	< 0.001
	WQ9	Surface		11/14/2011	0.00100	< 0.000015	18.9	< 0.0003	0.0000200	0.000200	0.0988	< 0.00005	< 0.001
	WQ9	Surface		12/12/2011	0.00200	< 0.000015	20.3	< 0.0003	0.0000200	0.000300	0.0786	< 0.00005	< 0.001
	WQ9	Surface		1/12/2012	< 0.001	< 0.000015	20.9	< 0.0003	0.0000200	0.000200	0.0655	< 0.00005	< 0.001
	WQ9	Surface		2/13/2012	< 0.001	< 0.000015	21.2	< 0.0003	0.0000200	0.000400	0.0677	< 0.00005	< 0.001
	WQ9	Surface		3/12/2012	< 0.001	< 0.000015	19.9	< 0.0003	< 0.00002	< 0.0001	0.0682	< 0.00005	< 0.001
	WQ9	Surface		4/17/2012	< 0.001	< 0.000015	18.8	< 0.0003	0.0000400	0.000300	0.133	< 0.00005	< 0.001
	WQ9	Surface		5/14/2012	< 0.001	0.0000500	14.8	< 0.0003	0.0000300	0.000400	0.0851	< 0.00005	< 0.001
	WQ9	Surface	Dup	5/22/2012	< 0.001	< 0.000015	14.2	< 0.0003	< 0.00002	0.000200	0.0807	< 0.00005	< 0.001
	WQ9	Surface		5/22/2012	< 0.001	< 0.000015	14.4	< 0.0003	< 0.00002	0.00190	0.0778	0.000140	< 0.001
	WQ9	Surface		5/28/2012	< 0.001	0.0000580	14.5	< 0.0003	< 0.00002	0.000400	0.0739	< 0.00005	< 0.001
	WQ9	Surface		6/4/2012	< 0.001	< 0.000015	15.2	< 0.0003	< 0.00002	0.000300	0.0600	< 0.00005	< 0.001
	WQ9	Surface		6/11/2012	< 0.001	< 0.000015	15.1	< 0.0003	0.0000500	< 0.0001	0.0685	< 0.00005	< 0.001
	WQ9	Surface		6/18/2012	< 0.001	< 0.000015	15.9	< 0.0003	< 0.00002	< 0.0001	0.0668	< 0.00005	< 0.001
	WQ9	Surface		7/16/2012	< 0.001	< 0.000015	17.3	< 0.0003	< 0.00002	0.000100	0.0732	< 0.00005	< 0.001
	WQ9	Surface		8/13/2012	0.00200	< 0.000015	20.0	< 0.0003	0.0000200	< 0.0001	0.0933	< 0.00005	< 0.001
	WQ9	Surface		9/17/2012	< 0.001	< 0.000015	20.8	< 0.0003	< 0.00002	0.000100	0.106	< 0.00005	< 0.001
	WQ9	Surface		10/16/2012	< 0.001	< 0.000015	20.0	< 0.0003	< 0.00002	< 0.0001	0.119	< 0.00005	< 0.001
	WQ9	Surface		11/12/2012	< 0.001	< 0.000015	19.1	< 0.0003	0.0000300	< 0.0001	0.0899	< 0.00005	< 0.001
	WQ9	Surface	Dup	12/10/2012	< 0.001	< 0.000015	22.6	< 0.0003	< 0.00002	< 0.0001	0.0820	< 0.00005	< 0.001
	WQ9	Surface		12/10/2012	< 0.001	< 0.000015	22.2	< 0.0003	< 0.00002	< 0.0001	0.0838	< 0.00005	< 0.001
	WQ9	Surface		1/15/2013	< 0.001	< 0.000015	22.7	< 0.0003	0.0000200	0.000300	0.0703	< 0.00005	< 0.001
	WQ9	Surface		2/13/2013	0.00200	< 0.000015	21.8	< 0.0003	< 0.00002	0.000400	0.0830	< 0.00005	< 0.001
	WQ9	Surface		3/12/2013	< 0.001	< 0.000015	23.2	< 0.0003	0.0000200	0.000300	0.0853	< 0.00005	< 0.001
	WQ9	Surface		4/16/2013	< 0.001	< 0.000015	18.4	< 0.0003	0.0000300	0.000500	0.0752	< 0.00005	< 0.001
	WQ9	Surface		5/14/2013	< 0.001	< 0.000015	16.0	< 0.0003	0.0000400	0.000500	0.0791	< 0.00005	< 0.001
	WQ9	Surface		5/21/2013	< 0.001	< 0.000015	16.3	< 0.0003	< 0.00002	< 0.0001	0.0596	< 0.00005	< 0.001
	WQ9	Surface	Dup	5/28/2013	< 0.001	< 0.000015	17.7	< 0.0003	< 0.00002	0.000400	0.0751	< 0.00005	< 0.001
	WQ9	Surface		5/28/2013	< 0.001	< 0.000015	18.3	< 0.0003	< 0.00002	0.000500	0.0743	< 0.00005	< 0.001
	WQ9	Surface		6/4/2013	0.00200	< 0.000015	16.3	< 0.0003	0.0000300	0.000200	0.0621	< 0.00005	< 0.001
	WQ9	Surface		6/11/2013	< 0.001	< 0.000015	17.7	< 0.0003	0.0000300	0.000200	0.0630	< 0.00005	< 0.001
	WQ9	Surface		6/18/2013	< 0.001	< 0.000015	15.0	< 0.0003	0.0000400	< 0.0001	0.0815	< 0.00005	< 0.001
	WQ9	Surface		4/13/2014	< 0.001	< 0.000015	18.6	< 0.0003	0.0000400	0.000400	0.124	< 0.00005	< 0.001
	WQ9	Surface	Dup	7/2/2014	< 0.001	< 0.000015	19.1	< 0.0003	< 0.00002	0.000500	0.0794	< 0.00005	< 0.001
	WQ9	Surface		7/2/2014	< 0.001	< 0.000015	18.9	< 0.0003	< 0.00002	0.000400	0.0808	< 0.00005	< 0.001
	WQ9	Surface		9/24/2014	< 0.001	< 0.000015	21.8	< 0.0003	0.0000300	0.000300	0.154	< 0.00005	< 0.001
	WQ9	Surface		12/9/2014	< 0.001	< 0.000015	22.3	< 0.0003	< 0.00002	0.000300	0.0661	< 0.00005	< 0.001
L1812856-10	WQ9	Surface		8/10/2016	< 0.010	< 0.0000050	18.9	< 0.00010	< 0.00010	< 0.00050	0.0890	< 0.000050	< 0.0010
L1815654-10	WQ9	Surface		8/16/2016	< 0.010	< 0.0000050	18.7	< 0.00010	< 0.00010	< 0.00050	0.0710	< 0.000050	< 0.0010
L1819041-1	WQ9	Surface		8/23/2016	< 0.010	< 0.0000050	18.8	0.000100	< 0.00010	< 0.00050	0.0810	< 0.000050	< 0.0010

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Boron (B)-Dissolved	Cadmium (Cd)-Dissolved	Calcium (Ca)-Dissolved	Chromium (Cr)-Dissolved	Cobalt (Co)-Dissolved	Copper (Cu)-Dissolved	Iron (Fe)-Dissolved	Lead (Pb)-Dissolved	Lithium (Li)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
VA20A6218-005	WQ9	Surface	Dup	5/7/2020	<0.010	<0.0000050	15.7	0.000140	<0.00010	0.000640	0.103	<0.000050	<0.0010
VA20A6218-003	WQ9	Surface		5/7/2020	<0.010	<0.0000050	16.2	0.000110	<0.00010	0.000450	0.0560	<0.000050	<0.0010
VA20A6503-004	WQ9	Surface		5/13/2020	<0.010	<0.0000050	15.6	0.000110	<0.00010	0.000430	0.0580	<0.000050	<0.0010
VA20A6869-006	WQ9	Surface	Dup	5/20/2020	<0.010	<0.0000050	14.4	0.000110	<0.00010	0.000460	0.0650	<0.000050	<0.0010
VA20A6869-002	WQ9	Surface		5/20/2020	<0.010	<0.0000050	14.2	0.000120	<0.00010	0.000490	0.0670	<0.000050	<0.0010
VA20A7367-002	WQ9	Surface		5/28/2020	<0.010	<0.0000050	14.5	0.000110	<0.00010	0.000420	0.0500	<0.000050	<0.0010
VA20A7672-003	WQ9	Surface		6/2/2020	<0.010	<0.0000050	15.3	<0.00010	<0.00010	0.000370	0.0500	<0.000050	<0.0010
VA20A9918-002	WQ9	Surface		7/6/2020	<0.010	<0.0000050	15.5	0.000140	<0.00010	0.000500	0.0780	<0.000050	<0.0010
VA20B2156-006	WQ9	Surface		8/5/2020	<0.010	<0.0000050	19.0	<0.00010	<0.00010	0.000320	0.0600	<0.000050	<0.0010
VA20B2426-001	WQ9	Surface		8/10/2020	<0.010	<0.0000050	17.3	<0.00010	<0.00010	0.000310	0.0720	<0.000050	<0.0010
VA20B3033-005	WQ9	Surface	Dup	8/17/2020	<0.010	<0.0000050	18.3	<0.00010	<0.00010	0.000440	0.0820	<0.000050	<0.0010
VA20B3033-003	WQ9	Surface		8/17/2020	<0.010	<0.0000050	18.5	<0.00010	<0.00010	0.000400	0.0840	<0.000050	<0.0010
VA20B3609-003	WQ9	Surface		8/24/2020	<0.010	<0.0000050	18.6	0.000110	<0.00010	0.000290	0.100	<0.000050	<0.0010
VA20B4443-005	WQ9	Surface		9/2/2020	<0.010	<0.0000050	17.8	<0.00010	<0.00010	0.000340	0.102	<0.000050	<0.0010
VA20B7624-003	WQ9	Surface		10/6/2020	<0.010	<0.0000050	18.6	0.000100	<0.00010	0.000350	0.101	<0.000050	<0.0010
VA20C0298-003	WQ9	Surface		11/5/2020	<0.010	<0.0000050	15.0	0.000120	<0.00010	0.000600	0.113	<0.000050	<0.0010

Notes:

"-" indicates parameter was not analyzed.

"<" value is below the detection limit

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Magnesium (Mg)-Dissolved	Manganese (Mn)-Dissolved	Mercury (Hg)-Dissolved	Molybdenum (Mo)-Dissolved	Nickel (Ni)-Dissolved	Phosphorus (P)-Dissolved	Potassium (K)-Dissolved	Selenium (Se)-Dissolved	Silicon (Si)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1989016-1	BI-09	Surface		9/7/2017	2.32	0.00177	<0.0000050	0.000426	<0.00050	<0.30	0.425	<0.000050	4.41
L2049224-4	BI-09	Surface		1/23/2018	1.41	0.00136	<0.0000050	0.000439	<0.00050	<0.30	0.232	0.0000710	4.25
L2062480-1	BI-09	Surface		2/27/2018	1.53	0.00137	<0.0000050	0.000500	<0.00050	<0.30	0.257	<0.000050	3.93
L2073898-1	BI-09	Surface		3/27/2018	1.66	0.00112	<0.0000050	0.000493	<0.00050	<0.30	0.272	<0.000050	4.04
L2081505-2	BI-09	Surface	Dup	4/16/2018	1.54	0.00223	<0.0000050	0.000451	<0.00050	<0.30	0.289	<0.000050	4.51
L2081505-1	BI-09	Surface		4/16/2018	1.54	0.00232	<0.0000050	0.000381	<0.00050	<0.30	0.286	<0.000050	4.41
L2096380-2	BI-09	Surface		5/15/2018	0.808	0.00136	0.00000700	0.000248	<0.00050	<0.30	0.247	<0.000050	3.62
L2102737-3	BI-09	Surface		5/28/2018	1.02	0.00142	<0.0000050	0.000268	<0.00050	<0.30	0.243	<0.00010	4.23
L2132128-4	BI-09	Surface		7/17/2018	1.44	0.00243	0.00000850	0.000521	<0.00050	<0.30	0.342	<0.000050	4.30
L2144658-1	BI-09	Surface		8/8/2018	1.66	0.00252	<0.0000050	0.000481	<0.00050	<0.30	0.341	<0.000050	3.97
L2163669-1	BI-09	Surface		9/11/2018	1.85	0.000900	<0.0000050	0.000614	<0.00050	<0.30	0.356	<0.000050	3.41
L2187638-1	BI-09	Surface		10/24/2018	1.35	0.00122	0.00000620	0.000443	<0.00050	<0.30	0.262	<0.000050	3.81
L2204086-3	BI-09	Surface		11/28/2018	1.17	0.00250	0.00000530	0.000301	<0.00050	<0.30	0.259	<0.000050	4.06
L2213684-5	BI-09	Surface		12/19/2018	1.53	0.00133	0.00000670	0.000486	<0.00050	<0.30	0.281	0.0000720	3.88
L2227101-5	BI-09	Surface		1/29/2019	1.61	0.00121	<0.0000050	0.000491	<0.00050	<0.30	0.278	<0.000050	4.11
L2233329-6	BI-09	Surface	Dup	2/13/2019	1.66	0.00122	<0.0000050	0.000513	<0.00050	<0.30	0.296	<0.000050	3.73
L2233329-4	BI-09	Surface		2/13/2019	1.66	0.00122	<0.0000050	0.000540	<0.00050	<0.30	0.301	<0.000050	3.69
L2245144-5	BI-09	Surface		3/14/2019	1.84	0.00148	<0.0000050	0.000526	<0.00050	<0.30	0.301	<0.000050	3.68
L2256054-5	BI-09	Surface		4/9/2019	1.36	0.00416	0.00000910	0.000230	<0.00050	<0.30	0.476	<0.000050	4.57
L2282191-3	BI-09	Surface		5/28/2019	1.05	0.00159	0.00000850	0.000300	<0.00050	<0.30	0.258	<0.000050	4.07
L2285579-1	BI-09	Surface		6/3/2019	1.16	0.00162	0.00000590	0.000368	<0.00050	<0.30	0.226	<0.000050	4.04
L2313851-5	BI-09	Surface	Dup	7/18/2019	1.09	0.00317	0.00000620	0.000315	<0.00050	<0.30	0.205	<0.000050	4.33
L2313851-1	BI-09	Surface		7/18/2019	1.09	0.00274	0.00000670	0.000351	<0.00050	<0.30	0.210	<0.000050	4.35
L2329543-3	BI-09	Surface		8/13/2019	1.27	0.00311	0.00000670	0.000326	<0.00050	<0.30	0.223	<0.000050	4.75
L2350223-4	BI-09	Surface		9/17/2019	1.39	0.00272	<0.0000050	0.000438	<0.00050	<0.30	0.247	<0.000050	4.39
L2371052-5	BI-09	Surface		10/22/2019	1.20	0.00286	0.00000540	0.000298	<0.00050	<0.30	0.207	<0.000050	4.64
L2378996-1	BI-09	Surface		11/5/2019	1.22	0.00214	<0.0000050	0.000351	<0.00050	<0.30	0.229	<0.000050	4.59
VA19A0726-005	BI-09	Surface		12/16/2019	1.34	0.00187	<0.0000050	0.000363	<0.00050	<0.050	0.216	<0.000050	4.48
VA20A2126-001	BI-09	Surface		2/19/2020	1.63	0.00162	<0.0000050	0.000736	<0.00050	<0.050	0.244	<0.000050	4.04
VA20A7202-005	BI-09	Surface	Dup	5/26/2020	0.664	0.00232	0.00000580	0.000188	<0.00050	<0.050	0.251	<0.000050	4.27
VA20A7202-002	BI-09	Surface		5/26/2020	0.978	0.00158	0.00000600	0.000278	<0.00050	<0.050	0.237	<0.000050	3.77
VA20B2212-001	BI-09	Surface		8/6/2020	1.49	0.00382	<0.0000050	0.000339	<0.00050	<0.050	0.289	<0.000050	4.61
VA20C0197-002	BI-09	Surface		11/4/2020	1.05	0.00272	0.00000680	0.000233	<0.00050	<0.050	0.289	<0.000050	4.34
L1989016-2	BI-12	Surface		9/7/2017	1.44	0.00451	<0.0000050	0.000667	<0.00050	<0.30	0.382	<0.000050	3.53
L1762266-1	BI-13	Surface		4/27/2016	0.528	0.000570	0.00000500	0.000190	<0.00050	<0.30	0.235	<0.000050	3.91
L1764648-4	BI-13	Surface		5/3/2016	0.433	0.000530	<0.0000050	0.000151	<0.00050	<0.30	0.200	<0.000050	3.77
L1767107-1	BI-13	Surface		5/9/2016	0.498	0.000340	<0.0000050	0.000195	<0.00050	<0.30	0.202	<0.000050	4.03
L1770672-2	BI-13	Surface		5/16/2016	0.564	0.000320	<0.0000050	0.000293	<0.00050	<0.30	0.237	0.0000510	4.07
L1774541-4	BI-13	Surface	Dup	5/25/2016	0.624	0.000240	<0.0000050	0.000259	<0.00050	<0.30	0.231	0.0000620	4.11
L1774541-6	BI-13	Surface		5/25/2016	0.629	0.000190	<0.0000050	0.000242	<0.00050	<0.30	0.232	<0.000050	4.06
L1788643-4	BI-13	Surface		6/22/2016	0.460	0.000350	<0.0000050	0.000201	<0.00050	<0.30	0.199	<0.000050	3.91
L1808945-4	BI-13	Surface		8/3/2016	0.829	0.000310	<0.0000050	0.000337	<0.00050	<0.30	0.350	<0.000050	5.36
L1812856-4	BI-13	Surface	Dup	8/10/2016	0.804	0.000260	<0.0000050	0.000312	<0.00050	<0.30	0.336	0.0000580	5.12
L1812856-6	BI-13	Surface		8/10/2016	0.737	0.000210	<0.0000050	0.000324	<0.00050	<0.30	0.328	<0.000050	5.16

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Magnesium (Mg)-Dissolved	Manganese (Mn)-Dissolved	Mercury (Hg)-Dissolved	Molybdenum (Mo)-Dissolved	Nickel (Ni)-Dissolved	Phosphorus (P)-Dissolved	Potassium (K)-Dissolved	Selenium (Se)-Dissolved	Silicon (Si)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1815654-4	BI-13	Surface		8/16/2016	0.972	0.000170	<0.0000050	0.000368	<0.00050	<0.30	0.387	<0.000050	5.25
L1819041-7	BI-13	Surface		8/23/2016	0.730	0.000510	<0.0000050	0.000243	<0.00050	<0.30	0.302	<0.000050	4.48
L1823224-7	BI-13	Surface		8/31/2016	0.804	0.000250	<0.0000050	0.000292	<0.00050	<0.30	0.325	<0.000050	4.92
L1826303-1	BI-13	Surface		9/7/2016	0.522	0.000470	<0.0000050	0.000203	<0.00050	<0.30	0.212	<0.000050	4.23
L1988832-6	BI-13	Surface		9/9/2017	1.24	<0.00010	<0.0000050	0.000609	<0.00050	<0.30	0.422	<0.000050	5.48
	WQ1	Surface		5/17/2011	0.640	0.0227	0.0000170	< 0.00005	0.000410	0.0200	0.700	< 0.0006	4.03
	WQ1	Surface		5/24/2011	0.520	0.0137	0.0000120	< 0.00005	0.000400	0.0100	< 0.5	< 0.0006	3.41
	WQ1	Surface		5/30/2011	< 0.50	0.0116	0.00000900	< 0.00005	0.000330	0.0100	< 0.5	< 0.0006	3.16
	WQ1	Surface	Dup	6/6/2011	< 0.50	0.00636	< 0.000008	< 0.00005	0.000280	< 0.01	< 0.5	< 0.0006	3.26
	WQ1	Surface		6/6/2011	< 0.50	0.00633	< 0.000008	< 0.00005	0.000280	< 0.01	< 0.5	< 0.0006	3.17
	WQ1	Surface		6/13/2011	< 0.50	0.00281	< 0.000008	0.0000800	0.000270	< 0.01	< 0.5	< 0.0006	3.58
	WQ1	Surface		7/18/2011	< 0.50	0.00321	< 0.000008	0.0000800	0.000350	< 0.01	< 0.5	< 0.0006	4.52
	WQ1	Surface		8/15/2011	< 0.50	0.00613	< 0.000008	0.000110	0.000170	< 0.01	< 0.5	< 0.0006	5.02
	WQ1	Surface		9/19/2011	< 0.50	0.0137	< 0.000008	0.000190	< 0.00005	< 0.01	< 0.5	< 0.0006	5.72
	WQ1	Surface		10/17/2011	< 0.50	0.00874	< 0.000008	0.000160	0.000130	< 0.01	< 0.5	< 0.0006	5.77
	WQ1	Surface		11/14/2011	0.560	0.00948	< 0.000008	0.000250	0.000190	< 0.01	< 0.5	< 0.0006	5.55
	WQ1	Surface		5/15/2012	0.610	0.00980	< 0.000005	< 0.00005	0.000420	0.0100	< 0.5	< 0.0006	4.34
	WQ1	Surface		5/23/2012	0.570	0.00674	< 0.000005	0.0000600	< 0.00005	0.0100	< 0.5	< 0.0006	4.52
	WQ1	Surface		5/28/2012	< 0.50	0.00530	< 0.000005	< 0.00005	< 0.00005	0.0100	< 0.5	< 0.0006	4.03
	WQ1	Surface		6/4/2012	< 0.50	0.00303	< 0.000005	0.0000700	0.000250	< 0.01	< 0.5	< 0.0006	4.18
	WQ1	Surface		6/11/2012	< 0.50	0.00308	< 0.000005	0.0000500	0.000240	< 0.01	< 0.5	< 0.0006	4.28
	WQ1	Surface		6/18/2012	< 0.50	0.00397	< 0.000005	0.000370	0.000340	< 0.01	< 0.5	< 0.0006	3.93
	WQ1	Surface		7/16/2012	< 0.50	0.00560	< 0.000005	< 0.00005	0.000180	< 0.01	< 0.5	< 0.0006	5.51
	WQ1	Surface		8/13/2012	0.740	0.00941	< 0.000005	0.000330	0.000540	0.0500	< 0.5	< 0.0006	6.56
	WQ1	Surface		9/17/2012	0.640	0.0131	< 0.000005	0.000230	0.000330	< 0.01	< 0.5	< 0.0006	6.66
	WQ1	Surface		10/16/2012	0.650	0.0139	< 0.000005	0.000240	0.000220	< 0.01	< 0.5	< 0.0006	5.50
	WQ1	Surface		11/12/2012	0.670	0.0109	< 0.000005	0.000140	0.000140	< 0.01	< 0.5	< 0.0006	6.75
	WQ1	Surface		12/10/2012	0.740	0.0154	< 0.000005	0.000140	0.000130	< 0.01	< 0.5	< 0.0006	6.45
	WQ1	Surface		5/14/2013	< 0.50	0.00631	< 0.000005	0.0000800	0.000280	0.0100	< 0.5	< 0.0001	3.35
	WQ1	Surface	Dup	5/21/2013	< 0.50	0.00345	< 0.000005	0.0000700	0.000240	0.0100	< 0.5	< 0.0001	3.20
	WQ1	Surface		5/21/2013	< 0.50	0.00335	< 0.000005	0.0000700	0.000240	< 0.01	< 0.5	< 0.0001	3.18
	WQ1	Surface		5/28/2013	< 0.50	0.00281	< 0.000005	< 0.00005	< 0.00005	< 0.01	< 0.5	< 0.0001	3.51
	WQ1	Surface		6/4/2013	< 0.50	0.00275	< 0.000005	0.0000900	0.000220	< 0.01	< 0.5	< 0.0001	3.96
	WQ1	Surface		6/11/2013	< 0.50	0.00270	< 0.000005	0.0000900	0.000200	< 0.01	< 0.5	< 0.0001	3.16
	WQ1	Surface		6/18/2013	< 0.50	0.00105	< 0.000005	0.0000700	0.000180	< 0.01	< 0.5	< 0.0001	3.17
VA20A2211-005	WQ1	Surface	Dup	2/20/2020	0.675	0.0116	<0.0000050	0.000235	<0.00050	<0.050	0.264	<0.000050	5.76
VA20A2211-001	WQ1	Surface		2/20/2020	0.676	0.0116	<0.0000050	0.000180	<0.00050	<0.050	0.255	<0.000050	5.74
VA20A6810-001	WQ1	Surface		5/19/2020	0.347	0.00420	0.00000720	0.000103	<0.00050	<0.050	0.224	<0.000050	3.75
VA20B2212-002	WQ1	Surface		8/6/2020	0.603	0.0106	<0.0000050	0.000155	<0.00050	<0.050	0.186	<0.000050	5.55
VA20C1415-001	WQ1	Surface		11/19/2020	0.393	0.00628	0.00000530	0.000149	<0.00050	<0.050	0.127	<0.000050	5.35
	WQ10	Surface		3/30/2011	2.72	0.00115	0.0000100	0.000810	0.0000800	< 0.01	< 0.5	< 0.0006	6.22
	WQ10	Surface		4/19/2011	2.76	0.00111	< 0.000008	0.000840	0.0000700	< 0.01	< 0.5	< 0.0006	5.95
	WQ10	Surface		5/17/2011	0.880	0.00886	0.0000140	0.000100	0.000330	0.0200	0.600	< 0.0006	4.34
	WQ10	Surface		5/25/2011	0.690	0.00338	0.0000100	0.0000700	0.000300	0.0100	< 0.5	< 0.0006	3.94

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					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ10	Surface		5/31/2011	0.570	0.00242	< 0.000008	0.0000700	0.000280	< 0.01	< 0.5	< 0.0006	3.90
	WQ10	Surface		6/7/2011	0.530	0.00216	< 0.000008	0.0000900	0.000280	< 0.01	< 0.5	< 0.0006	3.79
	WQ10	Surface		6/14/2011	0.560	0.00174	< 0.000008	0.000170	0.000250	< 0.01	< 0.5	< 0.0006	4.02
	WQ10	Surface		7/19/2011	0.770	0.00245	< 0.000008	0.000190	0.000260	< 0.01	< 0.5	< 0.0006	4.57
	WQ10	Surface		8/16/2011	1.42	0.00275	< 0.000008	0.000420	0.000180	< 0.01	< 0.5	< 0.0006	5.55
	WQ10	Surface		9/20/2011	2.31	0.00248	< 0.000008	0.000680	< 0.00005	< 0.01	< 0.5	< 0.0006	5.97
	WQ10	Surface		10/18/2011	1.70	0.00205	< 0.000008	0.000390	< 0.00005	< 0.01	< 0.5	< 0.0006	6.05
	WQ10	Surface		11/15/2011	1.97	0.00229	< 0.000008	0.000580	0.000110	< 0.01	< 0.5	< 0.0006	6.06
	WQ10	Surface		12/12/2011	2.35	0.00177	< 0.000008	0.000620	< 0.00005	< 0.01	< 0.5	< 0.0006	6.37
	WQ10	Surface		1/12/2012	2.55	0.00152	< 0.000008	0.000680	< 0.00005	< 0.01	< 0.5	< 0.0006	7.43
	WQ10	Surface		2/13/2012	2.73	< 0.00005	< 0.000008	0.000710	0.0000700	< 0.01	< 0.5	< 0.0006	6.38
	WQ10	Surface		3/12/2012	2.55	0.00106	< 0.000008	0.000730	< 0.00005	< 0.01	< 0.5	< 0.0006	6.22
	WQ10	Surface		4/16/2012	2.62	0.00214	< 0.000008	0.000700	0.000110	< 0.01	< 0.5	< 0.0006	5.98
	WQ10	Surface		5/14/2012	0.810	0.00311	< 0.000005	0.000140	0.000320	< 0.01	< 0.5	< 0.0006	4.00
	WQ10	Surface		5/22/2012	0.750	0.00271	< 0.000005	0.0000800	0.000290	< 0.01	< 0.5	< 0.0006	4.45
	WQ10	Surface		5/29/2012	0.690	0.000580	< 0.000005	0.000150	< 0.00005	< 0.01	< 0.5	< 0.0006	4.49
	WQ10	Surface		6/5/2012	0.650	0.00181	< 0.000005	0.000150	0.000230	< 0.01	< 0.5	< 0.0006	4.54
	WQ10	Surface		6/12/2012	0.580	0.00228	< 0.000005	0.000190	0.000250	< 0.01	< 0.5	< 0.0006	4.65
	WQ10	Surface		6/19/2012	0.680	0.00223	< 0.000005	0.000240	0.000190	< 0.01	< 0.5	< 0.0006	4.46
	WQ10	Surface		7/17/2012	1.31	0.00244	< 0.000005	0.000400	0.0000800	< 0.01	< 0.5	< 0.0006	5.45
	WQ10	Surface		8/14/2012	1.85	0.00351	< 0.000005	0.000510	0.000220	< 0.01	< 0.5	< 0.0006	6.56
	WQ10	Surface		9/18/2012	2.46	0.00309	< 0.000005	0.000740	0.000110	< 0.01	< 0.5	< 0.0006	6.64
	WQ10	Surface		10/15/2012	2.61	0.00245	< 0.000005	0.000700	< 0.00005	< 0.01	< 0.5	< 0.0006	5.96
	WQ10	Surface		11/13/2012	2.61	0.00264	< 0.000005	0.000660	0.0000800	< 0.01	< 0.5	< 0.0006	6.71
	WQ10	Surface		1/13/2013	3.25	0.000810	< 0.000005	0.000800	< 0.00005	< 0.01	0.500	< 0.0006	6.90
	WQ10	Surface		2/12/2013	3.06	0.00179	< 0.000005	0.000650	< 0.00005	< 0.01	0.500	< 0.0006	6.47
	WQ10	Surface		3/11/2013	3.12	0.000900	< 0.000005	0.000880	0.0000900	< 0.01	0.500	< 0.0006	5.54
	WQ10	Surface		4/15/2013	2.24	0.00195	< 0.000005	0.000690	0.000150	< 0.01	< 0.5	< 0.0001	4.86
	WQ10	Surface		5/13/2013	0.730	0.00345	0.0000100	0.000140	0.000310	0.0200	< 0.5	< 0.0001	3.53
	WQ10	Surface		5/22/2013	0.700	0.00239	< 0.000005	0.000150	0.000240	< 0.01	< 0.5	< 0.0001	3.26
	WQ10	Surface		5/27/2013	0.770	0.00276	< 0.000005	< 0.00005	< 0.00005	< 0.01	< 0.5	< 0.0001	3.77
	WQ10	Surface		6/6/2013	0.710	0.00221	< 0.000005	0.000170	0.000220	< 0.01	< 0.5	< 0.0001	4.52
	WQ10	Surface		6/10/2013	0.790	0.00253	< 0.000005	0.000230	0.000190	< 0.01	< 0.5	< 0.0001	3.49
	WQ10	Surface		6/17/2013	0.730	0.000820	< 0.000005	0.000250	0.000170	< 0.01	< 0.5	< 0.0001	3.44
	WQ10	Surface		4/13/2014	2.48	0.00150	< 0.000005	0.000730	0.0000500	< 0.01	< 0.5	< 0.0001	5.09
	WQ10	Surface		7/2/2014	1.43	0.00231	< 0.000005	0.000200	< 0.00005	< 0.01	< 0.5	< 0.0001	5.39
	WQ10	Surface	Dup	9/24/2014	3.45	0.00326	< 0.000005	0.000950	0.0000900	< 0.01	0.700	< 0.0001	5.83
	WQ10	Surface		9/24/2014	3.35	0.00314	< 0.000005	0.000940	0.0000800	< 0.01	0.700	< 0.0001	5.81
	WQ10	Surface		12/8/2014	2.80	0.00163	< 0.000005	0.000750	< 0.00005	< 0.01	< 0.5	< 0.0001	6.54
L1913006-3	WQ10	Surface		4/11/2017	2.75	0.00241	< 0.0000050	0.000760	< 0.00050	< 0.30	0.463	0.0000710	6.44
L1925486-1	WQ10	Surface		5/10/2017	0.858	0.00586	0.00000800	0.000206	< 0.00050	< 0.30	0.498	< 0.000050	4.73
L1939712-10	WQ10	Surface		6/7/2017	0.791	0.00262	0.00000800	0.000217	< 0.00050	< 0.30	0.287	< 0.000050	4.70
L1961670-2	WQ10	Surface		7/18/2017	1.85	0.00311	< 0.0000050	0.000551	< 0.00050	< 0.30	0.383	0.0000550	5.61
L1984944-10	WQ10	Surface	Dup	8/30/2017	2.98	0.00293	< 0.0000050	0.000904	< 0.00050	< 0.30	0.510	0.0000540	5.87

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					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1984944-1	WQ10	Surface		8/30/2017	3.01	0.00292	<0.0000050	0.000897	<0.00050	<0.30	0.518	0.0000530	5.81
L1988832-1	WQ10	Surface		9/8/2017	2.79	0.00280	<0.0000050	0.000847	<0.00050	<0.30	0.508	0.0000700	6.15
L2011329-2	WQ10	Surface		10/19/2017	1.42	0.00397	<0.0000050	0.000379	<0.00050	<0.30	0.378	<0.000050	5.50
L2020946-1	WQ10	Surface		11/8/2017	1.41	0.00267	<0.0000050	0.000365	<0.00050	<0.30	0.268	<0.000050	5.83
L2035356-4	WQ10	Surface		12/12/2017	1.63	0.00223	<0.0000050	0.000509	<0.00050	<0.30	0.340	<0.000050	5.82
L2049678-2	WQ10	Surface		1/24/2018	2.21	0.00220	<0.0000050	0.000629	<0.00050	<0.30	0.407	0.0000530	6.11
L2057025-2	WQ10	Surface		2/13/2018	2.27	0.00186	<0.0000050	0.000692	<0.00050	<0.30	0.414	0.0000560	6.00
L2074294-8	WQ10	Surface	Dup	3/28/2018	2.71	0.00122	<0.0000050	0.000871	<0.00050	<0.30	0.434	0.0000710	6.02
L2074294-3	WQ10	Surface		3/28/2018	2.31	0.00206	<0.0000050	0.000760	<0.00050	<0.30	0.408	0.0000940	5.84
L2081503-4	WQ10	Surface		4/17/2018	2.42	0.00196	<0.0000050	0.000753	<0.00050	<0.30	0.424	0.0000760	5.68
L2097084-3	WQ10	Surface		5/16/2018	0.513	0.00351	0.0000107	0.000149	<0.00050	<0.30	0.248	0.0000620	3.73
L2103632-3	WQ10	Surface		5/29/2018	0.711	0.00292	0.00000540	0.000231	<0.00050	<0.30	0.249	0.0000540	4.77
L2132986-2	WQ10	Surface		7/18/2018	1.80	0.00388	<0.0000050	0.000712	<0.00050	<0.30	0.410	0.0000580	5.77
L2143640-6	WQ10	Surface		8/7/2018	1.94	0.00358	<0.0000050	0.000639	<0.00050	<0.30	0.441	0.0000530	5.81
L2163669-2	WQ10	Surface		9/11/2018	2.40	0.00246	<0.0000050	0.000749	<0.00050	<0.30	0.475	<0.000050	5.53
L2188218-1	WQ10	Surface		10/26/2018	1.69	0.00197	<0.0000050	0.000503	<0.00050	<0.30	0.341	<0.000050	5.93
L2204508-3	WQ10	Surface		11/29/2018	1.32	0.00225	<0.0000050	0.000412	<0.00050	<0.30	0.316	<0.000050	5.92
L2213246-1	WQ10	Surface		12/18/2018	1.75	0.00207	<0.0000050	0.000581	<0.00050	<0.30	0.358	<0.000050	5.90
L2227701-1	WQ10	Surface		1/30/2019	2.01	0.00148	<0.0000050	0.000604	<0.00050	<0.30	0.400	0.0000870	6.19
L2232050-6	WQ10	Surface		2/11/2019	2.18	0.00145	<0.0000050	0.000689	<0.00050	<0.30	0.382	0.0000600	5.83
L2244756-1	WQ10	Surface		3/13/2019	2.79	0.00121	<0.0000050	0.000829	<0.00050	<0.30	0.447	0.0000630	6.13
L2256053-5	WQ10	Surface	Dup	4/8/2019	2.12	0.00289	<0.0000050	0.000559	<0.00050	<0.30	0.466	0.0000730	5.59
L2256053-1	WQ10	Surface		4/8/2019	1.92	0.00268	<0.0000050	0.000584	<0.00050	<0.30	0.436	0.0000580	5.22
L2273497-1	WQ10	Surface		5/13/2019	0.746	0.00328	0.00000940	0.000219	<0.00050	<0.30	0.351	<0.000050	4.22
L2285579-6	WQ10	Surface		6/3/2019	0.898	0.00325	<0.0000050	0.000278	<0.00050	<0.30	0.275	<0.000050	4.96
L2312637-1	WQ10	Surface		7/16/2019	1.01	0.00434	<0.0000050	0.000303	<0.00050	<0.30	0.209	<0.000050	5.76
L2326388-1	WQ10	Surface		8/8/2019	1.05	0.00465	<0.0000050	0.000314	<0.00050	<0.30	0.267	<0.000050	5.73
L2350223-1	WQ10	Surface		9/17/2019	1.51	0.00296	<0.0000050	0.000508	<0.00050	<0.30	0.358	0.0000600	5.98
L2372667-1	WQ10	Surface		10/23/2019	1.07	0.00288	<0.0000050	0.000310	<0.00050	<0.30	0.268	<0.000050	5.76
L2383392-1	WQ10	Surface		11/14/2019	0.985	0.00289	0.00000530	0.000304	<0.00050	<0.30	0.268	<0.000050	5.68
VA19A0726-004	WQ10	Surface		12/16/2019	1.31	0.00277	<0.0000050	0.000380	<0.00050	<0.050	0.298	0.0000760	5.84
VA20A0812-001	WQ10	Surface		1/23/2020	1.77	0.00235	<0.0000050	0.000561	<0.00050	<0.050	0.366	<0.000050	5.74
VA20A1887-001	WQ10	Surface		2/13/2020	1.89	0.00214	<0.0000050	0.000612	<0.00050	<0.050	0.365	0.0000500	5.45
VA20A3516-001	WQ10	Surface		3/16/2020	2.22	0.00182	<0.0000050	0.000755	<0.00050	<0.050	0.420	0.0000530	6.43
VA20A4369-001	WQ10	Surface		4/1/2020	2.37	0.00220	<0.0000050	0.000732	<0.00050	<0.050	0.428	0.0000920	5.96
VA20A6218-001	WQ10	Surface		5/7/2020	0.831	0.00277	0.00000810	0.000180	<0.00050	<0.050	0.350	<0.000050	4.83
VA20A6356-002	WQ10	Surface		5/11/2020	0.729	0.00301	<0.0000050	0.000165	<0.00050	<0.050	0.325	<0.000050	4.17
VA20A6810-003	WQ10	Surface		5/19/2020	0.591	0.00256	<0.0000050	0.000164	<0.00050	<0.050	0.262	<0.000050	4.11
VA20A7202-003	WQ10	Surface		5/26/2020	0.662	0.00239	0.00000620	0.000213	<0.00050	<0.050	0.250	<0.000050	4.22
VA20A7672-002	WQ10	Surface		6/2/2020	0.700	0.00258	0.00000530	0.000239	<0.00050	<0.050	0.244	<0.000050	4.49
VA20A9918-003	WQ10	Surface		7/6/2020	0.934	0.00331	<0.0000050	0.000329	<0.00050	<0.050	0.265	<0.000050	4.93
VA20B2156-008	WQ10	Surface	Dup	8/5/2020	1.70	0.00427	<0.0000050	0.000531	<0.00050	<0.050	0.358	<0.000050	5.91
VA20B2156-001	WQ10	Surface		8/5/2020	1.67	0.00414	<0.0000050	0.000567	<0.00050	<0.050	0.359	<0.000050	5.95
VA20B2426-004	WQ10	Surface		8/10/2020	1.46	0.00392	<0.0000050	0.000458	<0.00050	<0.050	0.357	0.0000510	6.00

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					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
VA20B3264-002	WQ10	Surface		8/19/2020	1.60	0.00360	<0.000050	0.000520	<0.00050	<0.050	0.369	0.0000500	5.84
VA20B3609-001	WQ10	Surface		8/24/2020	1.65	0.00339	<0.000050	0.000498	<0.00050	<0.050	0.324	<0.000050	5.43
VA20B4313-001	WQ10	Surface		9/1/2020	1.52	0.00307	<0.000050	0.000504	<0.00050	<0.050	0.338	<0.000050	5.66
VA20B7624-004	WQ10	Surface		10/6/2020	1.90	0.00371	<0.000050	0.000568	<0.00050	<0.050	0.478	<0.000050	5.88
VA20C0197-003	WQ10	Surface		11/4/2020	0.776	0.00412	0.0000680	0.000198	<0.00050	<0.050	0.291	<0.000050	5.29
	WQ11	Surface		3/30/2011	4.11	0.000810	< 0.00008	0.000350	0.000270	< 0.01	0.500	< 0.0006	6.26
	WQ11	Surface		4/19/2011	3.10	0.00116	< 0.00008	0.000350	0.000100	< 0.01	< 0.5	< 0.0006	5.69
	WQ11	Surface		5/17/2011	1.14	0.00359	0.0000150	< 0.00005	0.000300	0.0200	0.600	< 0.0006	4.43
	WQ11	Surface		5/25/2011	0.860	0.00320	0.0000140	< 0.00005	0.000300	0.0200	< 0.5	< 0.0006	4.41
	WQ11	Surface		5/31/2011	0.740	0.00189	0.00000900	< 0.00005	0.000270	0.0100	< 0.5	< 0.0006	4.45
	WQ11	Surface		6/6/2011	0.700	0.00179	< 0.00008	< 0.00005	0.000250	< 0.01	< 0.5	< 0.0006	4.49
	WQ11	Surface		6/13/2011	0.840	0.00167	< 0.00008	0.0000700	0.000260	< 0.01	< 0.5	< 0.0006	4.85
	WQ11	Surface		7/18/2011	1.01	0.00250	0.0000120	0.0000800	0.000290	< 0.01	< 0.5	< 0.0006	5.57
	WQ11	Surface		8/15/2011	1.67	0.00163	< 0.00008	0.000120	0.000180	< 0.01	< 0.5	< 0.0006	6.17
	WQ11	Surface		9/19/2011	2.98	0.000460	< 0.00008	0.000230	< 0.00005	< 0.01	0.500	< 0.0006	6.37
	WQ11	Surface		10/17/2011	2.08	0.00156	< 0.00008	0.000130	0.0000900	< 0.01	< 0.5	< 0.0006	6.51
	WQ11	Surface		11/14/2011	2.41	0.00117	< 0.00008	0.000250	0.000150	< 0.01	< 0.5	< 0.0006	6.31
	WQ11	Surface		12/12/2011	3.04	0.00104	< 0.00008	0.000230	0.000120	< 0.01	< 0.5	< 0.0006	6.56
	WQ11	Surface		5/15/2012	0.940	0.00202	< 0.00005	< 0.00005	0.000280	0.0100	< 0.5	< 0.0006	4.32
	WQ11	Surface		5/22/2012	0.810	0.00219	< 0.00005	< 0.00005	0.000230	0.0100	< 0.5	< 0.0006	4.95
	WQ11	Surface		5/28/2012	0.750	0.000250	< 0.00005	0.0000500	< 0.00005	0.0100	< 0.5	< 0.0006	4.92
	WQ11	Surface		6/4/2012	0.810	0.00125	0.00000900	< 0.00005	0.000220	< 0.01	< 0.5	< 0.0006	5.42
	WQ11	Surface		6/11/2012	0.930	0.00146	< 0.00005	0.0000900	0.000240	< 0.01	< 0.5	< 0.0006	5.81
	WQ11	Surface		6/18/2012	0.980	0.00145	< 0.00005	0.0000700	0.000240	< 0.01	< 0.5	< 0.0006	5.33
	WQ11	Surface		7/16/2012	1.67	0.00128	< 0.00005	0.000190	0.000130	< 0.01	< 0.5	< 0.0006	6.13
	WQ11	Surface		8/13/2012	1.89	0.00168	< 0.00005	0.000170	0.000200	< 0.01	0.500	< 0.0006	7.54
	WQ11	Surface		9/17/2012	3.08	0.000280	< 0.00005	0.000260	0.000120	< 0.01	0.600	< 0.0006	6.97
	WQ11	Surface		10/15/2012	3.91	< 0.00005	< 0.00005	0.000380	< 0.00005	< 0.01	0.600	< 0.0006	5.88
	WQ11	Surface		11/13/2012	3.25	0.00101	< 0.00005	0.000260	< 0.00005	< 0.01	0.500	< 0.0006	6.30
	WQ11	Surface		1/13/2013	4.82	< 0.00005	< 0.00005	0.000310	< 0.00005	< 0.01	0.700	< 0.0006	6.73
	WQ11	Surface		2/12/2013	5.27	0.000490	< 0.00005	0.000280	< 0.00005	< 0.01	0.700	< 0.0006	6.73
	WQ11	Surface		4/15/2013	1.95	0.00513	< 0.00005	0.000140	0.000250	< 0.01	0.500	< 0.0001	4.71
	WQ11	Surface		5/13/2013	0.840	0.00241	< 0.00005	0.0000700	0.000250	0.0100	< 0.5	< 0.0001	4.85
	WQ11	Surface		5/22/2013	0.870	0.00235	0.0000160	0.0000600	0.000250	0.0100	< 0.5	< 0.0001	3.62
	WQ11	Surface		5/27/2013	1.00	0.00254	< 0.00005	< 0.00005	< 0.00005	< 0.01	< 0.5	< 0.0001	4.49
	WQ11	Surface		6/6/2013	1.03	0.00236	< 0.00005	0.0000700	0.000270	< 0.01	< 0.5	< 0.0001	5.32
	WQ11	Surface		6/10/2013	1.12	0.00235	< 0.00005	0.0000900	0.000250	< 0.01	< 0.5	< 0.0001	4.10
	WQ11	Surface		6/17/2013	1.03	0.000620	< 0.00005	0.0000700	0.000270	< 0.01	< 0.5	< 0.0001	3.87
L1762266-2	WQ11	Surface		4/27/2016	1.01	0.00194	0.0000160	0.0000960	<0.00050	<0.30	0.373	0.0000530	5.37
L1764648-1	WQ11	Surface		5/3/2016	1.03	0.00176	0.0000140	0.0000820	<0.00050	<0.30	0.345	0.0000510	5.74
L1767107-6	WQ11	Surface	Dup	5/9/2016	1.22	0.00197	0.0000160	0.0000960	<0.00050	<0.30	0.340	0.0000580	5.97
L1767107-2	WQ11	Surface		5/9/2016	1.22	0.00189	0.0000170	0.0000880	<0.00050	<0.30	0.347	<0.000050	6.03
L1770672-5	WQ11	Surface	Dup	5/16/2016	1.38	0.00129	0.0000140	0.000128	<0.00050	<0.30	0.404	<0.000050	6.12
L1770672-1	WQ11	Surface		5/16/2016	1.37	0.00120	0.0000140	0.000127	<0.00050	<0.30	0.406	<0.000050	6.10

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					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1774541-1	WQ11	Surface		5/25/2016	1.65	0.00108	0.00000700	0.000142	<0.00050	<0.30	0.423	<0.000050	6.16
L1788643-1	WQ11	Surface		6/22/2016	1.09	0.00211	0.00000900	0.0000820	0.00113	<0.30	0.272	<0.000050	6.00
L1808945-1	WQ11	Surface		8/3/2016	1.71	0.00170	<0.0000050	0.000104	<0.00050	<0.30	0.427	0.0000540	6.86
L1812856-1	WQ11	Surface		8/10/2016	1.78	0.00185	0.00000600	0.000131	<0.00050	<0.30	0.460	0.0000590	6.83
L1815654-1	WQ11	Surface		8/16/2016	2.20	0.00117	<0.0000050	0.000159	<0.00050	<0.30	0.504	<0.000050	6.75
L1819041-6	WQ11	Surface		8/23/2016	1.99	0.00189	<0.0000050	0.000171	<0.00050	<0.30	0.464	0.0000590	6.39
L1823224-4	WQ11	Surface		8/31/2016	2.19	0.00139	0.00000500	0.000187	<0.00050	<0.30	0.483	0.0000680	6.60
L1826303-3	WQ11	Surface		9/7/2016	1.66	0.00171	0.00000700	0.000145	<0.00050	<0.30	0.383	0.0000530	6.12
	WQ12	Surface		4/19/2011	1.35	0.0107	< 0.000008	0.000520	0.0000900	< 0.01	< 0.5	< 0.0006	3.02
	WQ12	Surface		5/17/2011	0.770	0.00944	0.0000110	0.000130	0.000130	0.0100	< 0.5	< 0.0006	3.56
	WQ12	Surface		5/24/2011	0.680	0.00203	< 0.000008	0.000210	0.000120	< 0.01	< 0.5	< 0.0006	3.12
	WQ12	Surface		5/30/2011	0.600	0.00146	< 0.000008	0.000170	0.000120	< 0.01	< 0.5	< 0.0006	3.59
	WQ12	Surface		6/6/2011	0.650	0.00199	< 0.000008	0.000250	0.000100	< 0.01	< 0.5	< 0.0006	3.00
	WQ12	Surface		6/13/2011	0.740	0.00294	< 0.000008	0.000360	0.000110	< 0.01	< 0.5	< 0.0006	3.17
	WQ12	Surface		7/18/2011	0.770	0.00344	< 0.000008	0.000320	0.000110	< 0.01	< 0.5	< 0.0006	3.48
	WQ12	Surface		8/15/2011	0.940	0.00607	< 0.000008	0.000420	0.0000700	< 0.01	< 0.5	< 0.0006	3.73
	WQ12	Surface		9/19/2011	1.12	0.00642	< 0.000008	0.000530	< 0.00005	< 0.01	< 0.5	< 0.0006	3.71
	WQ12	Surface		10/17/2011	1.02	0.00858	< 0.000008	0.000340	< 0.00005	< 0.01	< 0.5	< 0.0006	3.96
	WQ12	Surface		11/14/2011	1.01	0.0111	< 0.000008	0.000450	0.0000900	< 0.01	< 0.5	< 0.0006	3.67
	WQ12	Surface		12/12/2011	1.21	0.0156	< 0.000008	0.000540	< 0.00005	< 0.01	< 0.5	< 0.0006	3.95
	WQ12	Surface		1/12/2012	1.19	0.0108	< 0.000008	0.000520	0.0000500	< 0.01	< 0.5	< 0.0006	4.09
	WQ12	Surface		2/13/2012	1.24	0.00520	< 0.000008	0.000510	0.0000900	< 0.01	< 0.5	< 0.0006	3.72
	WQ12	Surface	Dup	3/12/2012	1.19	0.00728	< 0.000008	0.000560	0.0000700	< 0.01	< 0.5	< 0.0006	3.13
	WQ12	Surface		3/12/2012	1.16	0.00749	< 0.000008	0.000540	0.0000700	< 0.01	< 0.5	< 0.0006	3.12
	WQ12	Surface		4/16/2012	1.30	0.0182	< 0.000008	0.000360	0.000130	< 0.01	0.700	< 0.0006	4.16
	WQ12	Surface		5/15/2012	0.680	0.00530	< 0.000005	0.000150	0.000170	< 0.01	< 0.5	< 0.0006	3.28
	WQ12	Surface		5/22/2012	0.640	0.00370	< 0.000005	0.000100	0.0000600	< 0.01	< 0.5	< 0.0006	3.54
	WQ12	Surface		5/28/2012	0.770	0.00187	< 0.000005	0.000250	< 0.00005	< 0.01	< 0.5	< 0.0006	3.62
	WQ12	Surface		6/4/2012	0.770	0.00423	< 0.000005	0.000420	0.0000700	< 0.01	< 0.5	< 0.0006	3.59
	WQ12	Surface		6/11/2012	0.790	0.00591	< 0.000005	0.000340	0.000110	< 0.01	< 0.5	< 0.0006	3.70
	WQ12	Surface		6/18/2012	0.770	0.00676	< 0.000005	0.000370	0.0000900	0.0100	< 0.5	< 0.0006	3.46
	WQ12	Surface		7/16/2012	0.980	0.00762	< 0.000005	0.000470	0.000100	< 0.01	< 0.5	< 0.0006	3.61
	WQ12	Surface		8/13/2012	1.27	0.00999	< 0.000005	0.000620	0.000140	< 0.01	< 0.5	< 0.0006	3.74
	WQ12	Surface		9/17/2012	1.44	0.0148	< 0.000005	0.000510	0.000120	< 0.01	< 0.5	< 0.0006	3.99
	WQ12	Surface		10/15/2012	1.54	0.00600	< 0.000005	0.000500	0.0000500	< 0.01	< 0.5	< 0.0006	3.73
	WQ12	Surface		11/13/2012	1.29	0.0104	< 0.000005	0.000450	< 0.00005	< 0.01	< 0.5	< 0.0006	3.82
	WQ12	Surface		1/13/2013	1.26	0.00912	< 0.000005	0.000420	0.000100	< 0.01	< 0.5	< 0.0006	3.99
	WQ12	Surface		2/12/2013	1.29	0.00811	< 0.000005	0.000430	< 0.00005	< 0.01	< 0.5	< 0.0006	3.24
	WQ12	Surface		3/11/2013	1.35	0.00762	< 0.000005	0.000600	0.0000900	< 0.01	< 0.5	< 0.0006	2.63
	WQ12	Surface		4/15/2013	1.04	0.0112	< 0.000005	0.000420	0.000140	< 0.01	< 0.5	< 0.0001	3.08
	WQ12	Surface		5/13/2013	0.860	0.00372	< 0.000005	0.000330	0.000110	< 0.01	< 0.5	< 0.0001	2.85
	WQ12	Surface		5/22/2013	0.750	0.00408	< 0.000005	0.000300	0.000110	< 0.01	< 0.5	< 0.0001	2.56
	WQ12	Surface		5/27/2013	0.900	0.00427	< 0.000005	< 0.00005	< 0.00005	< 0.01	< 0.5	< 0.0001	2.96
	WQ12	Surface		6/6/2013	0.800	0.00349	< 0.000005	0.000330	0.0000800	< 0.01	< 0.5	< 0.0001	3.21

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Magnesium (Mg)-Dissolved	Manganese (Mn)-Dissolved	Mercury (Hg)-Dissolved	Molybdenum (Mo)-Dissolved	Nickel (Ni)-Dissolved	Phosphorus (P)-Dissolved	Potassium (K)-Dissolved	Selenium (Se)-Dissolved	Silicon (Si)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ12	Surface		6/10/2013	0.860	0.00803	< 0.000005	0.000380	0.000100	< 0.01	< 0.5	< 0.0001	2.44
	WQ12	Surface		6/17/2013	0.750	0.00410	< 0.000005	0.000310	0.0000700	< 0.01	< 0.5	< 0.0001	2.48
	WQ13	Surface		4/19/2011	4.85	0.0450	< 0.000008	0.000640	0.000200	< 0.01	0.900	< 0.0006	4.84
	WQ13	Surface		5/17/2011	3.33	0.00947	< 0.000008	0.000390	0.000250	0.0200	0.900	< 0.0006	4.46
	WQ13	Surface		5/24/2011	3.13	0.00505	< 0.000008	0.000480	0.000280	0.0100	0.800	< 0.0006	4.08
	WQ13	Surface		5/30/2011	3.32	0.00456	< 0.000008	0.000420	0.000320	0.0100	0.800	< 0.0006	4.14
	WQ13	Surface		6/6/2011	3.32	0.00895	< 0.000008	0.000420	0.000300	< 0.01	0.700	< 0.0006	4.24
	WQ13	Surface		6/13/2011	3.37	0.0122	< 0.000008	0.000470	0.000310	< 0.01	0.600	< 0.0006	4.11
	WQ13	Surface		7/18/2011	3.21	0.0138	< 0.000008	0.000520	0.000320	< 0.01	0.600	< 0.0006	4.45
	WQ13	Surface		8/15/2011	4.04	0.0186	< 0.000008	0.000540	0.000260	< 0.01	0.700	< 0.0006	4.07
	WQ13	Surface		9/19/2011	4.25	0.0477	< 0.000008	0.000690	< 0.00005	< 0.01	0.700	< 0.0006	4.76
	WQ13	Surface		10/17/2011	4.08	0.0344	< 0.000008	0.000510	0.000160	< 0.01	0.700	< 0.0006	5.10
	WQ13	Surface		11/14/2011	4.45	0.0317	< 0.000008	0.000530	0.000330	0.0100	0.800	< 0.0006	4.81
	WQ13	Surface		12/13/2011	4.70	0.0287	< 0.000008	0.000560	0.000120	0.0100	0.700	< 0.0006	5.25
	WQ13	Surface		1/12/2012	4.83	0.0245	< 0.000008	0.000570	0.000200	0.0100	0.900	< 0.0006	6.33
	WQ13	Surface		2/13/2012	4.75	0.0206	< 0.000008	0.000590	0.000220	< 0.01	0.800	< 0.0006	5.48
	WQ13	Surface		3/12/2012	4.35	0.0174	< 0.000008	0.000580	0.000190	0.0100	0.800	< 0.0006	5.26
	WQ13	Surface		4/16/2012	4.44	0.0455	< 0.000008	0.000560	0.000250	0.0200	1.40	< 0.0006	5.00
	WQ13	Surface		5/15/2012	3.38	0.0593	< 0.000005	0.000530	0.000260	0.0100	0.700	< 0.0006	4.33
	WQ13	Surface		5/22/2012	3.15	0.0145	< 0.000005	0.000350	0.000220	< 0.01	0.600	< 0.0006	4.60
	WQ13	Surface		5/28/2012	3.80	0.0139	< 0.000005	0.000430	< 0.00005	< 0.01	0.700	< 0.0006	4.82
	WQ13	Surface		6/4/2012	3.47	0.0108	< 0.000005	0.000460	0.000200	< 0.01	0.600	< 0.0006	4.70
	WQ13	Surface	Dup	6/11/2012	3.93	0.0135	< 0.000005	0.000460	0.000290	< 0.01	0.700	< 0.0006	4.78
	WQ13	Surface		6/11/2012	3.44	0.0117	< 0.000005	0.000470	0.000260	< 0.01	0.600	< 0.0006	4.95
	WQ13	Surface		6/18/2012	3.53	0.0161	< 0.000005	0.000450	0.000290	< 0.01	0.600	< 0.0006	4.24
	WQ13	Surface		7/16/2012	4.06	0.0186	< 0.000005	0.000540	0.000180	< 0.01	0.700	< 0.0006	3.88
	WQ13	Surface		8/13/2012	4.45	0.0316	< 0.000005	0.000590	0.000250	< 0.01	0.800	< 0.0006	4.17
	WQ13	Surface		9/17/2012	4.51	0.0285	< 0.000005	0.000610	0.000240	< 0.01	0.800	< 0.0006	4.09
	WQ13	Surface		10/15/2012	4.56	0.0312	< 0.000005	0.000620	0.000140	< 0.01	0.800	< 0.0006	3.80
	WQ13	Surface		11/12/2012	4.59	0.0366	< 0.000005	0.000530	0.000100	< 0.01	0.800	< 0.0006	5.87
	WQ13	Surface		1/15/2013	5.34	0.0304	< 0.000005	0.000620	0.000340	0.0200	1.10	< 0.0006	5.41
	WQ13	Surface		5/14/2013	3.54	0.0161	< 0.000005	0.000450	0.000260	< 0.01	0.700	< 0.0001	3.77
	WQ13	Surface		5/22/2013	0.960	0.00233	< 0.000005	0.000190	0.000220	< 0.01	< 0.5	< 0.0001	3.29
	WQ13	Surface		5/28/2013	3.70	0.0107	< 0.000005	0.0000900	< 0.00005	< 0.01	0.800	< 0.0001	3.97
	WQ13	Surface		6/4/2013	3.63	0.00990	< 0.000005	0.000440	0.000230	< 0.01	0.700	< 0.0001	4.05
	WQ13	Surface		6/10/2013	3.92	0.0144	< 0.000005	0.000490	0.000350	< 0.01	0.600	< 0.0001	3.07
	WQ13	Surface		6/18/2013	3.41	0.0123	< 0.000005	0.000490	0.000290	< 0.01	< 0.5	< 0.0001	2.97
L1913531-4	WQ13	Surface	Dup	4/12/2017	4.04	0.0251	<0.0000050	0.000567	<0.00050	<0.30	0.772	0.0000540	4.42
L1913531-2	WQ13	Surface		4/12/2017	3.72	0.0241	<0.0000050	0.000505	<0.00050	<0.30	0.729	<0.000050	4.25
L1926080-1	WQ13	Surface		5/11/2017	4.10	0.0102	<0.0000050	0.000478	<0.00050	<0.30	0.831	<0.000050	4.39
L1939712-11	WQ13	Surface		6/7/2017	3.95	0.0130	<0.0000050	0.000497	<0.00050	<0.30	0.701	0.0000530	3.48
L1964508-2	WQ13	Surface		7/24/2017	4.31	0.0279	<0.0000050	0.000583	<0.00050	<0.30	0.754	<0.000050	3.92
L1984944-8	WQ13	Surface		8/30/2017	4.61	0.0264	<0.0000050	0.000673	<0.00050	<0.30	0.821	<0.000050	2.84
L1988832-7	WQ13	Surface		9/9/2017	4.55	0.0243	<0.0000050	0.000662	<0.00050	<0.30	0.781	<0.000050	2.90

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					Magnesium (Mg)-Dissolved	Manganese (Mn)-Dissolved	Mercury (Hg)-Dissolved	Molybdenum (Mo)-Dissolved	Nickel (Ni)-Dissolved	Phosphorus (P)-Dissolved	Potassium (K)-Dissolved	Selenium (Se)-Dissolved	Silicon (Si)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2009845-1	WQ13	Surface		10/17/2017	4.14	0.0193	<0.000050	0.000624	<0.00050	<0.30	0.801	0.0000630	4.17
L2020333-1	WQ13	Surface		11/7/2017	4.05	0.0268	<0.000050	0.000538	<0.00050	<0.30	0.771	0.0000530	4.94
L2034610-4	WQ13	Surface		12/11/2017	4.54	0.0263	<0.000050	0.000596	<0.00050	<0.30	0.770	0.0000560	4.75
L2049224-3	WQ13	Surface		1/23/2018	4.71	0.0201	<0.000050	0.000520	<0.00050	<0.30	0.794	0.0000920	4.92
L2060442-3	WQ13	Surface		2/23/2018	5.06	0.0183	<0.000050	0.000535	<0.00050	<0.30	0.826	0.0000730	4.45
L2074294-7	WQ13	Surface		3/28/2018	5.05	0.000130	<0.000050	0.000652	<0.00050	<0.30	1.36	0.0000550	4.32
L2081505-5	WQ13	Surface		4/16/2018	5.06	0.0282	<0.000050	0.000659	<0.00050	<0.30	1.60	0.0000640	4.36
L2097084-4	WQ13	Surface		5/16/2018	3.17	0.00531	<0.000050	0.000460	<0.00050	<0.30	0.693	0.0000790	3.63
L2104479-4	WQ13	Surface		5/30/2018	3.93	0.00946	<0.000050	0.000515	<0.00050	<0.30	0.783	0.0000830	4.29
L2132986-1	WQ13	Surface		7/18/2018	4.21	0.0155	<0.000050	0.000606	<0.00050	<0.30	0.776	0.0000650	3.71
L2144782-5	WQ13	Surface		8/9/2018	4.23	0.0278	<0.000050	0.000661	<0.00050	<0.30	0.809	0.0000550	3.89
L2164448-1	WQ13	Surface		9/12/2018	4.39	0.0275	<0.000050	0.000650	<0.00050	<0.30	0.923	0.0000590	4.13
L2188218-5	WQ13	Surface		10/26/2018	4.32	0.0267	<0.000050	0.000582	<0.00050	<0.30	0.872	0.0000580	4.43
L2203408-5	WQ13	Surface		11/27/2018	3.92	0.0171	<0.000050	0.000481	<0.00050	<0.30	0.766	<0.000050	3.68
L2213684-4	WQ13	Surface		12/19/2018	4.30	0.0167	0.0000620	0.000545	<0.00050	<0.30	0.800	0.0000580	4.87
L2227101-4	WQ13	Surface		1/29/2019	4.89	0.0134	<0.000050	0.000575	<0.00050	<0.30	0.886	0.0000730	4.77
L2232050-7	WQ13	Surface		2/11/2019	4.66	0.0107	<0.000050	0.000583	<0.00050	<0.30	0.820	<0.000050	4.82
L2245144-2	WQ13	Surface		3/14/2019	5.15	0.0149	<0.000050	0.000576	<0.00050	<0.30	0.834	0.0000540	4.74
L2256054-4	WQ13	Surface		4/9/2019	3.79	0.0147	<0.000050	0.000782	<0.00050	<0.30	1.07	0.0000530	4.55
L2274397-3	WQ13	Surface		5/14/2019	3.60	0.00936	<0.000050	0.000508	<0.00050	<0.30	0.783	<0.000050	4.35
L2286702-4	WQ13	Surface		6/4/2019	3.94	0.0110	<0.000050	0.000524	<0.00050	<0.30	0.745	0.0000750	3.65
L2312637-2	WQ13	Surface		7/16/2019	4.04	0.0107	<0.000050	0.000569	<0.00050	<0.30	0.652	0.0000510	3.65
L2326388-5	WQ13	Surface		8/8/2019	3.73	0.0167	<0.000050	0.000573	<0.00050	<0.30	0.682	0.0000750	3.57
L2349445-4	WQ13	Surface		9/16/2019	4.25	0.0176	<0.000050	0.000645	<0.00050	<0.30	0.742	<0.000050	3.99
L2372667-4	WQ13	Surface		10/23/2019	3.66	0.0163	<0.000050	0.000523	<0.00050	<0.30	0.697	<0.000050	4.69
L2388381-4	WQ13	Surface		11/25/2019	3.77	0.0140	<0.000050	0.000539	<0.00050	<0.30	0.691	0.0000610	4.94
VA19A0791-005	WQ13	Surface	Dup	12/17/2019	4.41	0.0148	<0.000050	0.000573	<0.00050	<0.050	0.784	0.0000760	5.02
VA19A0791-004	WQ13	Surface		12/17/2019	4.38	0.0147	<0.000050	0.000557	<0.00050	<0.050	0.788	0.0000750	4.97
VA20A0960-004	WQ13	Surface		1/27/2020	4.68	0.0137	<0.000050	0.000536	<0.00050	<0.050	0.760	0.0000500	4.99
VA20A2126-003	WQ13	Surface		2/19/2020	4.46	0.0132	<0.000050	0.000561	<0.00050	<0.050	0.776	<0.000050	4.53
VA20A3691-001	WQ13	Surface		3/18/2020	4.79	0.0161	<0.000050	0.000606	<0.00050	<0.050	0.835	0.0000580	4.94
VA20A4555-005	WQ13	Surface		4/7/2020	4.93	0.0365	<0.000050	0.000656	<0.00050	<0.050	0.847	0.0000560	4.86
VA20A6218-004	WQ13	Surface		5/7/2020	3.72	0.0100	<0.000050	0.000495	<0.00050	<0.050	0.764	<0.000050	4.75
VA20A6356-003	WQ13	Surface		5/11/2020	3.47	0.0121	<0.000050	0.000476	<0.00050	<0.050	0.725	0.0000720	4.17
VA20A6869-003	WQ13	Surface		5/20/2020	3.40	0.00854	<0.000050	0.000513	<0.00050	<0.050	0.737	<0.000050	4.60
VA20A7367-003	WQ13	Surface		5/28/2020	3.31	0.0112	<0.000050	0.000523	<0.00050	<0.050	0.736	<0.000050	4.44
VA20A7797-003	WQ13	Surface		6/3/2020	3.79	0.0112	<0.000050	0.000492	<0.00050	<0.050	0.698	0.0000690	4.42
VA20B0021-003	WQ13	Surface		7/7/2020	3.70	0.0102	<0.000050	0.000579	<0.00050	0.0770	0.695	0.0000560	4.54
VA20B2156-003	WQ13	Surface		8/5/2020	4.17	0.0141	<0.000050	0.000592	<0.00050	<0.050	0.705	0.0000740	4.02
VA20B2542-004	WQ13	Surface		8/11/2020	4.22	0.0172	<0.000050	0.000605	<0.00050	<0.050	0.750	0.0000560	3.93
VA20B3218-002	WQ13	Surface		8/18/2020	3.84	0.0290	<0.000050	0.000628	<0.00050	<0.050	0.715	0.0000760	4.36
VA20B3860-003	WQ13	Surface		8/26/2020	4.23	0.0276	<0.000050	0.000652	<0.00050	<0.050	0.812	<0.000050	4.18
VA20B4313-003	WQ13	Surface		9/1/2020	3.93	0.0249	<0.000050	0.000651	<0.00050	<0.050	0.745	0.0000560	4.44
VA20B7828-003	WQ13	Surface		10/8/2020	4.29	0.0204	<0.000050	0.000634	<0.00050	<0.050	0.827	0.0000610	4.68

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					Magnesium (Mg)-Dissolved	Manganese (Mn)-Dissolved	Mercury (Hg)-Dissolved	Molybdenum (Mo)-Dissolved	Nickel (Ni)-Dissolved	Phosphorus (P)-Dissolved	Potassium (K)-Dissolved	Selenium (Se)-Dissolved	Silicon (Si)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
VA20C1281-002	WQ13	Surface	Dup	11/18/2020	3.78	0.0122	<0.000050	0.000541	<0.00050	<0.050	0.752	0.0000680	5.19
VA20C1281-001	WQ13	Surface		11/18/2020	3.76	0.0102	<0.000050	0.000571	<0.00050	<0.050	0.732	0.0000820	4.98
	WQ14	Surface		5/24/2011	2.23	0.0174	< 0.000008	0.000420	0.000370	0.0200	0.800	< 0.0006	4.72
	WQ14	Surface		5/30/2011	2.36	0.00571	< 0.000008	0.000400	0.000360	0.0100	0.600	< 0.0006	4.96
	WQ14	Surface		6/6/2011	2.81	0.00445	< 0.000008	0.000440	0.000330	< 0.01	0.600	< 0.0006	5.42
	WQ14	Surface		6/13/2011	3.21	0.00516	< 0.000008	0.000470	0.000290	< 0.01	0.500	< 0.0006	5.45
	WQ14	Surface	Dup	7/18/2011	3.44	0.00777	< 0.000008	0.000490	0.000280	< 0.01	< 0.5	< 0.0006	5.90
	WQ14	Surface		7/18/2011	3.45	0.00780	< 0.000008	0.000470	0.000300	< 0.01	< 0.5	< 0.0006	5.91
	WQ14	Surface		8/15/2011	5.02	0.0187	< 0.000008	0.000580	0.000220	< 0.01	0.500	< 0.0006	6.23
	WQ14	Surface		9/19/2011	5.67	0.0118	< 0.000008	0.000530	< 0.00005	< 0.01	0.700	< 0.0006	6.54
	WQ14	Surface		10/17/2011	5.15	0.0341	< 0.000008	0.000420	0.0000700	< 0.01	0.700	< 0.0006	6.43
	WQ14	Surface	Dup	11/14/2011	5.57	0.0181	< 0.000008	0.000500	0.000160	< 0.01	0.900	< 0.0006	6.65
	WQ14	Surface		11/14/2011	5.42	0.0176	< 0.000008	0.000510	0.000150	< 0.01	0.800	< 0.0006	6.78
	WQ14	Surface		12/13/2011	6.40	0.0683	< 0.000008	0.000610	0.0000800	< 0.01	1.00	< 0.0006	7.60
	WQ14	Surface	Dup	1/12/2012	4.61	0.0185	< 0.000008	0.000540	0.000200	0.0100	0.800	< 0.0006	6.10
	WQ14	Surface		1/12/2012	6.30	0.0772	< 0.000008	0.000650	0.000130	< 0.01	1.00	< 0.0006	8.61
	WQ14	Surface		4/17/2012	4.82	0.0654	< 0.000008	0.000580	0.000180	0.0200	1.90	< 0.0006	5.27
	WQ14	Surface		5/23/2012	3.01	0.00194	< 0.000005	0.000400	< 0.00005	< 0.01	0.600	< 0.0006	5.55
	WQ14	Surface		5/28/2012	2.90	0.00106	< 0.000005	0.000410	< 0.00005	< 0.01	0.600	< 0.0006	5.52
	WQ14	Surface	Dup	6/4/2012	3.00	0.00460	< 0.000005	0.000420	0.000230	< 0.01	0.500	< 0.0006	5.68
	WQ14	Surface		6/4/2012	3.01	0.00462	< 0.000005	0.000440	0.000210	< 0.01	0.500	< 0.0006	5.54
	WQ14	Surface		6/11/2012	3.29	0.00593	< 0.000005	0.000460	0.000250	< 0.01	0.500	< 0.0006	6.27
	WQ14	Surface		6/18/2012	3.64	0.00779	< 0.000005	0.000460	0.000220	< 0.01	< 0.5	< 0.0006	5.62
	WQ14	Surface		7/16/2012	4.97	0.00764	< 0.000005	0.000620	0.000230	< 0.01	< 0.5	< 0.0006	6.33
	WQ14	Surface		8/13/2012	5.67	0.0110	< 0.000005	0.000720	0.000260	< 0.01	0.600	< 0.0006	7.67
	WQ14	Surface		9/17/2012	6.05	0.00542	< 0.000005	0.000550	0.000200	< 0.01	0.600	< 0.0006	6.97
	WQ14	Surface		10/16/2012	5.80	0.00557	< 0.000005	0.000480	0.0000800	< 0.01	1.00	< 0.0006	6.27
	WQ14	Surface		11/12/2012	6.50	0.0199	< 0.000005	0.000430	0.0000800	< 0.01	1.00	< 0.0006	8.66
	WQ14	Surface		12/10/2012	8.47	0.0363	< 0.000005	0.000580	0.000300	0.0200	1.70	< 0.0006	8.16
	WQ14	Surface		4/16/2013	4.97	0.00419	< 0.000005	0.000600	0.000250	< 0.01	1.10	< 0.0001	4.76
	WQ14	Surface	Dup	5/14/2013	2.88	0.00239	< 0.000005	0.000400	0.000260	< 0.01	0.600	< 0.0001	4.40
	WQ14	Surface		5/14/2013	2.91	0.00257	< 0.000005	0.000400	0.000260	< 0.01	0.600	< 0.0001	4.30
	WQ14	Surface		5/21/2013	3.02	0.00442	< 0.000005	0.000400	0.000250	< 0.01	0.600	< 0.0001	3.79
	WQ14	Surface		5/28/2013	3.54	0.00158	< 0.000005	0.000220	< 0.00005	< 0.01	0.800	< 0.0001	5.05
	WQ14	Surface		6/4/2013	3.13	0.00265	< 0.000005	0.000370	0.000290	< 0.01	0.500	< 0.0001	5.43
	WQ14	Surface	Dup	6/11/2013	3.75	0.00504	< 0.000005	0.000440	0.000270	< 0.01	< 0.5	< 0.0001	4.19
	WQ14	Surface		6/11/2013	3.76	0.00504	< 0.000005	0.000430	0.000260	< 0.01	< 0.5	< 0.0001	4.24
	WQ14	Surface		6/18/2013	34.0	0.0183	< 0.000005	0.00422	0.00456	0.0300	< 0.5	< 0.0001	39.6
	WQ15	Surface		9/24/2012	1.10	0.0279	< 0.000005	0.000500	0.000100	< 0.01	< 0.5	< 0.0006	0.900
	WQ15	Surface		10/15/2012	1.14	0.0150	< 0.000005	0.000460	< 0.00005	< 0.01	< 0.5	< 0.0006	0.920
	WQ15	Surface		11/13/2012	1.15	0.00662	< 0.000005	0.000600	< 0.00005	< 0.01	< 0.5	< 0.0006	2.22
	WQ15	Surface		1/13/2013	1.32	0.0159	< 0.000005	0.000650	< 0.00005	< 0.01	< 0.5	< 0.0006	2.64
	WQ15	Surface		2/12/2013	1.25	0.0133	< 0.000005	0.000550	< 0.00005	< 0.01	< 0.5	< 0.0006	2.23
	WQ15	Surface		3/11/2013	1.23	0.0125	< 0.000005	0.000670	0.0000700	< 0.01	< 0.5	< 0.0006	1.90

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Magnesium (Mg)-Dissolved	Manganese (Mn)-Dissolved	Mercury (Hg)-Dissolved	Molybdenum (Mo)-Dissolved	Nickel (Ni)-Dissolved	Phosphorus (P)-Dissolved	Potassium (K)-Dissolved	Selenium (Se)-Dissolved	Silicon (Si)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ15	Surface		4/15/2013	1.10	0.00327	< 0.000005	0.000690	0.0000800	< 0.01	< 0.5	< 0.0001	1.63
	WQ15	Surface		5/13/2013	0.970	0.0157	< 0.000005	0.000500	0.0000700	< 0.01	< 0.5	< 0.0001	2.53
	WQ15	Surface		5/22/2013	3.38	0.0111	< 0.000005	0.000410	0.000240	0.0100	0.700	< 0.0001	3.33
	WQ15	Surface		5/27/2013	1.01	0.00535	< 0.000005	0.000150	< 0.00005	< 0.01	< 0.5	< 0.0001	2.43
	WQ15	Surface		6/6/2013	0.840	0.00421	< 0.000005	0.000460	0.0000600	< 0.01	< 0.5	< 0.0001	2.81
	WQ15	Surface		6/10/2013	0.840	0.00825	< 0.000005	0.000500	0.0000700	< 0.01	< 0.5	< 0.0001	2.00
	WQ15	Surface		6/17/2013	0.770	0.00822	< 0.000005	0.000460	0.0000500	< 0.01	< 0.5	< 0.0001	2.09
	WQ15	Surface		4/13/2014	1.09	0.00415	< 0.000005	0.000510	< 0.00005	< 0.01	< 0.5	< 0.0001	2.42
	WQ15	Surface		7/2/2014	0.980	0.0226	< 0.000005	0.000380	< 0.00005	< 0.01	< 0.5	< 0.0001	2.39
	WQ15	Surface		9/24/2014	1.36	0.0688	< 0.000005	0.000370	0.000120	< 0.01	< 0.5	< 0.0001	0.190
	WQ15	Surface		12/8/2014	1.13	0.00438	< 0.000005	0.000580	< 0.00005	< 0.01	< 0.5	< 0.0001	1.79
	WQ16	Surface		9/24/2012	1.13	0.0187	< 0.000005	0.000560	0.0000600	< 0.01	< 0.5	< 0.0006	1.04
	WQ16	Surface		10/15/2012	1.10	0.00653	< 0.000005	0.000490	< 0.00005	< 0.01	< 0.5	< 0.0006	0.740
	WQ16	Surface		11/13/2012	1.24	0.00525	< 0.000005	0.000730	< 0.00005	< 0.01	< 0.5	< 0.0006	1.52
	WQ16	Surface		1/13/2013	1.34	0.0239	< 0.000005	0.000750	< 0.00005	< 0.01	< 0.5	< 0.0006	1.71
	WQ16	Surface		2/12/2013	1.46	0.0384	< 0.000005	0.000710	< 0.00005	< 0.01	< 0.5	< 0.0006	1.64
	WQ16	Surface		3/11/2013	1.33	0.0553	< 0.000005	0.000840	0.0000800	0.0200	< 0.5	< 0.0006	1.48
	WQ16	Surface		4/15/2013	1.21	0.00683	< 0.000005	0.000830	0.0000500	< 0.01	< 0.5	< 0.0001	1.35
	WQ16	Surface		5/13/2013	1.12	0.00426	< 0.000005	0.000650	< 0.00005	< 0.01	< 0.5	< 0.0001	1.90
	WQ16	Surface		5/22/2013	0.840	0.00522	< 0.000005	0.000460	0.0000700	< 0.01	< 0.5	< 0.0001	2.08
	WQ16	Surface		5/27/2013	1.30	0.00546	< 0.000005	0.000340	< 0.00005	< 0.01	< 0.5	< 0.0001	1.55
	WQ16	Surface		6/6/2013	1.01	0.00226	< 0.000005	0.000630	< 0.00005	< 0.01	< 0.5	< 0.0001	1.83
	WQ16	Surface		6/10/2013	1.04	0.00277	< 0.000005	0.000710	< 0.00005	< 0.01	< 0.5	< 0.0001	1.39
	WQ16	Surface		6/17/2013	0.910	0.00194	< 0.000005	0.000600	< 0.00005	< 0.01	< 0.5	< 0.0001	1.54
	WQ16	Surface		4/13/2014	1.12	0.0151	< 0.000005	0.000780	< 0.00005	< 0.01	< 0.5	< 0.0001	1.42
	WQ16	Surface		7/2/2014	1.11	0.00862	< 0.000005	0.000580	< 0.00005	< 0.01	< 0.5	< 0.0001	1.91
	WQ16	Surface		9/24/2014	1.13	0.0144	< 0.000005	0.000340	0.000100	< 0.01	< 0.5	< 0.0001	2.49
	WQ16	Surface		12/8/2014	1.23	0.0118	< 0.000005	0.000810	< 0.00005	< 0.01	< 0.5	< 0.0001	1.82
	WQ17	Surface		12/12/2011	2.34	0.00790	< 0.000008	0.00179	< 0.00005	< 0.01	< 0.5	< 0.0006	6.11
	WQ17	Surface		3/12/2012	2.61	0.00649	< 0.000008	0.00213	0.000120	< 0.01	< 0.5	< 0.0006	6.77
	WQ17	Surface	Dup	6/18/2012	0.870	0.00335	< 0.000005	0.000240	0.000250	< 0.01	< 0.5	< 0.0006	4.40
	WQ17	Surface		6/18/2012	0.760	0.00242	< 0.000005	0.000560	0.000240	< 0.01	< 0.5	< 0.0006	4.17
	WQ17	Surface	Dup	9/17/2012	2.26	0.0137	< 0.000005	0.00191	0.000190	< 0.01	< 0.5	< 0.0006	6.15
	WQ17	Surface		9/17/2012	2.28	0.0139	< 0.000005	0.00165	0.000230	< 0.01	< 0.5	< 0.0006	6.43
	WQ17	Surface		1/13/2013	3.15	0.00940	< 0.000005	0.00212	0.0000800	< 0.01	< 0.5	< 0.0006	6.19
	WQ18	Surface		12/12/2011	8.00	0.00185	< 0.000008	0.000670	0.000370	0.0400	2.20	< 0.0006	10.8
	WQ18	Surface		3/12/2012	8.75	0.00393	< 0.000008	0.000660	0.000380	0.0400	2.50	< 0.0006	13.5
	WQ18	Surface		6/19/2012	5.32	0.00383	< 0.000005	0.000520	0.000630	0.0300	1.60	< 0.0006	8.50
	WQ18	Surface		9/18/2012	7.77	0.00296	< 0.000005	0.000790	0.000400	0.0300	2.10	< 0.0006	10.4
	WQ18	Surface		1/16/2013	9.21	0.00801	< 0.000005	0.000610	0.00118	0.0500	3.70	< 0.0006	11.9
	WQ19	Surface		6/18/2012	3.50	0.00136	< 0.000005	0.000610	< 0.00005	< 0.01	< 0.5	< 0.0006	5.06
	WQ19	Surface		9/17/2012	4.47	0.00157	< 0.000005	0.000750	< 0.00005	< 0.01	0.700	< 0.0006	6.53
	WQ19	Surface		12/10/2012	4.87	0.000660	< 0.000005	0.000630	< 0.00005	< 0.01	0.700	< 0.0006	6.87
	WQ26	Surface		1/13/2013	4.07	0.00409	< 0.000005	0.000810	< 0.00005	< 0.01	0.600	< 0.0006	7.14

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Magnesium (Mg)-Dissolved	Manganese (Mn)-Dissolved	Mercury (Hg)-Dissolved	Molybdenum (Mo)-Dissolved	Nickel (Ni)-Dissolved	Phosphorus (P)-Dissolved	Potassium (K)-Dissolved	Selenium (Se)-Dissolved	Silicon (Si)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ26	Surface		2/12/2013	3.91	0.00376	< 0.000005	0.000640	< 0.00005	< 0.01	0.600	< 0.0006	6.52
	WQ26	Surface		3/11/2013	4.05	0.00279	< 0.000005	0.000890	0.000120	< 0.01	0.700	< 0.0006	5.84
	WQ26	Surface		4/15/2013	3.06	0.00277	< 0.000005	0.000670	0.000160	< 0.01	0.500	< 0.0001	4.89
	WQ26	Surface		5/13/2013	0.920	0.00324	< 0.000005	0.000180	0.000300	0.0100	< 0.5	< 0.0001	3.53
	WQ26	Surface		5/22/2013	1.02	0.00278	< 0.000005	0.000650	< 0.00005	< 0.01	< 0.5	< 0.0001	1.42
	WQ26	Surface		5/27/2013	1.08	0.00276	< 0.000005	< 0.00005	< 0.00005	< 0.01	< 0.5	< 0.0001	3.93
	WQ26	Surface		6/6/2013	1.03	0.00259	< 0.000005	0.000220	0.000250	< 0.01	< 0.5	< 0.0001	4.47
	WQ26	Surface		6/10/2013	1.19	0.00308	< 0.000005	0.000280	0.000200	< 0.01	< 0.5	< 0.0001	3.60
	WQ26	Surface		6/17/2013	1.10	0.00103	< 0.000005	0.000250	0.000250	< 0.01	< 0.5	< 0.0001	3.48
L1762266-6	WQ26	Surface	Dup	4/27/2016	1.08	0.00270	0.0000100	0.000217	<0.00050	<0.30	0.372	<0.000050	4.96
L1762266-3	WQ26	Surface		4/27/2016	1.02	0.00241	0.0000110	0.000236	<0.00050	<0.30	0.357	0.0000540	5.02
L1764648-3	WQ26	Surface	Dup	5/3/2016	0.809	0.00166	0.0000100	0.000212	<0.00050	<0.30	0.278	0.0000560	5.13
L1764648-2	WQ26	Surface		5/3/2016	1.05	0.00206	0.00000900	0.000255	<0.00050	<0.30	0.333	<0.000050	5.28
L1767107-3	WQ26	Surface		5/9/2016	1.19	0.00223	0.0000100	0.000282	<0.00050	<0.30	0.306	0.0000560	5.36
L1770672-3	WQ26	Surface		5/16/2016	1.35	0.00240	0.00000700	0.000379	<0.00050	<0.30	0.348	<0.000050	5.61
L1774541-2	WQ26	Surface		5/25/2016	1.54	0.00260	<0.0000050	0.000418	<0.00050	<0.30	0.369	0.0000510	5.68
L1788643-2	WQ26	Surface		6/22/2016	1.23	0.00235	<0.0000050	0.000352	<0.00050	<0.30	0.310	<0.000050	5.43
L1808945-2	WQ26	Surface	Dup	8/3/2016	1.91	0.00442	<0.0000050	0.000445	<0.00050	<0.30	0.442	<0.000050	6.25
L1808945-6	WQ26	Surface		8/3/2016	2.02	0.00392	<0.0000050	0.000454	<0.00050	<0.30	0.457	<0.000050	6.32
L1812856-2	WQ26	Surface		8/10/2016	2.18	0.00407	<0.0000050	0.000496	<0.00050	<0.30	0.494	0.0000570	6.36
L1815654-2	WQ26	Surface		8/16/2016	2.52	0.00408	<0.0000050	0.000593	<0.00050	<0.30	0.532	<0.000050	6.42
L1819041-4	WQ26	Surface	Dup	8/23/2016	2.28	0.00316	<0.0000050	0.000565	<0.00050	<0.30	0.493	<0.000050	5.95
L1819041-8	WQ26	Surface		8/23/2016	2.26	0.00315	<0.0000050	0.000556	<0.00050	<0.30	0.487	<0.000050	5.95
L1823224-5	WQ26	Surface		8/31/2016	2.47	0.00314	<0.0000050	0.000606	<0.00050	<0.30	0.511	0.0000550	6.33
L1826303-5	WQ26	Surface		9/7/2016	1.99	0.00320	<0.0000050	0.000500	<0.00050	<0.30	0.445	0.0000530	5.79
L1913531-5	WQ26	Surface		4/12/2017	3.63	0.00392	<0.0000050	0.000786	<0.00050	<0.30	0.602	<0.000050	6.15
L1926080-2	WQ26	Surface		5/11/2017	1.37	0.00379	0.00000900	0.000220	<0.00050	<0.30	0.540	<0.000050	4.72
L1928943-5	WQ26	Surface	Dup	5/17/2017	1.14	0.00262	0.00000900	0.000206	<0.00050	<0.30	0.424	<0.000050	4.61
L1928943-1	WQ26	Surface		5/17/2017	1.14	0.00260	0.00000900	0.000210	<0.00050	<0.30	0.433	<0.000050	4.74
L1932034-3	WQ26	Surface		5/24/2017	0.869	0.00304	0.00000900	0.000188	<0.00050	<0.30	0.357	<0.000050	4.44
L1935151-5	WQ26	Surface	Dup	5/30/2017	0.736	0.00281	0.00000800	0.000196	<0.00050	<0.30	0.341	<0.000050	4.07
L1935151-1	WQ26	Surface		5/30/2017	0.723	0.00272	0.00000900	0.000201	<0.00050	<0.30	0.336	<0.000050	3.98
L1939712-4	WQ26	Surface	Dup	6/7/2017	1.08	0.00280	0.00000600	0.000248	<0.00050	<0.30	0.330	<0.000050	4.87
L1939712-3	WQ26	Surface		6/7/2017	1.09	0.00279	0.00000600	0.000270	<0.00050	<0.30	0.324	<0.000050	4.74
L1964508-1	WQ26	Surface		7/24/2017	2.64	0.00617	<0.0000050	0.000629	<0.00050	<0.30	0.521	<0.000050	6.00
L1984944-4	WQ26	Surface		8/30/2017	3.36	0.00327	<0.0000050	0.000834	<0.00050	<0.30	0.585	<0.000050	5.93
L1988190-3	WQ26	Surface		9/6/2017	3.55	0.00284	<0.0000050	0.000803	<0.00050	<0.30	0.619	<0.000050	6.14
L1991279-3	WQ26	Surface		9/13/2017	3.12	0.00357	<0.0000050	0.000761	<0.00050	<0.30	0.583	<0.000050	5.85
L1995655-1	WQ26	Surface		9/21/2017	2.77	0.00309	<0.0000050	0.000697	<0.00050	<0.30	0.509	<0.000050	5.78
L1999769-1	WQ26	Surface		9/28/2017	3.12	0.00307	<0.0000050	0.000715	<0.00050	<0.30	0.546	<0.000050	6.08
L2009845-5	WQ26	Surface		10/17/2017	1.76	0.00648	<0.0000050	0.000458	<0.00050	<0.30	0.457	0.0000530	5.80
L2020333-5	WQ26	Surface		11/7/2017	1.95	0.00310	<0.0000050	0.000452	<0.00050	<0.30	0.397	<0.000050	6.04
L2035356-3	WQ26	Surface		12/12/2017	2.39	0.00274	<0.0000050	0.000513	<0.00050	<0.30	0.447	<0.000050	6.01
L2049678-3	WQ26	Surface		1/24/2018	3.00	0.00266	<0.0000050	0.000655	<0.00050	<0.30	0.507	<0.000050	6.21

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					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2057605-1	WQ26	Surface		2/14/2018	2.94	0.00277	<0.0000050	0.000687	<0.00050	<0.30	0.509	<0.000050	6.23
L2074294-4	WQ26	Surface		3/28/2018	2.67	0.00234	<0.0000050	0.000741	<0.00050	<0.30	0.428	0.0000600	5.54
L2081503-5	WQ26	Surface		4/17/2018	3.40	0.00315	<0.0000050	0.000820	<0.00050	<0.30	0.525	0.0000710	6.01
L2097084-5	WQ26	Surface		5/16/2018	0.698	0.00271	0.00000990	0.000175	<0.00050	<0.30	0.303	<0.000050	3.86
L2103632-4	WQ26	Surface		5/29/2018	1.09	0.00250	0.00000550	0.000289	<0.00050	<0.30	0.328	<0.000050	4.98
L2132986-5	WQ26	Surface		7/18/2018	2.42	0.00322	<0.0000050	0.000663	<0.00050	<0.30	0.545	<0.000050	5.84
L2143640-4	WQ26	Surface	Dup	8/7/2018	2.46	0.00368	<0.0000050	0.000704	<0.00050	<0.30	0.560	<0.000050	5.99
L2143640-3	WQ26	Surface		8/7/2018	2.48	0.00350	<0.0000050	0.000631	<0.00050	<0.30	0.555	0.0000710	5.98
L2156026-1	WQ26	Surface		8/28/2018	3.01	0.00336	0.0000121	0.000857	<0.00050	<0.30	0.656	<0.000050	6.24
L2159605-1	WQ26	Surface		9/4/2018	3.17	0.00327	<0.0000050	0.000859	<0.00050	<0.30	0.557	0.0000570	5.85
L2160840-4	WQ26	Surface	Dup	9/7/2018	3.15	0.00315	<0.0000050	0.000878	<0.00050	<0.30	0.617	<0.000050	6.04
L2160840-1	WQ26	Surface		9/7/2018	3.11	0.00336	<0.0000050	0.000918	<0.00050	<0.30	0.594	<0.000050	6.05
L2163669-3	WQ26	Surface		9/11/2018	3.20	0.00300	<0.0000050	0.000869	<0.00050	<0.30	0.612	<0.000050	5.85
L2188218-4	WQ26	Surface		10/26/2018	2.50	0.00300	<0.0000050	0.000597	<0.00050	<0.30	0.446	<0.000050	6.22
L2203408-1	WQ26	Surface		11/27/2018	1.92	0.00250	<0.0000050	0.000420	<0.00050	<0.30	0.383	<0.000050	5.65
L2213246-2	WQ26	Surface		12/18/2018	2.52	0.00238	<0.0000050	0.000560	<0.00050	<0.30	0.431	0.0000720	5.98
L2227701-2	WQ26	Surface		1/30/2019	2.62	0.00263	<0.0000050	0.000672	<0.00050	<0.30	0.476	0.0000580	6.30
L2232050-1	WQ26	Surface		2/11/2019	3.02	0.00255	<0.0000050	0.000774	<0.00050	<0.30	0.474	<0.000050	6.42
L2244756-5	WQ26	Surface	Dup	3/13/2019	3.42	0.00268	<0.0000050	0.000790	<0.00050	<0.30	0.500	0.0000830	6.06
L2244756-2	WQ26	Surface		3/13/2019	3.41	0.00266	<0.0000050	0.000809	<0.00050	<0.30	0.503	0.0000640	6.18
L2256053-2	WQ26	Surface		4/8/2019	2.02	0.00232	<0.0000050	0.000563	<0.00050	<0.30	0.438	0.0000940	5.55
L2269368-2	WQ26	Surface		5/4/2019	1.38	0.00370	0.00000670	0.000295	<0.00050	<0.30	0.434	0.0000570	4.97
L2273497-4	WQ26	Surface		5/13/2019	0.974	0.00270	0.00000730	0.000249	<0.00050	<0.30	0.368	<0.000050	4.26
L2277964-7	WQ26	Surface		5/21/2019	0.961	0.00321	0.00000810	0.000192	<0.00050	<0.30	0.463	<0.000050	4.42
L2282975-2	WQ26	Surface		5/29/2019	1.16	0.00272	<0.0000050	0.000265	<0.00050	<0.30	0.339	0.0000670	5.07
L2285579-2	WQ26	Surface		6/3/2019	1.34	0.00306	<0.0000050	0.000306	<0.00050	<0.30	0.332	0.0000690	5.26
L2312637-3	WQ26	Surface		7/16/2019	1.45	0.00396	<0.0000050	0.000349	<0.00050	<0.30	0.253	<0.000050	6.02
L2326388-3	WQ26	Surface		8/8/2019	1.55	0.00432	<0.0000050	0.000383	<0.00050	<0.30	0.345	<0.000050	5.86
L2349445-7	WQ26	Surface	Dup	9/16/2019	2.25	0.00398	<0.0000050	0.000540	<0.00050	<0.30	0.435	<0.000050	5.95
L2349445-5	WQ26	Surface		9/16/2019	2.22	0.00389	<0.0000050	0.000534	<0.00050	<0.30	0.425	<0.000050	5.99
L2371052-6	WQ26	Surface	Dup	10/22/2019	1.66	0.00642	<0.0000050	0.000379	<0.00050	<0.30	0.447	<0.000050	5.93
L2371052-4	WQ26	Surface		10/22/2019	1.63	0.00676	<0.0000050	0.000380	<0.00050	<0.30	0.433	<0.000050	5.94
L2383392-2	WQ26	Surface		11/14/2019	1.41	0.00339	<0.0000050	0.000345	<0.00050	<0.30	0.312	<0.000050	5.96
VA19A0726-001	WQ26	Surface		12/16/2019	1.82	0.00300	<0.0000050	0.000421	<0.00050	<0.050	0.351	<0.000050	5.81
VA20A0688-002	WQ26	Surface		1/21/2020	2.43	0.00324	<0.0000050	0.000506	<0.00050	<0.050	0.418	0.0000650	6.56
VA20A1887-002	WQ26	Surface		2/13/2020	2.58	0.00295	<0.0000050	0.000608	<0.00050	<0.050	0.423	<0.000050	5.56
VA20A3516-002	WQ26	Surface		3/16/2020	3.01	0.00303	<0.0000050	0.000733	<0.00050	<0.050	0.498	<0.000050	6.56
VA20A4555-001	WQ26	Surface		4/7/2020	3.24	0.00291	<0.0000050	0.000765	<0.00050	<0.050	0.477	<0.000050	6.11
VA20A6574-003	WQ26	Surface		5/14/2020	0.909	0.00242	0.00000700	0.000225	<0.00050	<0.050	0.333	<0.000050	4.50
VA20B2156-002	WQ26	Surface		8/5/2020	2.28	0.00586	<0.0000050	0.000586	<0.00050	<0.050	0.468	<0.000050	6.08
VA20C1166-003	WQ26	Surface		11/17/2020	1.42	0.00345	<0.0000050	0.000340	<0.00050	<0.050	0.318	<0.000050	6.05
	WQ27	Surface		4/13/2014	2.56	0.00121	<0.000005	0.000740	<0.00005	<0.01	<0.5	<0.0001	5.05
	WQ27	Surface		7/2/2014	1.50	0.00220	<0.000005	0.000210	<0.00005	<0.01	<0.5	<0.0001	5.44
	WQ27	Surface		9/24/2014	3.48	0.00275	<0.000005	0.000960	0.0000900	<0.01	0.700	<0.0001	5.63

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Magnesium (Mg)-Dissolved	Manganese (Mn)-Dissolved	Mercury (Hg)-Dissolved	Molybdenum (Mo)-Dissolved	Nickel (Ni)-Dissolved	Phosphorus (P)-Dissolved	Potassium (K)-Dissolved	Selenium (Se)-Dissolved	Silicon (Si)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ27	Surface		12/9/2014	2.93	0.00180	<0.000005	0.000740	0.000110	<0.01	<0.5	<0.0001	6.21
L1762266-4	WQ27	Surface		4/27/2016	0.808	0.00226	0.0000110	0.000173	<0.00050	<0.30	0.318	0.0000540	4.89
L1764648-6	WQ27	Surface		5/3/2016	0.770	0.00156	0.00000900	0.000179	<0.00050	<0.30	0.270	<0.000050	5.10
L1767107-4	WQ27	Surface		5/9/2016	0.896	0.00175	0.0000100	0.000240	<0.00050	<0.30	0.253	<0.000050	5.28
L1770672-4	WQ27	Surface		5/16/2016	0.879	0.00156	0.00000800	0.000313	<0.00050	<0.30	0.251	<0.000050	5.42
L1774541-3	WQ27	Surface		5/25/2016	1.15	0.00174	<0.0000050	0.000368	<0.00050	<0.30	0.303	<0.000050	5.43
L1788643-6	WQ27	Surface	Dup	6/22/2016	0.981	0.00208	<0.0000050	0.000290	<0.00050	<0.30	0.236	<0.000050	5.27
L1788643-3	WQ27	Surface		6/22/2016	0.972	0.00196	<0.0000050	0.000292	<0.00050	<0.30	0.251	<0.000050	5.28
L1808945-3	WQ27	Surface		8/3/2016	1.46	0.00304	<0.0000050	0.000422	<0.00050	<0.30	0.339	<0.000050	6.07
L1812856-3	WQ27	Surface		8/10/2016	1.66	0.00290	<0.0000050	0.000452	<0.00050	<0.30	0.413	<0.000050	6.14
L1815654-3	WQ27	Surface		8/16/2016	2.02	0.00299	<0.0000050	0.000579	<0.00050	<0.30	0.451	0.0000550	6.24
L1819041-10	WQ27	Surface		8/23/2016	1.73	0.00275	<0.0000050	0.000549	<0.00050	<0.30	0.417	<0.000050	5.65
L1823224-6	WQ27	Surface		8/31/2016	1.87	0.00270	<0.0000050	0.000548	<0.00050	<0.30	0.426	<0.000050	6.27
L1826303-2	WQ27	Surface		9/7/2016	1.52	0.00249	<0.0000050	0.000428	<0.00050	<0.30	0.358	<0.000050	5.69
L1913006-2	WQ27	Surface		4/11/2017	2.84	0.00167	<0.0000050	0.000788	<0.00050	<0.30	0.455	0.0000540	6.33
L1925486-3	WQ27	Surface		5/10/2017	0.929	0.00456	0.0000100	0.000224	<0.00050	<0.30	0.512	<0.000050	4.84
L1928943-2	WQ27	Surface		5/17/2017	0.890	0.00284	0.0000100	0.000189	0.000580	<0.30	0.412	<0.000050	4.70
L1932034-2	WQ27	Surface		5/24/2017	0.728	0.00358	0.00000900	0.000175	<0.00050	<0.30	0.367	<0.000050	4.27
L1935151-2	WQ27	Surface		5/30/2017	0.593	0.00280	0.00000700	0.000170	<0.00050	<0.30	0.319	<0.000050	3.95
L1939712-2	WQ27	Surface		6/7/2017	0.831	0.00213	<0.0000050	0.000210	<0.00050	<0.30	0.289	<0.000050	4.62
L1961670-3	WQ27	Surface		7/18/2017	1.88	0.00286	<0.0000050	0.000557	<0.00050	<0.30	0.398	<0.000050	5.56
L1984944-3	WQ27	Surface		8/30/2017	2.97	0.00330	<0.0000050	0.000865	<0.00050	<0.30	0.509	0.0000570	5.56
L1988832-2	WQ27	Surface		9/8/2017	2.91	0.00303	<0.0000050	0.000852	<0.00050	<0.30	0.534	0.0000590	5.98
L1991279-2	WQ27	Surface	Dup	9/13/2017	2.59	0.00308	<0.0000050	0.000766	<0.00050	<0.30	0.495	0.0000500	5.68
L1991279-6	WQ27	Surface		9/13/2017	2.57	0.00309	<0.0000050	0.000747	<0.00050	<0.30	0.501	<0.000050	5.75
L1995655-2	WQ27	Surface		9/21/2017	2.10	0.00283	<0.0000050	0.000606	<0.00050	<0.30	0.430	<0.000050	5.68
L1999769-2	WQ27	Surface		9/28/2017	2.57	0.00252	<0.0000050	0.000707	<0.00050	<0.30	0.478	<0.000050	5.83
L2011329-3	WQ27	Surface		10/19/2017	1.53	0.00320	<0.0000050	0.000367	<0.00050	<0.30	0.381	<0.000050	5.63
L2020946-2	WQ27	Surface		11/8/2017	1.53	0.00201	<0.0000050	0.000407	<0.00050	<0.30	0.284	<0.000050	5.99
L2035356-2	WQ27	Surface		12/12/2017	1.77	0.00173	<0.0000050	0.000474	<0.00050	<0.30	0.357	0.0000550	6.00
L2049678-4	WQ27	Surface		1/24/2018	2.34	0.00159	<0.0000050	0.000597	<0.00050	<0.30	0.427	<0.000050	6.07
L2057605-2	WQ27	Surface		2/14/2018	2.37	0.00182	<0.0000050	0.000664	<0.00050	<0.30	0.442	<0.000050	6.03
L2074294-5	WQ27	Surface		3/28/2018	2.17	0.00132	<0.0000050	0.000753	<0.00050	<0.30	0.368	0.0000530	5.32
L2081503-6	WQ27	Surface		4/17/2018	2.52	0.00159	<0.0000050	0.000762	<0.00050	<0.30	0.426	0.0000690	5.72
L2093061-1	WQ27	Surface		5/9/2018	0.623	0.00156	0.00000940	0.000143	<0.00050	<0.30	0.438	<0.000050	4.18
L2097084-6	WQ27	Surface		5/16/2018	0.541	0.00262	0.00000980	0.000164	<0.00050	<0.30	0.262	<0.000050	3.76
L2100419-3	WQ27	Surface	Dup	5/23/2018	0.590	0.00213	0.00000730	0.000207	<0.00050	<0.30	0.223	<0.000050	4.37
L2100419-1	WQ27	Surface		5/23/2018	0.604	0.00213	0.00000880	0.000217	<0.00050	<0.30	0.227	<0.000050	4.38
L2103632-5	WQ27	Surface		5/29/2018	0.771	0.00229	<0.0000050	0.000259	<0.00050	<0.30	0.264	<0.000050	4.87
L2106738-3	WQ27	Surface	Dup	6/4/2018	0.855	0.00213	0.00000510	0.000260	<0.00050	<0.30	0.254	0.0000540	4.65
L2106738-1	WQ27	Surface		6/4/2018	0.862	0.00206	<0.0000050	0.000258	<0.00050	<0.30	0.256	<0.000050	4.72
L2132986-4	WQ27	Surface		7/18/2018	1.85	0.00266	<0.0000050	0.000666	<0.00050	<0.30	0.438	<0.000050	5.51
L2143640-8	WQ27	Surface		8/7/2018	2.02	0.00317	<0.0000050	0.000636	<0.00050	<0.30	0.460	0.0000540	5.78
L2156026-4	WQ27	Surface	Dup	8/28/2018	2.46	0.00287	0.00000740	0.000840	<0.00050	<0.30	0.550	0.0000550	5.92

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					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2156026-2	WQ27	Surface		8/28/2018	2.38	0.00427	0.00000860	0.000840	<0.00050	<0.30	0.548	0.0000650	5.66
L2159605-2	WQ27	Surface		9/4/2018	2.56	0.00273	<0.0000050	0.000811	<0.00050	<0.30	0.464	0.0000540	5.51
L2160840-2	WQ27	Surface		9/7/2018	2.58	0.00280	<0.0000050	0.000882	<0.00050	<0.30	0.514	<0.000050	5.86
L2163669-4	WQ27	Surface		9/11/2018	2.46	0.00262	<0.0000050	0.000805	<0.00050	<0.30	0.494	<0.000050	5.48
L2188218-3	WQ27	Surface		10/26/2018	1.88	0.00174	<0.0000050	0.000563	<0.00050	<0.30	0.364	<0.000050	5.79
L2204508-6	WQ27	Surface	Dup	11/29/2018	1.40	0.00164	<0.0000050	0.000432	<0.00050	<0.30	0.321	<0.000050	5.93
L2204508-4	WQ27	Surface		11/29/2018	1.43	0.00171	<0.0000050	0.000439	<0.00050	<0.30	0.325	0.0000500	6.00
L2213246-3	WQ27	Surface		12/18/2018	1.86	0.00136	<0.0000050	0.000544	<0.00050	<0.30	0.365	0.0000590	5.90
L2227701-3	WQ27	Surface		1/30/2019	2.07	0.00124	<0.0000050	0.000651	<0.00050	<0.30	0.394	0.0000740	6.26
L2232050-2	WQ27	Surface		2/11/2019	2.44	0.00119	<0.0000050	0.000726	<0.00050	<0.30	0.416	0.0000980	6.39
L2244756-3	WQ27	Surface		3/13/2019	2.71	0.00153	<0.0000050	0.000833	<0.00050	<0.30	0.423	0.0000660	5.84
L2256053-3	WQ27	Surface		4/8/2019	2.14	0.00182	<0.0000050	0.000558	<0.00050	<0.30	0.447	<0.000050	5.58
L2269368-3	WQ27	Surface		5/4/2019	1.04	0.00361	0.00000740	0.000245	<0.00050	<0.30	0.419	<0.000050	4.83
L2274397-1	WQ27	Surface		5/14/2019	0.805	0.00230	0.0000101	0.000198	<0.00050	<0.30	0.330	<0.000050	4.55
L2277964-6	WQ27	Surface		5/21/2019	0.685	0.00346	0.00000850	0.000163	<0.00050	<0.30	0.381	0.0000650	4.25
L2282975-3	WQ27	Surface		5/29/2019	0.804	0.00207	0.00000640	0.000258	<0.00050	<0.30	0.287	0.0000560	4.80
L2285579-3	WQ27	Surface		6/3/2019	0.969	0.00225	<0.0000050	0.000277	<0.00050	<0.30	0.282	0.0000570	5.14
L2312637-4	WQ27	Surface		7/16/2019	1.08	0.00291	<0.0000050	0.000283	<0.00050	<0.30	0.217	<0.000050	5.84
L2326388-2	WQ27	Surface		8/8/2019	1.17	0.00337	<0.0000050	0.000322	<0.00050	<0.30	0.293	<0.000050	5.78
L2350223-2	WQ27	Surface		9/17/2019	1.44	0.00323	<0.0000050	0.000492	<0.00050	<0.30	0.347	<0.000050	5.94
L2372667-2	WQ27	Surface		10/23/2019	1.16	0.00269	<0.0000050	0.000329	<0.00050	<0.30	0.282	<0.000050	5.75
L2383392-3	WQ27	Surface		11/14/2019	1.05	0.00223	<0.0000050	0.000310	<0.00050	<0.30	0.269	<0.000050	5.61
VA19A0726-002	WQ27	Surface		12/16/2019	1.41	0.00188	<0.0000050	0.000399	<0.00050	<0.050	0.307	<0.000050	5.74
VA20A0812-002	WQ27	Surface		1/23/2020	1.89	0.00170	<0.0000050	0.000556	<0.00050	<0.050	0.366	0.0000660	5.91
VA20A1887-005	WQ27	Surface		2/13/2020	2.15	0.00145	<0.0000050	0.000646	<0.00050	<0.050	0.382	<0.000050	5.65
VA20A3516-003	WQ27	Surface		3/16/2020	2.29	0.00162	<0.0000050	0.000763	<0.00050	<0.050	0.423	<0.000050	6.50
VA20A4369-002	WQ27	Surface		4/1/2020	2.49	0.00134	<0.0000050	0.000743	<0.00050	<0.050	0.429	0.0000530	6.04
L1913006-4	WQ28	Surface		4/11/2017	2.80	0.00211	<0.0000050	0.000765	<0.00050	<0.30	0.462	0.0000700	6.51
L1925486-2	WQ28	Surface		5/10/2017	0.885	0.00513	0.00000700	0.000215	<0.00050	<0.30	0.514	<0.000050	4.80
L1928943-3	WQ28	Surface		5/17/2017	0.900	0.00300	0.00000900	0.000203	<0.00050	<0.30	0.403	<0.000050	4.36
L1932034-4	WQ28	Surface	Dup	5/24/2017	0.733	0.00390	0.0000100	0.000171	<0.00050	<0.30	0.381	<0.000050	4.30
L1932034-1	WQ28	Surface		5/24/2017	0.688	0.00380	0.0000100	0.000209	0.000960	<0.30	0.341	<0.000050	4.22
L1935151-3	WQ28	Surface		5/30/2017	0.575	0.00298	0.00000900	0.000170	<0.00050	<0.30	0.314	<0.000050	3.95
L1939712-1	WQ28	Surface		6/7/2017	0.787	0.00238	0.00000700	0.000220	<0.00050	<0.30	0.278	<0.000050	4.52
L1961670-5	WQ28	Surface	Dup	7/18/2017	1.83	0.00239	<0.0000050	0.000566	<0.00050	<0.30	0.383	<0.000050	5.58
L1961670-4	WQ28	Surface		7/18/2017	1.81	0.00223	<0.0000050	0.000557	<0.00050	<0.30	0.378	<0.000050	5.51
L1984944-2	WQ28	Surface		8/30/2017	3.03	0.00202	<0.0000050	0.000900	<0.00050	<0.30	0.517	0.0000540	5.84
L1988832-3	WQ28	Surface		9/8/2017	2.84	0.00197	<0.0000050	0.000873	<0.00050	<0.30	0.513	0.0000610	6.14
L1991279-1	WQ28	Surface		9/13/2017	2.54	0.00226	<0.0000050	0.000756	<0.00050	<0.30	0.494	0.0000640	5.72
L1995655-3	WQ28	Surface	Dup	9/21/2017	1.98	0.00255	<0.0000050	0.000559	<0.00050	<0.30	0.419	0.0000560	5.71
L1995655-5	WQ28	Surface		9/21/2017	1.96	0.00262	<0.0000050	0.000550	<0.00050	<0.30	0.409	<0.000050	5.61
L1999769-3	WQ28	Surface	Dup	9/28/2017	2.55	0.00181	<0.0000050	0.000682	<0.00050	<0.30	0.474	<0.000050	6.00
L1999769-4	WQ28	Surface		9/28/2017	2.50	0.00184	<0.0000050	0.000682	<0.00050	<0.30	0.466	0.0000500	6.08
L2011329-4	WQ28	Surface		10/19/2017	1.45	0.00333	<0.0000050	0.000364	0.00116	<0.30	0.379	0.0000540	5.59

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					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2020946-3	WQ28	Surface		11/8/2017	1.45	0.00185	<0.0000050	0.000399	<0.00050	<0.30	0.272	<0.000050	6.05
L2035356-1	WQ28	Surface		12/12/2017	1.69	0.00179	<0.0000050	0.000508	<0.00050	<0.30	0.351	<0.000050	5.91
L2049678-5	WQ28	Surface		1/24/2018	2.43	0.00155	<0.0000050	0.000621	<0.00050	<0.30	0.431	0.0000680	6.12
L2057605-3	WQ28	Surface		2/14/2018	2.31	0.00156	<0.0000050	0.000640	<0.00050	<0.30	0.431	<0.000050	6.11
L2074294-6	WQ28	Surface		3/28/2018	2.25	0.00124	<0.0000050	0.000749	<0.00050	<0.30	0.378	0.0000570	5.70
L2081503-7	WQ28	Surface		4/17/2018	2.46	0.00161	<0.0000050	0.000735	<0.00050	<0.30	0.430	0.0000520	5.63
L2093061-3	WQ28	Surface	Dup	5/9/2018	0.587	0.00672	0.00000810	0.000138	<0.00050	<0.30	0.409	<0.000050	3.89
L2093061-2	WQ28	Surface		5/9/2018	0.593	0.00692	0.00000940	0.000132	<0.00050	<0.30	0.425	<0.000050	3.89
L2097084-7	WQ28	Surface		5/16/2018	0.516	0.00270	0.0000113	0.000155	<0.00050	<0.30	0.256	<0.000050	3.75
L2100419-2	WQ28	Surface		5/23/2018	0.598	0.00249	0.00000870	0.000219	<0.00050	<0.30	0.225	<0.000050	4.32
L2103632-6	WQ28	Surface		5/29/2018	0.750	0.00270	<0.0000050	0.000264	<0.00050	<0.30	0.254	<0.000050	4.66
L2106738-2	WQ28	Surface		6/4/2018	0.812	0.00262	0.00000570	0.000246	<0.00050	<0.30	0.244	<0.000050	4.80
L2132986-3	WQ28	Surface		7/18/2018	1.82	0.00236	<0.0000050	0.000627	<0.00050	<0.30	0.416	0.0000530	5.64
L2143640-7	WQ28	Surface		8/7/2018	1.95	0.00263	<0.0000050	0.000670	<0.00050	<0.30	0.434	0.0000760	5.79
L2156026-3	WQ28	Surface		8/28/2018	2.46	0.00222	0.00000970	0.000845	<0.00050	<0.30	0.547	0.0000630	5.97
L2159605-4	WQ28	Surface	Dup	9/4/2018	2.57	0.00225	<0.0000050	0.000838	<0.00050	<0.30	0.461	<0.000050	5.53
L2159605-3	WQ28	Surface		9/4/2018	2.59	0.00228	<0.0000050	0.000786	<0.00050	<0.30	0.468	0.0000600	5.54
L2160840-3	WQ28	Surface		9/7/2018	2.59	0.00213	<0.0000050	0.000897	<0.00050	<0.30	0.503	<0.000050	5.98
L2163669-5	WQ28	Surface		9/11/2018	2.53	0.00228	<0.0000050	0.000715	<0.00050	<0.30	0.490	0.0000670	5.88
L2188218-2	WQ28	Surface		10/26/2018	1.74	0.00187	<0.0000050	0.000527	<0.00050	<0.30	0.347	<0.000050	5.82
L2204508-5	WQ28	Surface		11/29/2018	1.32	0.00191	<0.0000050	0.000403	<0.00050	<0.30	0.300	<0.000050	5.87
L2213246-4	WQ28	Surface		12/18/2018	1.77	0.00160	<0.0000050	0.000546	<0.00050	<0.30	0.358	<0.000050	5.97
L2227701-4	WQ28	Surface		1/30/2019	2.03	0.00149	<0.0000050	0.000613	<0.00050	<0.30	0.408	<0.000050	6.28
L2232050-3	WQ28	Surface		2/11/2019	2.38	0.00135	<0.0000050	0.000704	<0.00050	<0.30	0.408	<0.000050	6.38
L2244756-4	WQ28	Surface		3/13/2019	2.81	0.00139	<0.0000050	0.000817	<0.00050	<0.30	0.442	0.0000790	6.07
L2256053-4	WQ28	Surface		4/8/2019	2.80	0.00326	<0.0000050	0.000608	<0.00050	<0.30	0.564	<0.000050	5.39
L2269368-4	WQ28	Surface		5/4/2019	1.04	0.00437	0.00000800	0.000233	<0.00050	<0.30	0.437	0.0000560	5.00
L2274397-2	WQ28	Surface		5/14/2019	0.806	0.00263	0.0000104	0.000210	<0.00050	<0.30	0.334	<0.000050	4.59
L2277964-8	WQ28	Surface	Dup	5/21/2019	0.679	0.00476	0.0000119	0.000143	<0.00050	<0.30	0.370	<0.000050	4.24
L2277964-5	WQ28	Surface		5/21/2019	0.666	0.00472	0.0000130	0.000194	<0.00050	<0.30	0.361	<0.000050	4.17
L2282975-6	WQ28	Surface	Dup	5/29/2019	0.811	0.00236	0.00000640	0.000207	<0.00050	<0.30	0.318	<0.000050	4.76
L2282975-4	WQ28	Surface		5/29/2019	0.787	0.00234	0.00000660	0.000232	<0.00050	<0.30	0.284	<0.000050	4.82
L2285579-4	WQ28	Surface		6/3/2019	0.935	0.00268	<0.0000050	0.000259	<0.00050	<0.30	0.278	0.0000790	4.99
L2312637-5	WQ28	Surface		7/16/2019	1.03	0.00346	<0.0000050	0.000294	<0.00050	<0.30	0.197	<0.000050	5.79
L2326388-4	WQ28	Surface		8/8/2019	1.09	0.00398	0.00000560	0.000340	<0.00050	<0.30	0.274	<0.000050	5.76
L2350223-3	WQ28	Surface		9/17/2019	1.48	0.00276	<0.0000050	0.000492	<0.00050	<0.30	0.349	0.0000630	6.00
L2372667-3	WQ28	Surface		10/23/2019	1.16	0.00282	<0.0000050	0.000315	<0.00050	<0.30	0.277	<0.000050	5.80
L2383392-4	WQ28	Surface		11/14/2019	1.01	0.00256	0.00000560	0.000308	<0.00050	<0.30	0.268	<0.000050	5.89
VA19A0726-003	WQ28	Surface		12/16/2019	1.37	0.00222	<0.0000050	0.000371	<0.00050	<0.050	0.300	<0.000050	6.02
VA20A0812-003	WQ28	Surface		1/23/2020	1.83	0.00204	<0.0000050	0.000547	<0.00050	<0.050	0.352	0.0000520	5.79
VA20A1887-004	WQ28	Surface		2/13/2020	1.95	0.00163	<0.0000050	0.000622	<0.00050	<0.050	0.352	<0.000050	5.53
VA20A3516-004	WQ28	Surface		3/16/2020	2.27	0.00170	<0.0000050	0.000770	<0.00050	<0.050	0.422	0.0000610	6.46
VA20A4369-003	WQ28	Surface		4/1/2020	2.45	0.00173	<0.0000050	0.000730	<0.00050	<0.050	0.431	0.0000630	6.10
VA20A6356-004	WQ28	Surface		5/11/2020	0.732	0.00280	<0.0000050	0.000178	<0.00050	<0.050	0.312	<0.000050	4.16

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					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
VA20B2426-005	WQ28	Surface		8/10/2020	1.44	0.00304	<0.0000050	0.000480	<0.00050	<0.050	0.318	0.0000530	5.88
VA20C0197-004	WQ28	Surface		11/4/2020	0.821	0.00407	0.00000630	0.000176	<0.00050	<0.050	0.316	<0.000050	5.31
L2238112-1	WQ29	Surface		2/26/2019	5.36	0.0308	<0.0000050	0.000694	<0.00050	<0.30	0.937	0.0000570	5.21
L2278768-1	WQ29	Surface		5/22/2019	3.02	0.0215	<0.0000050	0.000485	<0.00050	<0.30	0.918	0.0000840	4.56
L2325935-4	WQ29	Surface	Dup	8/7/2019	3.79	0.0181	<0.0000050	0.000641	<0.00050	<0.30	0.654	0.0000570	4.31
L2325935-2	WQ29	Surface		8/7/2019	3.86	0.0177	<0.0000050	0.000627	<0.00050	<0.30	0.636	<0.000050	4.36
L2388381-6	WQ29	Surface	Dup	11/25/2019	3.73	0.0232	<0.0000050	0.000528	<0.00050	<0.30	0.675	<0.000050	5.26
L2388381-5	WQ29	Surface		11/25/2019	3.81	0.0226	<0.0000050	0.000565	<0.00050	<0.30	0.682	<0.000050	5.47
VA20A1056-001	WQ29	Surface		1/28/2020	4.72	0.0236	<0.0000050	0.000635	<0.00050	<0.050	0.822	0.0000610	5.48
VA20A1776-001	WQ29	Surface		2/2/2020	4.94	0.0230	<0.0000050	0.000593	<0.00050	<0.050	0.835	0.0000750	5.23
VA20A3580-003	WQ29	Surface	Dup	3/17/2020	5.42	0.0214	<0.0000050	0.000698	<0.00050	<0.050	0.874	<0.000050	5.01
VA20A3580-001	WQ29	Surface		3/17/2020	5.36	0.0211	<0.0000050	0.000686	<0.00050	<0.050	0.886	<0.000050	5.16
VA20A4424-003	WQ29	Surface	Dup	4/2/2020	5.54	0.0294	<0.0000050	0.000787	<0.00050	<0.050	0.884	<0.000050	5.13
VA20A4424-001	WQ29	Surface		4/2/2020	5.32	0.0279	<0.0000050	0.000713	<0.00050	<0.050	0.906	0.0000610	4.94
VA20A6114-001	WQ29	Surface		5/6/2020	3.39	0.00726	<0.0000050	0.000444	<0.00050	<0.050	0.714	0.0000500	4.43
VA20A6503-001	WQ29	Surface		5/13/2020	3.56	0.0121	<0.0000050	0.000455	<0.00050	<0.050	0.724	0.0000820	4.40
VA20A6869-004	WQ29	Surface		5/20/2020	3.33	0.0144	<0.0000050	0.000512	<0.00050	<0.050	0.686	0.0000670	4.78
VA20A7367-004	WQ29	Surface		5/28/2020	3.23	0.0205	<0.0000050	0.000499	<0.00050	<0.050	0.688	0.0000500	4.64
VA20A7797-001	WQ29	Surface		6/3/2020	3.48	0.0221	<0.0000050	0.000567	<0.00050	<0.050	0.646	0.0000530	4.35
VA20B0021-001	WQ29	Surface		7/7/2020	3.84	0.0148	<0.0000050	0.000574	<0.00050	<0.050	0.635	<0.000050	4.81
VA20B2012-001	WQ29	Surface		8/4/2020	4.33	0.0233	<0.0000050	0.000770	<0.00050	<0.050	0.750	0.0000530	3.76
VA20B2542-001	WQ29	Surface		8/11/2020	4.47	0.0217	<0.0000050	0.000734	<0.00050	<0.050	0.753	0.0000610	3.95
VA20B3033-001	WQ29	Surface		8/17/2020	4.62	0.0196	<0.0000050	0.000875	<0.00050	<0.050	0.877	0.0000720	4.49
VA20B3860-001	WQ29	Surface		8/26/2020	4.94	0.0280	<0.0000050	0.000786	<0.00050	<0.050	0.914	0.0000740	4.31
VA20B4443-001	WQ29	Surface		9/2/2020	4.73	0.0224	<0.0000050	0.000883	<0.00050	<0.050	0.848	0.0000700	4.90
VA20B7828-004	WQ29	Surface	Dup	10/8/2020	5.01	0.0245	<0.0000050	0.000778	<0.00050	<0.050	0.924	<0.000050	4.60
VA20B7828-001	WQ29	Surface		10/8/2020	4.78	0.0242	<0.0000050	0.000771	<0.00050	<0.050	0.908	0.0000680	4.61
VA20B9945-001	WQ29	Surface		11/2/2020	3.12	0.0120	<0.0000050	0.000478	<0.00050	<0.050	0.811	0.0000860	5.42
	WQ3	Surface		5/17/2011	1.59	0.0105	0.00000900	0.000190	0.000250	0.0300	0.600	< 0.0006	5.53
	WQ3	Surface		5/25/2011	1.03	0.00282	0.0000100	0.000140	0.000270	0.0200	< 0.5	< 0.0006	4.73
	WQ3	Surface		5/31/2011	0.930	0.00164	< 0.000008	0.000160	0.000260	0.0200	< 0.5	< 0.0006	5.56
	WQ3	Surface		6/7/2011	1.11	0.00209	< 0.000008	0.000220	0.000230	0.0200	< 0.5	< 0.0006	5.48
	WQ3	Surface		6/14/2011	1.39	0.00269	< 0.000008	0.000280	0.000220	0.0200	< 0.5	< 0.0006	6.06
	WQ3	Surface		7/19/2011	1.67	0.00302	< 0.000008	0.000340	0.000140	0.0200	< 0.5	< 0.0006	6.26
	WQ3	Surface		8/16/2011	2.27	0.00391	< 0.000008	0.000470	0.0000800	0.0300	< 0.5	< 0.0006	7.57
	WQ3	Surface		9/20/2011	2.75	0.00366	< 0.000008	0.000690	< 0.00005	0.0300	< 0.5	< 0.0006	8.31
	WQ3	Surface		10/18/2011	2.71	0.00405	< 0.000008	0.000620	< 0.00005	0.0400	0.500	< 0.0006	8.28
	WQ3	Surface		11/15/2011	2.77	0.00484	< 0.000008	0.000670	0.0000700	0.0300	< 0.5	< 0.0006	7.97
	WQ3	Surface		12/12/2011	3.08	0.00355	< 0.000008	0.000740	< 0.00005	0.0400	< 0.5	< 0.0006	8.69
	WQ3	Surface		1/12/2012	3.06	0.00450	< 0.000008	0.000760	0.0000900	0.0400	0.600	< 0.0006	10.2
	WQ3	Surface		2/13/2012	2.98	< 0.000005	< 0.000008	0.000710	< 0.00005	0.0200	0.500	< 0.0006	8.54
	WQ3	Surface		3/12/2012	2.82	0.00248	< 0.000008	0.000670	< 0.00005	0.0400	0.500	< 0.0006	9.56
	WQ3	Surface		4/16/2012	3.22	0.00339	< 0.000008	0.000640	< 0.00005	0.0500	0.600	< 0.0006	8.21
	WQ3	Surface		5/14/2012	1.56	0.00456	< 0.000005	0.000280	0.000210	0.0200	0.500	< 0.0006	5.19

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					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ3	Surface		5/22/2012	1.29	0.00391	< 0.000005	0.000120	0.000190	0.0200	< 0.5	< 0.0006	5.54
	WQ3	Surface		5/29/2012	1.38	0.000570	< 0.000005	0.000210	< 0.00005	0.0200	< 0.5	< 0.0006	5.88
	WQ3	Surface		6/5/2012	1.41	0.00235	< 0.000005	0.000250	0.000190	0.0200	< 0.5	< 0.0006	6.32
	WQ3	Surface		6/12/2012	1.50	0.00278	< 0.000005	0.000280	0.000190	0.0200	< 0.5	< 0.0006	7.37
	WQ3	Surface		6/19/2012	1.76	0.00363	< 0.000005	0.000370	0.00280	0.0200	< 0.5	< 0.0006	6.50
	WQ3	Surface		7/17/2012	2.35	0.00391	< 0.000005	0.000580	0.0000900	0.0300	< 0.5	< 0.0006	7.66
	WQ3	Surface		8/14/2012	2.75	0.00462	< 0.000005	0.000660	0.000100	0.0400	0.600	< 0.0006	8.91
	WQ3	Surface		9/18/2012	2.90	0.00466	< 0.000005	0.000740	0.000100	0.0400	0.500	< 0.0006	8.54
	WQ3	Surface		10/15/2012	3.02	0.00440	< 0.000005	0.000690	< 0.00005	0.0400	0.600	< 0.0006	8.06
	WQ3	Surface		11/13/2012	3.18	0.00403	< 0.000005	0.000660	< 0.00005	0.0400	0.500	< 0.0006	8.93
	WQ3	Surface		12/10/2012	5.11	0.0338	< 0.000005	0.000760	0.000140	0.0100	0.800	< 0.0006	5.16
	WQ3	Surface		1/13/2013	3.26	0.00223	< 0.000005	0.000750	< 0.00005	0.0500	0.600	< 0.0006	8.79
	WQ3	Surface		2/12/2013	3.32	0.00314	< 0.000005	0.000680	< 0.00005	0.0500	0.600	< 0.0006	9.51
	WQ3	Surface		3/11/2013	3.35	0.00237	< 0.000005	0.000830	0.0000500	0.0500	0.600	< 0.0006	7.34
	WQ3	Surface		4/15/2013	2.90	0.00353	< 0.000005	0.000830	0.0000800	0.0400	0.500	< 0.0001	6.51
	WQ3	Surface		5/13/2013	1.48	0.00712	< 0.000005	0.000260	0.000390	0.0300	0.500	< 0.0001	4.43
	WQ3	Surface		5/22/2013	1.39	0.00256	< 0.000005	0.000250	0.000200	0.0200	< 0.5	< 0.0001	4.10
	WQ3	Surface		5/27/2013	1.54	0.00252	< 0.000005	< 0.00005	< 0.00005	< 0.01	< 0.5	< 0.0001	5.10
	WQ3	Surface		6/6/2013	1.39	0.00232	< 0.000005	0.000260	0.000300	0.0100	< 0.5	< 0.0001	5.84
	WQ3	Surface		6/10/2013	1.68	0.00316	< 0.000005	0.000330	0.000200	< 0.01	< 0.5	< 0.0001	4.83
	WQ3	Surface		6/17/2013	1.49	0.00110	< 0.000005	0.000270	0.00392	0.0100	< 0.5	< 0.0001	4.49
	WQ3	Surface	Dup	4/13/2014	2.85	0.00288	< 0.000005	0.000750	< 0.00005	0.0400	0.500	< 0.0001	7.18
	WQ3	Surface		4/13/2014	2.81	0.00285	< 0.000005	0.000740	< 0.00005	0.0400	0.500	< 0.0001	7.05
	WQ3	Surface		7/2/2014	2.47	0.00309	< 0.000005	0.000360	< 0.00005	0.300	< 0.5	< 0.0001	7.34
	WQ3	Surface		9/24/2014	3.34	0.00480	< 0.000005	0.000820	0.0000600	0.0500	1.00	< 0.0001	7.79
	WQ3	Surface		12/9/2014	3.19	0.00360	< 0.000005	0.000730	0.0000900	0.0500	0.600	< 0.0001	8.82
L1926080-7	WQ3	Surface		5/11/2017	2.02	0.00565	0.00000700	0.000310	< 0.00050	< 0.30	0.692	0.0000540	6.01
L1962414-1	WQ3	Surface		7/19/2017	1.74	0.00501	< 0.0000050	0.00119	< 0.00050	< 0.30	0.417	0.000130	7.99
L1988190-1	WQ3	Surface		9/6/2017	2.82	0.00745	< 0.0000050	0.00107	< 0.00050	< 0.30	0.548	0.000158	9.20
L2010514-1	WQ3	Surface		10/18/2017	2.35	0.00584	< 0.0000050	0.000641	< 0.00050	< 0.30	0.595	0.0000780	7.73
L2060442-1	WQ3	Surface		2/23/2018	3.05	0.00651	< 0.0000050	0.000761	< 0.00050	< 0.30	0.514	0.0000710	8.25
L2103632-1	WQ3	Surface		5/29/2018	1.49	0.00555	< 0.0000050	0.000507	< 0.00050	< 0.30	0.384	0.0000740	6.32
L2143640-2	WQ3	Surface		8/7/2018	2.64	0.00993	< 0.0000050	0.00101	< 0.00050	< 0.30	0.568	0.000111	7.75
L2204508-2	WQ3	Surface		11/29/2018	2.29	0.00655	< 0.0000050	0.000626	< 0.00050	< 0.30	0.454	0.0000530	7.64
L2232772-1	WQ3	Surface		2/12/2019	2.84	0.00443	< 0.0000050	0.000788	< 0.00050	< 0.30	0.521	0.0000560	8.41
L2273497-2	WQ3	Surface		5/13/2019	1.63	0.00491	< 0.0000050	0.000456	< 0.00050	< 0.30	0.521	0.0000510	5.65
L2328474-1	WQ3	Surface		8/12/2019	1.80	0.00693	< 0.0000050	0.000447	< 0.00050	< 0.30	0.388	0.0000950	7.58
L2385426-1	WQ3	Surface		11/18/2019	1.58	0.00547	< 0.0000050	0.000401	< 0.00050	< 0.30	0.368	0.0000700	7.23
VA20A1830-002	WQ3	Surface		2/12/2020	2.32	0.00788	< 0.0000050	0.000624	< 0.00050	< 0.050	0.466	0.0000520	8.25
VA20A6574-001	WQ3	Surface		5/14/2020	1.22	0.00260	0.00000560	0.000312	< 0.00050	< 0.050	0.374	0.0000590	5.43
VA20B2692-002	WQ3	Surface		8/12/2020	2.63	0.00671	< 0.0000050	0.000753	< 0.00050	< 0.050	0.470	< 0.000050	8.22
VA20C1166-001	WQ3	Surface		11/17/2020	1.79	0.00679	< 0.0000050	0.000435	< 0.00050	< 0.050	0.351	< 0.000050	7.01
L2239149-1	WQ30	Surface		2/28/2019	5.74	0.0282	< 0.0000050	0.000806	< 0.00050	< 0.30	0.955	0.0000640	5.35
L2278768-2	WQ30	Surface		5/22/2019	2.96	0.0231	< 0.0000050	0.000463	< 0.00050	< 0.30	0.939	< 0.000050	4.47

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Magnesium (Mg)-Dissolved	Manganese (Mn)-Dissolved	Mercury (Hg)-Dissolved	Molybdenum (Mo)-Dissolved	Nickel (Ni)-Dissolved	Phosphorus (P)-Dissolved	Potassium (K)-Dissolved	Selenium (Se)-Dissolved	Silicon (Si)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2325935-1	WQ30	Surface		8/7/2019	3.82	0.0188	<0.000050	0.000643	<0.00050	<0.30	0.654	0.0000800	4.24
L2385426-3	WQ30	Surface		11/18/2019	3.40	0.0155	<0.000050	0.000491	<0.00050	<0.30	0.639	0.0000520	5.20
VA20A1056-002	WQ30	Surface		1/28/2020	4.96	0.0228	<0.000050	0.000700	<0.00050	<0.050	0.838	0.0000640	5.78
VA20A1776-002	WQ30	Surface		2/2/2020	5.10	0.0211	<0.000050	0.000660	<0.00050	<0.050	0.840	0.0000530	5.53
VA20A3580-002	WQ30	Surface		3/17/2020	6.03	0.0190	<0.000050	0.000738	<0.00050	<0.050	0.934	0.0000690	5.41
VA20A4424-002	WQ30	Surface		4/2/2020	5.75	0.0311	<0.000050	0.000755	<0.00050	<0.050	0.959	<0.000050	5.18
VA20A6114-002	WQ30	Surface		5/6/2020	3.42	0.00736	<0.000050	0.000473	<0.00050	<0.050	0.732	0.0000710	4.39
VA20A6503-005	WQ30	Surface	Dup	5/13/2020	3.58	0.0121	<0.000050	0.000424	<0.00050	<0.050	0.731	0.0000630	4.31
VA20A6503-002	WQ30	Surface		5/13/2020	3.55	0.0119	<0.000050	0.000470	<0.00050	<0.050	0.732	0.0000720	4.32
VA20A6869-005	WQ30	Surface		5/20/2020	3.35	0.0155	<0.000050	0.000517	<0.00050	<0.050	0.683	0.0000570	4.66
VA20A7367-005	WQ30	Surface		5/28/2020	3.22	0.0239	<0.000050	0.000515	<0.00050	<0.050	0.694	0.0000630	4.54
VA20A7797-002	WQ30	Surface		6/3/2020	3.53	0.0278	<0.000050	0.000587	<0.00050	<0.050	0.649	<0.000050	4.42
VA20B0021-002	WQ30	Surface		7/7/2020	3.81	0.0182	<0.000050	0.000568	<0.00050	<0.050	0.620	0.0000730	4.83
VA20B2012-002	WQ30	Surface		8/4/2020	4.47	0.0242	<0.000050	0.000838	<0.00050	<0.050	0.768	<0.000050	4.04
VA20B2542-002	WQ30	Surface		8/11/2020	4.89	0.0219	<0.000050	0.000764	<0.00050	<0.050	0.786	0.0000540	4.12
VA20B3033-002	WQ30	Surface		8/17/2020	4.86	0.0169	<0.000050	0.000748	<0.00050	<0.050	0.779	0.0000530	4.60
VA20B3860-006	WQ30	Surface	Dup	8/26/2020	5.03	0.0220	<0.000050	0.000783	<0.00050	<0.050	0.861	0.0000730	4.22
VA20B3860-002	WQ30	Surface		8/26/2020	5.12	0.0225	<0.000050	0.000838	<0.00050	<0.050	0.892	0.0000580	4.17
VA20B4443-002	WQ30	Surface		9/2/2020	5.22	0.0203	<0.000050	0.000816	<0.00050	<0.050	0.821	0.0000890	4.27
VA20B7828-002	WQ30	Surface		10/8/2020	4.94	0.0227	<0.000050	0.000810	<0.00050	<0.050	0.884	0.0000680	4.62
VA20B9945-002	WQ30	Surface		11/2/2020	2.97	0.0106	<0.000050	0.000466	<0.00050	<0.050	0.803	0.0000520	5.28
VA20A0688-001	WQ31	Surface		1/21/2020	1.14	0.00238	<0.000050	0.000275	<0.00050	<0.050	0.198	<0.000050	6.39
VA20A1887-003	WQ31	Surface		2/13/2020	1.24	0.00203	<0.000050	0.000319	<0.00050	<0.050	0.204	<0.000050	5.37
VA20A3516-005	WQ31	Surface		3/16/2020	1.40	0.00210	<0.000050	0.000439	<0.00050	<0.050	0.239	<0.000050	6.30
VA20A4369-004	WQ31	Surface		4/1/2020	1.51	0.00206	<0.000050	0.000458	<0.00050	<0.050	0.246	<0.000050	5.74
VA20A6356-005	WQ31	Surface		5/11/2020	0.664	0.00198	<0.000050	0.0000810	<0.00050	<0.050	0.267	<0.000050	3.97
VA20A7672-005	WQ31	Surface	Dup	6/2/2020	0.718	0.00134	0.0000640	0.000107	<0.00050	<0.050	0.195	<0.000050	4.35
VA20A7672-001	WQ31	Surface		6/2/2020	0.733	0.00133	0.0000650	0.000109	<0.00050	<0.050	0.204	<0.000050	4.41
VA20A9918-004	WQ31	Surface		7/6/2020	0.852	0.00208	0.0000550	0.000130	<0.00050	<0.050	0.178	<0.000050	4.86
VA20B2426-002	WQ31	Surface		8/10/2020	1.03	0.00304	<0.000050	0.000203	<0.00050	<0.050	0.200	<0.000050	5.51
VA20B4313-004	WQ31	Surface	Dup	9/1/2020	1.11	0.00296	<0.000050	0.000248	<0.00050	<0.050	0.213	<0.000050	5.42
VA20B4313-002	WQ31	Surface		9/1/2020	1.19	0.00352	<0.000050	0.000288	<0.00050	<0.050	0.224	<0.000050	5.60
VA20B7624-005	WQ31	Surface		10/6/2020	1.35	0.00372	<0.000050	0.000266	<0.00050	<0.050	0.331	<0.000050	5.54
VA20C0197-001	WQ31	Surface		11/4/2020	0.756	0.00266	0.0000850	0.0000960	<0.00050	<0.050	0.213	<0.000050	5.19
	WQ4	Surface		5/17/2011	1.00	0.0107	0.0000800	< 0.00005	0.000290	0.0100	0.600	< 0.0006	4.11
	WQ4	Surface		5/24/2011	0.860	0.00794	< 0.00008	< 0.00005	0.000350	< 0.01	< 0.5	< 0.0006	4.11
	WQ4	Surface		5/30/2011	0.660	0.00522	< 0.00008	< 0.00005	0.000290	< 0.01	< 0.5	< 0.0006	3.78
	WQ4	Surface		6/6/2011	0.610	0.00310	< 0.00008	< 0.00005	0.000290	< 0.01	< 0.5	< 0.0006	3.70
	WQ4	Surface		6/13/2011	0.680	0.00134	< 0.00008	< 0.00005	0.000290	< 0.01	< 0.5	< 0.0006	4.08
	WQ4	Surface		7/18/2011	0.780	0.00160	< 0.00008	< 0.00005	0.000270	< 0.01	< 0.5	< 0.0006	4.46
	WQ4	Surface		8/15/2011	0.980	0.00500	< 0.00008	0.0000600	0.000190	< 0.01	< 0.5	< 0.0006	5.28
	WQ4	Surface		9/19/2011	1.15	0.0199	< 0.00008	0.000130	< 0.00005	< 0.01	< 0.5	< 0.0006	5.44
	WQ4	Surface		10/17/2011	1.08	0.00704	< 0.00008	0.0000600	0.000100	< 0.01	< 0.5	< 0.0006	5.51
	WQ4	Surface		11/14/2011	1.01	0.00265	< 0.00008	0.0000900	0.000150	< 0.01	< 0.5	< 0.0006	5.24

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					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ4	Surface	Dup	5/15/2012	0.910	0.0103	< 0.000005	< 0.00005	0.000330	0.0100	0.500	< 0.0006	4.52
	WQ4	Surface		5/15/2012	0.910	0.0106	< 0.000005	< 0.00005	0.000440	0.0100	0.500	< 0.0006	4.59
	WQ4	Surface		5/23/2012	0.880	0.00744	< 0.000005	< 0.00005	< 0.00005	0.0100	< 0.5	< 0.0006	4.70
	WQ4	Surface		5/28/2012	0.790	0.00159	< 0.000005	< 0.00005	< 0.00005	< 0.01	< 0.5	< 0.0006	4.60
	WQ4	Surface		6/4/2012	0.740	0.00459	< 0.000005	< 0.00005	0.000290	< 0.01	< 0.5	< 0.0006	4.44
	WQ4	Surface		6/11/2012	0.820	0.00360	< 0.000005	< 0.00005	0.000320	< 0.01	< 0.5	< 0.0006	5.20
	WQ4	Surface		6/18/2012	0.780	0.00135	< 0.000005	0.0000600	0.000280	< 0.01	< 0.5	< 0.0006	4.99
	WQ4	Surface		7/16/2012	1.01	0.0113	< 0.000005	0.000130	0.000220	< 0.01	< 0.5	< 0.0006	5.28
	WQ4	Surface		8/13/2012	1.25	0.0281	< 0.000005	0.000190	0.000290	< 0.01	< 0.5	< 0.0006	6.55
	WQ4	Surface		9/17/2012	1.25	0.0392	< 0.000005	0.000200	0.000200	< 0.01	< 0.5	< 0.0006	5.73
	WQ4	Surface		10/16/2012	1.71	0.0287	< 0.000005	0.000100	0.000400	< 0.01	< 0.5	< 0.0006	5.84
	WQ4	Surface		11/12/2012	2.05	0.0202	< 0.000005	0.0000900	0.000300	< 0.01	0.600	< 0.0006	6.01
	WQ4	Surface		12/10/2012	2.87	0.0101	< 0.000005	0.000160	0.000320	0.0100	0.700	< 0.0006	5.22
	WQ4	Surface		5/14/2013	0.890	0.00504	< 0.000005	0.0000600	0.000390	0.0100	0.800	< 0.0001	3.65
	WQ4	Surface		5/21/2013	0.910	0.00319	< 0.000005	0.0000600	0.000360	< 0.01	0.900	< 0.0001	3.29
	WQ4	Surface		5/28/2013	1.11	0.00278	< 0.000005	< 0.00005	< 0.00005	< 0.01	1.10	< 0.0001	4.17
	WQ4	Surface		6/4/2013	1.04	0.00232	< 0.000005	0.0000900	0.000330	< 0.01	0.900	< 0.0001	4.70
	WQ4	Surface		6/11/2013	1.22	0.00273	< 0.000005	0.0000900	0.000360	< 0.01	0.800	< 0.0001	3.73
	WQ4	Surface		6/18/2013	1.00	0.00117	< 0.000005	0.000100	0.000300	< 0.01	< 0.5	< 0.0001	3.49
L1925102-1	WQ4	Surface		5/9/2017	1.02	0.167	0.0000900	0.000103	<0.00050	<0.30	0.834	<0.000050	4.63
L1961670-1	WQ4	Surface		7/18/2017	1.62	0.0114	<0.0000050	0.000186	<0.00050	<0.30	0.291	<0.000050	4.94
L2011329-1	WQ4	Surface		10/19/2017	2.11	0.00326	<0.0000050	0.000120	<0.00050	<0.30	0.758	<0.000050	4.61
L2060101-1	WQ4	Surface		2/22/2018	2.72	0.00767	<0.0000050	0.000219	<0.00050	<0.30	0.444	<0.000050	5.68
L2102737-1	WQ4	Surface		5/28/2018	0.782	0.0109	<0.0000050	0.000167	0.000790	<0.30	0.286	<0.000050	4.15
L2144658-3	WQ4	Surface		8/8/2018	1.35	0.0133	<0.0000050	0.000171	<0.00050	<0.30	0.228	<0.000050	4.59
L2204086-2	WQ4	Surface		11/28/2018	1.07	0.00611	<0.0000050	0.0000820	<0.00050	<0.30	0.222	<0.000050	5.49
L2233329-1	WQ4	Surface		2/13/2019	1.26	0.00463	<0.0000050	0.000113	<0.00050	<0.30	0.241	<0.000050	6.11
L2275791-2	WQ4	Surface	Dup	5/16/2019	1.18	0.00397	<0.0000050	0.000130	<0.00050	<0.30	0.594	<0.000050	4.37
L2275791-1	WQ4	Surface		5/16/2019	1.13	0.00378	<0.0000050	0.000120	<0.00050	<0.30	0.548	<0.000050	4.32
L2329543-1	WQ4	Surface		8/13/2019	1.62	0.00292	<0.0000050	0.000162	<0.00050	<0.30	0.548	<0.000050	4.89
L2378996-2	WQ4	Surface		11/5/2019	1.59	0.00238	<0.0000050	0.000151	<0.00050	<0.30	0.564	<0.000050	5.15
VA20A2211-002	WQ4	Surface		2/20/2020	2.88	0.00103	<0.0000050	0.000262	<0.00050	<0.050	0.603	<0.000050	5.33
VA20A6810-002	WQ4	Surface		5/19/2020	0.850	0.00213	<0.0000050	0.000100	<0.00050	<0.050	0.457	<0.000050	3.80
VA20B2212-003	WQ4	Surface		8/6/2020	2.22	0.00339	<0.0000050	0.000220	<0.00050	<0.050	0.546	<0.000050	4.64
VA20C1415-002	WQ4	Surface		11/19/2020	1.36	0.00318	<0.0000050	0.000158	<0.00050	<0.050	0.335	<0.000050	4.99
	WQ5	Surface	Dup	5/17/2011	1.35	0.00938	0.0000170	0.0000600	0.000310	0.0100	< 0.5	< 0.0006	4.80
	WQ5	Surface		5/17/2011	1.33	0.00858	0.0000160	0.0000500	0.000290	0.0100	< 0.5	< 0.0006	4.50
	WQ5	Surface		5/25/2011	0.760	0.00274	0.00000800	< 0.00005	0.000210	< 0.01	< 0.5	< 0.0006	3.72
	WQ5	Surface		5/31/2011	0.630	0.00157	< 0.000008	< 0.00005	0.000200	< 0.01	< 0.5	< 0.0006	3.60
	WQ5	Surface		6/7/2011	0.630	0.00299	< 0.000008	< 0.00005	0.000200	< 0.01	< 0.5	< 0.0006	3.79
	WQ5	Surface		6/14/2011	0.690	0.00300	< 0.000008	0.0000800	0.000190	< 0.01	< 0.5	< 0.0006	3.88
	WQ5	Surface		7/19/2011	0.970	0.00387	< 0.000008	0.0000900	0.000260	< 0.01	< 0.5	< 0.0006	4.42
	WQ5	Surface		8/16/2011	1.33	0.00462	< 0.000008	0.000150	0.000140	< 0.01	< 0.5	< 0.0006	4.98
	WQ5	Surface		9/20/2011	2.26	0.00370	< 0.000008	0.000270	< 0.00005	< 0.01	< 0.5	< 0.0006	5.80

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					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ5	Surface		10/18/2011	1.81	0.00425	< 0.000008	0.000150	0.000100	< 0.01	< 0.5	< 0.0006	5.38
	WQ5	Surface		11/15/2011	1.89	0.00441	< 0.000008	0.000200	0.000200	< 0.01	< 0.5	< 0.0006	5.31
	WQ5	Surface		12/12/2011	2.50	0.00751	< 0.000008	0.000190	0.000140	< 0.01	< 0.5	< 0.0006	6.64
	WQ5	Surface		5/14/2012	0.880	0.00408	< 0.000005	0.0000800	0.000270	< 0.01	< 0.5	< 0.0006	3.98
	WQ5	Surface		5/22/2012	0.750	0.00257	< 0.000005	< 0.00005	0.000190	< 0.01	< 0.5	< 0.0006	4.12
	WQ5	Surface		5/29/2012	0.710	0.000240	< 0.000005	< 0.00005	< 0.00005	< 0.01	< 0.5	< 0.0006	4.19
	WQ5	Surface		6/5/2012	0.760	0.00197	< 0.000005	0.0000600	0.000190	< 0.01	< 0.5	< 0.0006	4.60
	WQ5	Surface		6/12/2012	0.850	0.00297	< 0.000005	0.0000600	0.000210	< 0.01	< 0.5	< 0.0006	4.71
	WQ5	Surface		6/19/2012	0.860	0.00293	< 0.000005	0.0000900	0.000190	< 0.01	< 0.5	< 0.0006	4.04
	WQ5	Surface		7/17/2012	1.34	0.00389	< 0.000005	0.000170	0.000140	< 0.01	< 0.5	< 0.0006	4.81
	WQ5	Surface		8/14/2012	1.64	0.00403	< 0.000005	0.000210	0.000160	< 0.01	< 0.5	< 0.0006	5.56
	WQ5	Surface		9/18/2012	2.06	0.00483	< 0.000005	0.000370	0.000160	< 0.01	< 0.5	< 0.0006	5.98
	WQ5	Surface		10/15/2012	2.55	0.00434	< 0.000005	0.000260	0.000100	< 0.01	< 0.5	< 0.0006	5.81
	WQ5	Surface		11/13/2012	2.27	0.00488	< 0.000005	0.000160	0.000190	< 0.01	< 0.5	< 0.0006	5.59
	WQ5	Surface		1/13/2013	3.41	0.0183	< 0.000005	0.000190	0.000210	< 0.01	< 0.5	< 0.0006	7.87
	WQ5	Surface		4/15/2013	2.02	0.00767	< 0.000005	0.000130	0.000290	< 0.01	< 0.5	< 0.0001	5.10
	WQ5	Surface		5/13/2013	0.750	0.00240	0.0000600	0.0000800	0.000210	0.0100	< 0.5	< 0.0001	3.11
	WQ5	Surface		5/22/2013	0.780	0.00231	< 0.000005	0.0000700	0.000190	< 0.01	< 0.5	< 0.0001	3.03
	WQ5	Surface		5/27/2013	0.940	0.00233	< 0.000005	< 0.00005	< 0.00005	< 0.01	< 0.5	< 0.0001	3.62
	WQ5	Surface		6/6/2013	0.860	0.00242	< 0.000005	0.0000800	0.000210	< 0.01	< 0.5	< 0.0001	4.17
	WQ5	Surface		6/10/2013	0.920	0.00292	< 0.000005	0.0000900	0.000160	< 0.01	< 0.5	< 0.0001	3.14
	WQ5	Surface		6/17/2013	0.860	0.00132	< 0.000005	0.0000900	0.000170	< 0.01	< 0.5	< 0.0001	3.23
	WQ5	Surface		4/13/2014	2.21	0.0120	<0.000005	0.000120	0.000210	<0.01	<0.5	<0.0001	5.34
	WQ5	Surface		7/2/2014	1.38	0.00327	<0.000005	<0.00005	<0.00005	<0.01	<0.5	<0.0001	4.25
	WQ5	Surface		9/24/2014	3.94	0.00858	<0.000005	0.000310	0.000150	<0.01	0.700	<0.0001	6.90
	WQ5	Surface		12/8/2014	2.80	0.00908	<0.000005	0.000120	0.000130	<0.01	<0.5	<0.0001	6.73
L1812856-8	WQ5	Surface		8/10/2016	1.45	0.00382	<0.0000050	0.000177	<0.00050	<0.30	0.248	<0.000050	5.46
L1815654-8	WQ5	Surface	Dup	8/16/2016	1.70	0.00361	<0.0000050	0.000202	<0.00050	<0.30	0.269	<0.000050	5.62
L1815654-6	WQ5	Surface		8/16/2016	1.72	0.00361	<0.0000050	0.000205	<0.00050	<0.30	0.267	<0.000050	5.70
L1819041-9	WQ5	Surface		8/23/2016	1.74	0.00338	<0.0000050	0.000216	<0.00050	<0.30	0.298	<0.000050	5.35
L1823224-1	WQ5	Surface	Dup	8/31/2016	1.48	0.00352	<0.0000050	0.000221	<0.00050	<0.30	0.299	<0.000050	4.96
L1823224-8	WQ5	Surface		8/31/2016	1.47	0.00325	<0.0000050	0.000212	<0.00050	<0.30	0.295	<0.000050	4.99
L1826303-4	WQ5	Surface		9/7/2016	1.26	0.00390	<0.0000050	0.000137	<0.00050	<0.30	0.217	<0.000050	4.52
L1925486-4	WQ5	Surface		5/10/2017	1.21	0.0122	0.00000700	0.000221	<0.00050	<0.30	0.601	<0.000050	4.86
L1962414-2	WQ5	Surface		7/19/2017	1.69	0.00471	<0.0000050	0.000211	<0.00050	<0.30	0.283	<0.000050	5.39
L1988190-2	WQ5	Surface		9/6/2017	1.96	0.00718	<0.0000050	0.000596	<0.00050	<0.30	0.427	0.0000970	6.76
L2010514-2	WQ5	Surface		10/18/2017	1.12	0.00513	<0.0000050	0.000134	<0.00050	<0.30	0.270	<0.000050	3.91
L2060442-2	WQ5	Surface		2/23/2018	2.60	0.0128	<0.0000050	0.000455	<0.00050	<0.30	0.470	<0.000050	7.48
L2103632-2	WQ5	Surface		5/29/2018	1.15	0.00947	<0.0000050	0.000337	<0.00050	<0.30	0.400	0.0000700	5.14
L2143640-1	WQ5	Surface		8/7/2018	2.17	0.0152	<0.0000050	0.000694	<0.00050	<0.30	0.486	0.0000930	5.70
L2204508-1	WQ5	Surface		11/29/2018	1.64	0.00891	0.00000630	0.000382	<0.00050	<0.30	0.367	<0.000050	6.47
L2232772-2	WQ5	Surface		2/12/2019	2.37	0.00982	<0.0000050	0.000596	<0.00050	<0.30	0.457	<0.000050	7.69
L2273497-3	WQ5	Surface		5/13/2019	0.938	0.00538	0.00000650	0.000186	<0.00050	<0.30	0.388	<0.000050	4.20
L2328474-2	WQ5	Surface		8/12/2019	1.21	0.00786	<0.0000050	0.000210	<0.00050	<0.30	0.264	0.0000790	5.71

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Magnesium (Mg)-Dissolved	Manganese (Mn)-Dissolved	Mercury (Hg)-Dissolved	Molybdenum (Mo)-Dissolved	Nickel (Ni)-Dissolved	Phosphorus (P)-Dissolved	Potassium (K)-Dissolved	Selenium (Se)-Dissolved	Silicon (Si)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2385426-2	WQ5	Surface		11/18/2019	0.977	0.00603	0.00000650	0.000161	<0.00050	<0.30	0.247	0.0000520	5.66
VA20A1830-001	WQ5	Surface		2/12/2020	1.97	0.00873	<0.0000050	0.000482	<0.00050	<0.050	0.393	<0.000050	7.35
VA20A6574-002	WQ5	Surface		5/14/2020	0.797	0.00303	0.00000600	0.000146	<0.00050	<0.050	0.293	<0.000050	4.29
VA20B2692-001	WQ5	Surface		8/12/2020	2.32	0.0141	<0.0000050	0.000642	<0.00050	<0.050	0.449	<0.000050	6.59
VA20C1166-002	WQ5	Surface		11/17/2020	1.53	0.0100	<0.0000050	0.000330	<0.00050	<0.050	0.342	<0.000050	6.29
	WQ6	Surface		5/17/2011	0.770	0.0123	< 0.000008	0.000200	0.000390	0.0100	0.600	< 0.0006	4.20
	WQ6	Surface		5/24/2011	0.560	0.00430	< 0.000008	0.000140	0.000400	< 0.01	< 0.5	< 0.0006	3.92
	WQ6	Surface		5/30/2011	< 0.50	0.00233	< 0.000008	0.000140	0.000370	< 0.01	< 0.5	< 0.0006	4.05
	WQ6	Surface		6/6/2011	< 0.50	0.00250	< 0.000008	0.000230	0.000300	< 0.01	< 0.5	< 0.0006	4.12
	WQ6	Surface		6/13/2011	0.520	0.00244	< 0.000008	0.000280	0.000290	< 0.01	< 0.5	< 0.0006	4.35
	WQ6	Surface		7/18/2011	0.620	0.00299	< 0.000008	0.000290	0.000330	< 0.01	< 0.5	< 0.0006	4.60
	WQ6	Surface	Dup	8/15/2011	0.770	0.00534	< 0.000008	0.000420	0.000150	< 0.01	< 0.5	< 0.0006	5.14
	WQ6	Surface		8/15/2011	0.770	0.00542	< 0.000008	0.000390	0.000170	< 0.01	< 0.5	< 0.0006	5.20
	WQ6	Surface		9/19/2011	0.990	0.00687	< 0.000008	0.000470	< 0.00005	< 0.01	< 0.5	< 0.0006	5.40
	WQ6	Surface		10/17/2011	0.920	0.00529	< 0.000008	0.000410	0.0000900	< 0.01	< 0.5	< 0.0006	5.57
	WQ6	Surface		11/14/2011	0.990	0.00598	< 0.000008	0.000400	0.000170	< 0.01	< 0.5	< 0.0006	5.36
	WQ6	Surface		4/17/2012	1.26	0.00912	< 0.000008	0.000410	0.000220	< 0.01	0.500	< 0.0006	4.99
	WQ6	Surface		5/15/2012	0.650	0.00484	< 0.000005	0.0000800	0.000370	< 0.01	< 0.5	< 0.0006	4.21
	WQ6	Surface		5/23/2012	0.650	0.00196	< 0.000005	0.000190	< 0.00005	< 0.01	< 0.5	< 0.0006	4.53
	WQ6	Surface		5/28/2012	0.610	0.000960	< 0.000005	0.000190	< 0.00005	< 0.01	< 0.5	< 0.0006	4.56
	WQ6	Surface		6/4/2012	0.580	0.00201	< 0.000005	0.000230	0.000280	< 0.01	< 0.5	< 0.0006	4.72
	WQ6	Surface		6/11/2012	0.540	0.00250	< 0.000005	0.000300	0.000290	< 0.01	< 0.5	< 0.0006	4.92
	WQ6	Surface		6/18/2012	0.560	0.00244	< 0.000005	0.000280	0.000240	< 0.01	< 0.5	< 0.0006	4.43
	WQ6	Surface		7/16/2012	0.770	0.00434	< 0.000005	0.000450	0.000110	< 0.01	< 0.5	< 0.0006	4.83
	WQ6	Surface		8/13/2012	0.950	0.00598	< 0.000005	0.000400	0.000200	< 0.01	< 0.5	< 0.0006	5.87
	WQ6	Surface		9/17/2012	1.10	0.00672	< 0.000005	0.000530	0.000160	< 0.01	< 0.5	< 0.0006	5.90
	WQ6	Surface		10/16/2012	1.16	0.00592	0.00000500	0.000430	0.0000800	< 0.01	< 0.5	< 0.0006	5.30
	WQ6	Surface		11/12/2012	1.20	0.00631	< 0.000005	0.000370	< 0.00005	< 0.01	< 0.5	< 0.0006	6.10
	WQ6	Surface		12/10/2012	1.40	0.00589	< 0.000005	0.000410	< 0.00005	< 0.01	< 0.5	< 0.0006	6.00
	WQ6	Surface		1/15/2013	1.29	0.00622	< 0.000005	0.000500	0.0000700	< 0.01	< 0.5	< 0.0006	6.26
	WQ6	Surface		2/13/2013	1.24	0.00511	< 0.000005	0.000470	< 0.00005	< 0.01	< 0.5	< 0.0006	6.26
	WQ6	Surface		3/12/2013	1.36	0.00432	< 0.000005	0.000580	0.000120	< 0.01	< 0.5	< 0.0006	4.81
	WQ6	Surface		4/16/2013	1.08	0.00525	< 0.000005	0.000510	0.000210	< 0.01	< 0.5	< 0.0001	4.24
	WQ6	Surface		5/14/2013	0.650	0.00289	< 0.000005	0.000250	0.000380	0.0100	< 0.5	< 0.0001	3.64
	WQ6	Surface		5/21/2013	0.570	0.00215	< 0.000005	0.000270	0.000270	< 0.01	< 0.5	< 0.0001	3.19
	WQ6	Surface		5/28/2013	0.710	0.00224	< 0.000005	< 0.00005	< 0.00005	< 0.01	< 0.5	< 0.0001	3.94
	WQ6	Surface		6/4/2013	0.610	0.00247	< 0.000005	0.000310	0.000280	< 0.01	< 0.5	< 0.0001	4.32
	WQ6	Surface		6/11/2013	0.640	0.00313	< 0.000005	0.000320	0.000220	< 0.01	< 0.5	< 0.0001	3.39
	WQ6	Surface		6/18/2013	0.650	0.00169	< 0.000005	0.000310	0.000290	< 0.01	< 0.5	< 0.0001	3.35
	WQ7	Surface		4/19/2011	4.07	0.0248	< 0.000008	0.000730	0.000100	< 0.01	0.600	< 0.0006	6.66
	WQ7	Surface		5/17/2011	1.39	0.0182	< 0.000008	0.000140	0.000360	0.0200	0.700	< 0.0006	4.52
	WQ7	Surface		5/24/2011	1.19	0.0102	< 0.000008	0.000150	0.000440	0.0100	0.500	< 0.0006	4.30
	WQ7	Surface		5/30/2011	1.12	0.00909	< 0.000008	0.000140	0.000430	0.0100	< 0.5	< 0.0006	4.30
	WQ7	Surface		6/6/2011	0.890	0.00719	< 0.000008	0.000150	0.000350	< 0.01	< 0.5	< 0.0006	4.11

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Magnesium (Mg)-Dissolved	Manganese (Mn)-Dissolved	Mercury (Hg)-Dissolved	Molybdenum (Mo)-Dissolved	Nickel (Ni)-Dissolved	Phosphorus (P)-Dissolved	Potassium (K)-Dissolved	Selenium (Se)-Dissolved	Silicon (Si)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ7	Surface		6/13/2011	1.01	0.00733	< 0.000008	0.000240	0.000310	< 0.01	< 0.5	< 0.0006	4.29
	WQ7	Surface		7/18/2011	1.64	0.00901	< 0.000008	0.000270	0.000410	< 0.01	< 0.5	< 0.0006	5.10
	WQ7	Surface		8/15/2011	2.34	0.0144	< 0.000008	0.000470	0.000190	< 0.01	< 0.5	< 0.0006	6.02
	WQ7	Surface	Dup	9/19/2011	3.23	0.0161	< 0.000008	0.000690	< 0.00005	< 0.01	0.500	< 0.0006	6.33
	WQ7	Surface		9/19/2011	3.25	0.0163	< 0.000008	0.000740	< 0.00005	< 0.01	0.500	< 0.0006	6.25
	WQ7	Surface	Dup	10/17/2011	2.74	0.0150	< 0.000008	0.000470	0.000160	< 0.01	0.500	< 0.0006	6.18
	WQ7	Surface		10/17/2011	2.74	0.0148	< 0.000008	0.000500	0.000130	< 0.01	< 0.5	< 0.0006	6.17
	WQ7	Surface		11/14/2011	2.99	0.0244	< 0.000008	0.000570	0.000180	< 0.01	< 0.5	< 0.0006	6.10
	WQ7	Surface	Dup	12/13/2011	3.38	0.0209	< 0.000008	0.000630	0.000100	< 0.01	< 0.5	< 0.0006	6.47
	WQ7	Surface		12/13/2011	3.38	0.0207	< 0.000008	0.000680	0.0000600	< 0.01	< 0.5	< 0.0006	6.53
	WQ7	Surface		1/12/2012	3.42	0.0166	< 0.000008	0.000660	0.000100	< 0.01	< 0.5	< 0.0006	7.28
	WQ7	Surface	Dup	2/13/2012	3.53	0.0132	< 0.000008	0.000730	0.000130	< 0.01	0.500	< 0.0006	6.45
	WQ7	Surface		2/13/2012	3.60	0.0139	< 0.000008	0.000710	0.000150	< 0.01	0.500	< 0.0006	6.50
	WQ7	Surface		3/12/2012	3.38	0.0150	< 0.000008	0.000660	0.000130	< 0.01	0.500	< 0.0006	6.56
	WQ7	Surface	Dup	4/17/2012	3.85	0.0147	< 0.000008	0.000510	0.000250	0.0200	1.50	< 0.0006	5.27
	WQ7	Surface		4/17/2012	3.75	0.0143	< 0.000008	0.000540	0.000270	0.0200	1.50	< 0.0006	4.99
	WQ7	Surface		5/15/2012	1.20	0.0116	0.0000120	0.000110	0.000490	0.0100	0.500	< 0.0006	4.58
	WQ7	Surface		5/23/2012	1.32	0.00625	< 0.000005	0.000200	< 0.00005	< 0.01	< 0.5	< 0.0006	4.95
	WQ7	Surface	Dup	5/28/2012	1.06	0.00537	< 0.000005	0.000180	0.000250	< 0.01	< 0.5	< 0.0006	4.65
	WQ7	Surface		5/28/2012	1.08	0.00591	< 0.000005	0.000170	0.000100	< 0.01	< 0.5	< 0.0006	4.69
	WQ7	Surface		6/4/2012	1.11	0.00628	< 0.000005	0.000200	0.000250	< 0.01	< 0.5	< 0.0006	4.72
	WQ7	Surface		6/11/2012	1.08	0.00611	< 0.000005	0.000200	0.000270	< 0.01	< 0.5	< 0.0006	5.02
	WQ7	Surface		6/18/2012	4.88	0.0107	< 0.000005	0.000300	0.00840	15.4	40.3	0.000900	4.93
	WQ7	Surface	Dup	7/16/2012	2.07	0.0104	< 0.000005	0.000460	0.000150	< 0.01	< 0.5	< 0.0006	5.82
	WQ7	Surface		7/16/2012	2.10	0.0107	< 0.000005	0.000470	0.000120	< 0.01	< 0.5	< 0.0006	5.86
	WQ7	Surface	Dup	8/13/2012	2.61	0.0190	< 0.000005	0.000940	0.000230	< 0.01	0.600	< 0.0006	6.91
	WQ7	Surface		8/13/2012	2.58	0.0188	< 0.000005	0.000550	0.000240	< 0.01	0.600	< 0.0006	6.70
	WQ7	Surface		9/17/2012	3.19	0.0238	< 0.000005	0.000730	0.000200	< 0.01	0.500	< 0.0006	6.40
	WQ7	Surface		10/16/2012	3.56	0.0222	< 0.000005	0.000650	0.0000900	< 0.01	0.600	< 0.0006	5.75
	WQ7	Surface	Dup	11/12/2012	3.71	0.0220	< 0.000005	0.000560	0.0000700	< 0.01	0.500	< 0.0006	6.77
	WQ7	Surface		11/12/2012	3.64	0.0218	< 0.000005	0.000570	0.0000700	< 0.01	0.500	< 0.0006	6.43
	WQ7	Surface		12/10/2012	3.98	0.0223	< 0.000005	0.000620	0.0000600	< 0.01	0.500	< 0.0006	6.48
	WQ7	Surface	Dup	1/15/2013	4.22	0.0245	< 0.000005	0.000730	0.000130	0.0200	0.600	< 0.0006	6.68
	WQ7	Surface		1/15/2013	4.21	0.0255	< 0.000005	0.000760	0.000130	0.0100	0.600	< 0.0006	6.05
	WQ7	Surface	Dup	2/13/2013	3.96	0.0202	< 0.000005	0.000670	< 0.00005	< 0.01	0.600	< 0.0006	6.17
	WQ7	Surface		2/13/2013	4.00	0.0261	< 0.000005	0.000690	0.000110	0.0100	1.00	< 0.0006	6.28
	WQ7	Surface		3/12/2013	4.25	0.0190	< 0.000005	0.000830	0.000160	< 0.01	0.600	< 0.0006	5.68
	WQ7	Surface	Dup	4/16/2013	3.74	0.0148	< 0.000005	0.000600	0.000250	< 0.01	0.700	< 0.0001	4.88
	WQ7	Surface		4/16/2013	3.82	0.0149	< 0.000005	0.000630	0.000260	< 0.01	0.700	< 0.0001	4.91
	WQ7	Surface		5/14/2013	1.07	0.00594	< 0.000005	0.000200	0.000300	0.0100	< 0.5	< 0.0001	3.72
	WQ7	Surface		5/21/2013	1.16	0.00543	< 0.000005	0.000240	0.000250	< 0.01	< 0.5	< 0.0001	3.38
	WQ7	Surface		5/28/2013	1.34	0.00345	< 0.000005	< 0.00005	< 0.00005	< 0.01	< 0.5	< 0.0001	4.00
	WQ7	Surface	Dup	6/4/2013	1.33	0.00616	< 0.000005	0.000220	0.000310	< 0.01	< 0.5	< 0.0001	4.66
	WQ7	Surface		6/4/2013	1.35	0.00600	< 0.000005	0.000230	0.000560	< 0.01	< 0.5	< 0.0001	4.74

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					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ7	Surface		6/11/2013	1.52	0.00712	< 0.000005	0.000300	0.000240	< 0.01	< 0.5	< 0.0001	3.70
	WQ7	Surface	Dup	6/18/2013	1.55	0.00479	< 0.000005	0.000260	0.000240	< 0.01	< 0.5	< 0.0001	3.56
	WQ7	Surface		6/18/2013	1.55	0.00469	< 0.000005	0.000240	0.000270	< 0.01	< 0.5	< 0.0001	3.63
	WQ7	Surface		4/13/2014	3.20	0.0146	<0.000005	0.000610	0.000230	0.0100	1.10	<0.0001	4.67
	WQ7	Surface		7/2/2014	2.36	0.00835	<0.000005	0.000280	<0.00005	<0.01	<0.5	<0.0001	5.77
	WQ7	Surface		9/24/2014	4.14	0.00955	<0.000005	0.000910	0.000160	<0.01	0.900	<0.0001	5.82
	WQ7	Surface		12/9/2014	3.84	0.0181	<0.000005	0.000690	0.000170	<0.01	0.600	<0.0001	6.31
L1812856-9	WQ7	Surface		8/10/2016	2.40	0.00618	<0.0000050	0.000499	<0.00050	<0.30	0.519	0.0000610	6.35
L1815654-9	WQ7	Surface		8/16/2016	2.70	0.00721	<0.0000050	0.000599	<0.00050	<0.30	0.556	0.0000530	6.43
L1819041-2	WQ7	Surface		8/23/2016	2.72	0.00591	<0.0000050	0.000593	<0.00050	<0.30	0.553	0.0000590	6.24
L1823224-2	WQ7	Surface		8/31/2016	2.73	0.00624	<0.0000050	0.000630	<0.00050	<0.30	0.561	0.0000650	6.23
L1826303-7	WQ7	Surface		9/7/2016	2.20	0.00570	<0.0000050	0.000498	<0.00050	<0.30	0.437	<0.000050	5.77
L1913531-3	WQ7	Surface		4/12/2017	3.90	0.00737	<0.0000050	0.000635	<0.00050	<0.30	0.787	0.0000510	5.84
L1926080-8	WQ7	Surface	Dup	5/11/2017	1.50	0.00422	0.00000900	0.000232	<0.00050	<0.30	0.508	<0.000050	4.70
L1926080-4	WQ7	Surface		5/11/2017	1.59	0.00455	0.00000800	0.000259	<0.00050	<0.30	0.542	0.0000570	4.72
L1939712-7	WQ7	Surface		6/7/2017	1.28	0.00462	0.00000600	0.000284	<0.00050	<0.30	0.371	0.0000550	5.04
L1962414-3	WQ7	Surface		7/19/2017	2.56	0.0123	<0.0000050	0.000582	<0.00050	<0.30	0.496	<0.000050	5.79
L1984944-5	WQ7	Surface		8/30/2017	3.50	0.0177	<0.0000050	0.000847	<0.00050	<0.30	0.641	0.0000500	6.00
L1988832-4	WQ7	Surface		9/9/2017	3.61	0.0159	<0.0000050	0.000808	<0.00050	<0.30	0.642	<0.000050	6.17
L2009845-2	WQ7	Surface		10/17/2017	2.54	0.0129	<0.0000050	0.000581	<0.00050	<0.30	0.558	0.0000780	5.87
L2020333-6	WQ7	Surface	Dup	11/7/2017	2.19	0.0110	<0.0000050	0.000452	<0.00050	<0.30	0.430	0.0000510	6.21
L2020333-2	WQ7	Surface		11/7/2017	2.16	0.0113	<0.0000050	0.000482	<0.00050	<0.30	0.437	<0.000050	6.10
L2034610-2	WQ7	Surface		12/11/2017	2.42	0.0105	0.0000104	0.000544	<0.00050	<0.30	0.427	<0.000050	6.10
L2049678-1	WQ7	Surface		1/24/2018	3.15	0.0142	<0.0000050	0.000669	<0.00050	<0.30	0.504	<0.000050	6.22
L2062480-2	WQ7	Surface		2/28/2018	3.54	0.0145	<0.0000050	0.000714	<0.00050	<0.30	0.503	0.0000510	6.41
L2074294-1	WQ7	Surface		3/28/2018	2.91	0.0144	<0.0000050	0.000717	<0.00050	<0.30	0.478	<0.000050	5.51
L2081503-1	WQ7	Surface		4/17/2018	3.76	0.0158	<0.0000050	0.000714	<0.00050	<0.30	0.613	<0.000050	5.94
L2097084-8	WQ7	Surface	Dup	5/16/2018	0.820	0.00567	0.0000101	0.000210	<0.00050	<0.30	0.322	0.0000630	3.95
L2097084-1	WQ7	Surface		5/16/2018	0.806	0.00546	0.00000930	0.000210	<0.00050	<0.30	0.326	<0.000050	3.82
L2104479-1	WQ7	Surface		5/30/2018	1.40	0.00541	0.00000630	0.000344	<0.00050	<0.30	0.333	<0.000050	5.52
L2132128-7	WQ7	Surface	Dup	7/17/2018	2.56	0.00678	0.00000780	0.000663	0.000520	<0.30	0.538	<0.000050	5.86
L2132128-1	WQ7	Surface		7/17/2018	2.56	0.00618	0.00000580	0.000690	<0.00050	<0.30	0.569	<0.000050	5.71
L2144782-2	WQ7	Surface		8/9/2018	2.85	0.00932	<0.0000050	0.000743	<0.00050	<0.30	0.639	0.0000580	6.22
L2164448-4	WQ7	Surface	Dup	9/12/2018	3.37	0.0105	<0.0000050	0.000792	<0.00050	<0.30	0.649	<0.000050	6.00
L2164448-3	WQ7	Surface		9/12/2018	3.28	0.0104	<0.0000050	0.000819	<0.00050	<0.30	0.630	<0.000050	5.97
L2187638-4	WQ7	Surface	Dup	10/24/2018	2.51	0.00732	0.00000690	0.000596	<0.00050	<0.30	0.456	<0.000050	5.87
L2187638-3	WQ7	Surface		10/24/2018	2.48	0.00726	<0.0000050	0.000566	<0.00050	<0.30	0.437	<0.000050	5.83
L2203408-2	WQ7	Surface		11/27/2018	2.23	0.00601	<0.0000050	0.000443	<0.00050	<0.30	0.403	<0.000050	5.71
L2213684-1	WQ7	Surface		12/19/2018	2.54	0.00728	0.00000550	0.000580	<0.00050	<0.30	0.432	<0.000050	6.24
L2227101-6	WQ7	Surface	Dup	1/29/2019	3.21	0.0124	<0.0000050	0.000699	<0.00050	<0.30	0.490	<0.000050	6.29
L2227101-1	WQ7	Surface		1/29/2019	3.21	0.0122	<0.0000050	0.000721	<0.00050	<0.30	0.493	<0.000050	6.35
L2232050-4	WQ7	Surface		2/11/2019	3.19	0.00965	<0.0000050	0.000684	<0.00050	<0.30	0.472	0.0000520	6.48
L2245144-4	WQ7	Surface		3/14/2019	3.98	0.0105	<0.0000050	0.000754	<0.00050	<0.30	0.503	<0.000050	6.16
L2256054-1	WQ7	Surface		4/9/2019	3.32	0.00946	0.00000540	0.000530	<0.00050	<0.30	0.723	<0.000050	5.68

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Magnesium (Mg)-Dissolved	Manganese (Mn)-Dissolved	Mercury (Hg)-Dissolved	Molybdenum (Mo)-Dissolved	Nickel (Ni)-Dissolved	Phosphorus (P)-Dissolved	Potassium (K)-Dissolved	Selenium (Se)-Dissolved	Silicon (Si)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2269368-6	WQ7	Surface	Dup	5/4/2019	1.62	0.00542	0.0000520	0.000319	<0.00050	<0.30	0.448	<0.000050	5.28
L2269368-1	WQ7	Surface		5/4/2019	1.64	0.00527	0.0000550	0.000352	<0.00050	<0.30	0.433	<0.000050	5.20
L2277964-4	WQ7	Surface		5/21/2019	0.986	0.00946	0.0000129	0.000201	<0.00050	<0.30	0.495	0.0000710	4.19
L2282191-2	WQ7	Surface		5/28/2019	1.49	0.00418	0.0000740	0.000304	<0.00050	<0.30	0.363	<0.000050	5.06
L2282975-1	WQ7	Surface		5/29/2019	1.55	0.00490	0.0000540	0.000322	<0.00050	<0.30	0.384	<0.000050	5.26
L2286702-5	WQ7	Surface	Dup	6/4/2019	1.63	0.00555	<0.000050	0.000336	<0.00050	<0.30	0.398	0.0000590	5.68
L2286702-1	WQ7	Surface		6/4/2019	1.62	0.00554	0.0000510	0.000355	<0.00050	<0.30	0.402	<0.000050	5.55
L2313851-2	WQ7	Surface		7/18/2019	1.55	0.00607	<0.000050	0.000314	<0.00050	<0.30	0.293	<0.000050	5.79
L2328474-3	WQ7	Surface		8/12/2019	1.66	0.00611	<0.000050	0.000369	<0.00050	<0.30	0.347	0.0000890	6.14
L2349445-1	WQ7	Surface		9/16/2019	2.68	0.00933	<0.000050	0.000581	<0.00050	<0.30	0.466	<0.000050	6.19
L2371052-1	WQ7	Surface		10/22/2019	2.05	0.00791	<0.000050	0.000388	<0.00050	<0.30	0.433	<0.000050	6.09
L2388381-1	WQ7	Surface		11/25/2019	1.67	0.00631	<0.000050	0.000342	<0.00050	<0.30	0.306	<0.000050	6.17
VA19A0791-001	WQ7	Surface		12/17/2019	2.09	0.00713	<0.000050	0.000460	<0.00050	<0.050	0.386	0.0000550	6.23
VA20A0960-001	WQ7	Surface		1/27/2020	3.07	0.00902	<0.000050	0.000534	<0.00050	<0.050	0.418	0.0000560	6.45
VA20A2126-004	WQ7	Surface		2/19/2020	3.13	0.0101	<0.000050	0.000690	<0.00050	<0.050	0.450	0.0000610	5.81
VA20A3691-002	WQ7	Surface		3/18/2020	3.63	0.0105	<0.000050	0.000674	<0.00050	<0.050	0.496	<0.000050	6.49
VA20A4555-002	WQ7	Surface		4/7/2020	3.80	0.0107	<0.000050	0.000694	<0.00050	<0.050	0.490	<0.000050	6.22
VA20A6218-002	WQ7	Surface		5/7/2020	1.41	0.00393	<0.000050	0.000244	<0.00050	<0.050	0.413	<0.000050	5.11
VA20A6503-003	WQ7	Surface		5/13/2020	1.15	0.00439	0.0000620	0.000241	<0.00050	<0.050	0.361	0.0000560	4.48
VA20A6869-001	WQ7	Surface		5/20/2020	0.997	0.00417	0.0000730	0.000259	<0.00050	<0.050	0.311	<0.000050	4.62
VA20A7367-001	WQ7	Surface		5/28/2020	1.04	0.0144	<0.000050	0.000277	<0.00050	<0.050	0.306	<0.000050	4.66
VA20A7672-004	WQ7	Surface		6/2/2020	1.17	0.00528	<0.000050	0.000283	<0.00050	<0.050	0.310	<0.000050	4.72
VA20A9918-005	WQ7	Surface	Dup	7/6/2020	1.86	0.00557	<0.000050	0.000346	<0.00050	<0.050	0.364	0.0000510	5.46
VA20A9918-001	WQ7	Surface		7/6/2020	1.82	0.00548	<0.000050	0.000359	<0.00050	<0.050	0.353	<0.000050	5.36
VA20B2156-004	WQ7	Surface		8/5/2020	2.73	0.00974	<0.000050	0.000566	<0.00050	<0.050	0.487	0.0000980	6.46
VA20B2542-005	WQ7	Surface	Dup	8/11/2020	2.64	0.00833	<0.000050	0.000554	<0.00050	<0.050	0.477	<0.000050	5.73
VA20B2542-003	WQ7	Surface		8/11/2020	2.61	0.00840	<0.000050	0.000540	<0.00050	<0.050	0.477	0.0000830	5.87
VA20B3218-001	WQ7	Surface		8/18/2020	2.57	0.00932	<0.000050	0.000594	<0.00050	<0.050	0.493	<0.000050	6.13
VA20B3609-002	WQ7	Surface		8/24/2020	2.63	0.00762	<0.000050	0.000583	<0.00050	<0.050	0.453	0.0000800	5.92
VA20B4443-003	WQ7	Surface		9/2/2020	2.73	0.00779	<0.000050	0.000644	<0.00050	<0.050	0.488	<0.000050	6.63
VA20B7624-001	WQ7	Surface		10/6/2020	2.91	0.00934	<0.000050	0.000591	<0.00050	<0.050	0.566	<0.000050	5.86
VA20C0298-001	WQ7	Surface		11/5/2020	1.55	0.00513	0.0000600	0.000267	<0.00050	<0.050	0.325	<0.000050	5.48
	WQ8	Surface		4/19/2011	4.82	0.00200	<0.00008	0.000470	0.000180	<0.01	0.800	<0.0006	4.17
	WQ8	Surface		5/17/2011	4.49	0.00145	<0.00008	0.000410	0.000140	<0.01	0.800	<0.0006	3.89
	WQ8	Surface	Dup	5/24/2011	4.42	0.000990	<0.00008	0.000420	0.000180	<0.01	0.700	<0.0006	3.53
	WQ8	Surface		5/24/2011	4.33	0.000980	<0.00008	0.000390	0.000190	<0.01	0.700	<0.0006	3.66
	WQ8	Surface		5/30/2011	5.89	0.00386	<0.00008	0.000560	0.000280	0.0100	1.00	<0.0006	5.41
	WQ8	Surface		6/6/2011	4.34	0.00115	<0.00008	0.000420	0.000250	<0.01	0.700	<0.0006	3.96
	WQ8	Surface	Dup	6/13/2011	4.17	0.0107	<0.00008	0.000460	0.000300	0.0100	0.700	<0.0006	3.70
	WQ8	Surface		6/13/2011	4.12	0.0122	<0.00008	0.000490	0.000310	<0.01	0.700	<0.0006	3.62
	WQ8	Surface		7/18/2011	4.02	0.00637	<0.00008	0.000450	0.000280	<0.01	0.700	<0.0006	3.45
	WQ8	Surface		8/15/2011	4.33	0.00333	<0.00008	0.000480	0.000230	<0.01	0.700	<0.0006	3.38
	WQ8	Surface		9/19/2011	4.38	0.00192	<0.00008	0.000500	<0.00005	<0.01	0.700	<0.0006	3.10
	WQ8	Surface		10/17/2011	4.68	0.00470	<0.00008	0.000480	0.000130	<0.01	0.800	<0.0006	3.69

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LabID	Site	Depth	QAQC	Date	Total Metals								
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					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ8	Surface		11/14/2011	4.58	0.00189	< 0.000008	0.000490	0.000220	0.0100	0.800	< 0.0006	4.51
	WQ8	Surface		12/12/2011	5.02	0.00328	< 0.000008	0.000480	0.000130	0.0200	0.700	< 0.0006	4.75
	WQ8	Surface		1/12/2012	4.80	0.00135	< 0.000008	0.000500	0.000190	0.0100	0.800	< 0.0006	5.27
	WQ8	Surface		2/13/2012	5.05	0.00150	< 0.000008	0.000500	0.000230	< 0.01	0.900	< 0.0006	4.93
	WQ8	Surface		3/12/2012	4.71	0.00368	< 0.000008	0.000460	0.000190	0.0200	0.800	< 0.0006	4.84
	WQ8	Surface		4/16/2012	4.54	0.0127	< 0.000008	0.000460	0.000240	0.0200	1.00	< 0.0006	3.98
	WQ8	Surface		5/14/2012	4.40	0.103	< 0.000005	0.000430	0.000230	0.0200	0.800	< 0.0006	4.21
	WQ8	Surface		5/22/2012	4.48	0.0161	< 0.000005	0.000330	0.000200	< 0.01	0.700	< 0.0006	4.38
	WQ8	Surface		5/28/2012	4.75	0.0104	< 0.000005	0.000540	< 0.00005	< 0.01	0.800	< 0.0006	4.70
	WQ8	Surface		6/4/2012	4.40	0.00488	< 0.000005	0.000450	0.000210	< 0.01	0.700	< 0.0006	4.29
	WQ8	Surface		6/11/2012	4.33	0.00308	< 0.000005	0.000630	0.000230	< 0.01	0.700	< 0.0006	4.49
	WQ8	Surface		6/18/2012	4.32	0.00165	< 0.000005	0.000460	0.000210	< 0.01	0.700	< 0.0006	3.93
	WQ8	Surface		7/16/2012	4.42	0.00496	< 0.000005	0.000550	0.000180	< 0.01	0.700	< 0.0006	3.25
	WQ8	Surface		8/13/2012	4.69	0.00302	< 0.000005	0.000550	0.000220	< 0.01	0.800	< 0.0006	3.18
	WQ8	Surface		9/17/2012	4.61	0.0181	< 0.000005	0.000620	0.000220	0.0100	0.900	< 0.0006	3.16
	WQ8	Surface		10/15/2012	4.83	0.00402	< 0.000005	0.000520	0.000130	< 0.01	0.800	< 0.0006	2.73
	WQ8	Surface		11/13/2012	5.01	0.00278	< 0.000005	0.000530	0.000160	< 0.01	0.800	< 0.0006	4.64
	WQ8	Surface		1/13/2013	5.54	0.00555	< 0.000005	0.000510	0.000160	0.0100	1.00	< 0.0006	5.28
	WQ8	Surface		2/12/2013	5.55	0.00169	< 0.000005	0.000510	0.0000900	0.0200	1.00	< 0.0006	5.27
	WQ8	Surface	Dup	3/11/2013	5.55	0.000840	< 0.000005	0.000550	0.000250	0.0200	1.00	< 0.0006	4.16
	WQ8	Surface		3/11/2013	5.43	0.000590	< 0.000005	0.000540	0.000240	0.0200	1.00	< 0.0006	4.10
	WQ8	Surface		4/15/2013	3.81	0.0224	< 0.000005	0.000510	0.000200	0.0100	1.10	< 0.0001	2.86
	WQ8	Surface		5/13/2013	5.01	0.0184	< 0.000005	0.000490	0.000210	0.0200	0.800	< 0.0001	3.85
	WQ8	Surface		5/22/2013	4.78	0.0263	< 0.000005	0.000590	0.000550	0.0500	0.900	< 0.0001	4.49
	WQ8	Surface		5/27/2013	5.27	0.00367	< 0.000005	0.000130	< 0.00005	< 0.01	0.900	< 0.0001	3.51
	WQ8	Surface		6/6/2013	4.62	0.00310	< 0.000005	0.000500	0.000190	< 0.01	0.800	< 0.0001	3.66
	WQ8	Surface		6/10/2013	4.43	0.00164	< 0.000005	0.000480	0.000230	< 0.01	0.700	< 0.0001	2.74
	WQ8	Surface		6/17/2013	4.08	0.00384	< 0.000005	0.000490	0.000220	< 0.01	< 0.5	< 0.0001	2.53
	WQ8	Surface		4/13/2014	4.14	0.0371	< 0.000005	0.000470	0.000200	0.0300	1.10	< 0.0001	3.43
	WQ8	Surface		7/2/2014	4.53	0.00642	< 0.000005	0.000260	< 0.00005	< 0.01	0.800	< 0.0001	3.19
	WQ8	Surface		9/24/2014	4.97	0.00144	< 0.000005	0.000570	0.000200	< 0.01	0.900	< 0.0001	2.25
	WQ8	Surface	Dup	12/9/2014	5.24	0.00300	< 0.000005	0.000480	0.000230	0.0200	0.900	< 0.0001	4.75
	WQ8	Surface		12/9/2014	5.42	0.00297	< 0.000005	0.000470	0.000240	0.0200	0.900	< 0.0001	5.00
L1913531-6	WQ8	Surface		4/12/2017	4.37	0.00229	< 0.0000050	0.000472	< 0.00050	< 0.30	0.726	< 0.000050	3.24
L1926080-3	WQ8	Surface		5/11/2017	5.03	0.00164	< 0.0000050	0.000477	< 0.00050	< 0.30	0.801	0.0000580	3.61
L1939712-8	WQ8	Surface		6/7/2017	4.98	0.00272	< 0.0000050	0.000476	< 0.00050	< 0.30	0.763	0.0000640	2.79
L1962414-4	WQ8	Surface		7/19/2017	4.61	0.00229	< 0.0000050	0.000512	< 0.00050	< 0.30	0.697	0.0000530	1.52
L1984944-6	WQ8	Surface		8/30/2017	4.71	0.00390	< 0.0000050	0.000513	< 0.00050	< 0.30	0.751	< 0.000050	1.08
L1987355-1	WQ8	Surface		9/5/2017	4.28	0.00440	< 0.0000050	0.000461	< 0.00050	< 0.30	0.764	0.0000900	1.01
L2009845-4	WQ8	Surface		10/17/2017	4.80	0.00214	< 0.0000050	0.000494	< 0.00050	< 0.30	0.781	0.0000680	2.08
L2020333-4	WQ8	Surface		11/7/2017	4.54	0.00360	< 0.0000050	0.000464	< 0.00050	< 0.30	0.852	0.0000580	3.51
L2034610-1	WQ8	Surface		12/11/2017	4.76	0.00321	< 0.0000050	0.000479	< 0.00050	< 0.30	0.817	0.0000860	3.74
L2049224-5	WQ8	Surface	Dup	1/23/2018	5.34	0.00204	< 0.0000050	0.000497	< 0.00050	< 0.30	0.856	0.000119	4.19
L2049224-1	WQ8	Surface		1/23/2018	5.29	0.00179	< 0.0000050	0.000488	< 0.00050	< 0.30	0.854	0.000102	4.15

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					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2057954-1	WQ8	Surface		2/15/2018	4.96	0.00184	<0.0000050	0.000508	<0.00050	<0.30	0.841	0.0000570	3.81
L2073898-2	WQ8	Surface		3/27/2018	4.80	0.00452	<0.0000050	0.000544	<0.00050	<0.30	0.864	0.0000710	3.80
L2081503-2	WQ8	Surface		4/17/2018	5.05	0.00275	<0.0000050	0.000537	<0.00050	<0.30	0.860	0.0000630	3.74
L2096380-1	WQ8	Surface		5/15/2018	4.50	0.00248	<0.0000050	0.000499	<0.00050	<0.30	0.854	0.0000740	3.69
L2104479-2	WQ8	Surface		5/30/2018	4.51	0.00225	<0.0000050	0.000493	<0.00050	<0.30	0.824	0.0000550	3.89
L2132128-2	WQ8	Surface		7/17/2018	4.19	0.00302	<0.0000050	0.000501	<0.00050	<0.30	0.799	0.0000610	2.78
L2144782-1	WQ8	Surface		8/9/2018	4.37	0.0209	<0.0000050	0.000513	<0.00050	<0.30	0.802	0.0000760	2.71
L2164448-2	WQ8	Surface		9/12/2018	4.73	0.00879	<0.0000050	0.000510	<0.00050	<0.30	0.934	<0.000050	2.80
L2187638-2	WQ8	Surface		10/24/2018	4.33	0.00604	<0.0000050	0.000488	<0.00050	<0.30	0.791	<0.000050	3.21
L2203408-3	WQ8	Surface		11/27/2018	4.61	0.00180	<0.0000050	0.000470	<0.00050	<0.30	0.856	<0.000050	3.81
L2213684-6	WQ8	Surface	Dup	12/19/2018	4.88	0.00237	<0.0000050	0.000491	<0.00050	<0.30	0.851	<0.000050	4.20
L2213684-2	WQ8	Surface		12/19/2018	4.83	0.00246	0.0000540	0.000509	<0.00050	<0.30	0.837	0.0000520	4.28
L2227101-2	WQ8	Surface		1/29/2019	5.47	0.00166	<0.0000050	0.000545	<0.00050	<0.30	0.970	0.0000680	4.59
L2232050-5	WQ8	Surface		2/11/2019	5.18	0.00123	<0.0000050	0.000549	<0.00050	<0.30	0.897	0.0000570	4.51
L2245144-1	WQ8	Surface		3/14/2019	5.31	0.00282	<0.0000050	0.000498	<0.00050	<0.30	0.893	<0.000050	4.46
L2256054-2	WQ8	Surface		4/9/2019	4.33	0.00548	<0.0000050	0.000468	<0.00050	<0.30	0.996	0.0000530	3.48
L2277964-1	WQ8	Surface		5/21/2019	4.36	0.00227	<0.0000050	0.000530	<0.00050	<0.30	0.782	0.0000540	3.21
L2286702-2	WQ8	Surface		6/4/2019	4.36	0.00199	<0.0000050	0.000509	<0.00050	<0.30	0.760	0.0000610	3.20
L2313851-3	WQ8	Surface		7/18/2019	4.31	0.00547	<0.0000050	0.000527	<0.00050	<0.30	0.714	<0.000050	2.53
L2328474-4	WQ8	Surface		8/12/2019	4.30	0.00424	<0.0000050	0.000486	<0.00050	<0.30	0.735	0.000101	2.57
L2349445-2	WQ8	Surface		9/16/2019	4.75	0.00254	<0.0000050	0.000573	<0.00050	<0.30	0.759	<0.000050	2.51
L2371052-2	WQ8	Surface		10/22/2019	5.12	0.00744	<0.0000050	0.000527	<0.00050	<0.30	0.883	0.0000560	3.37
L2388381-2	WQ8	Surface		11/25/2019	4.73	0.00175	<0.0000050	0.000525	<0.00050	<0.30	0.825	<0.000050	4.34
VA19A0791-002	WQ8	Surface		12/17/2019	4.83	0.00423	<0.0000050	0.000519	<0.00050	<0.050	0.876	<0.000050	4.47
VA20A0960-002	WQ8	Surface		1/27/2020	5.40	0.0248	<0.0000050	0.000518	<0.00050	<0.050	0.862	0.0000590	4.52
VA20A2126-002	WQ8	Surface		2/19/2020	4.68	0.00201	<0.0000050	0.000568	<0.00050	<0.050	0.883	0.0000590	4.04
VA20A3691-003	WQ8	Surface		3/18/2020	5.45	0.00146	<0.0000050	0.000565	<0.00050	<0.050	0.943	0.0000710	4.61
VA20A4555-003	WQ8	Surface		4/7/2020	5.19	0.00205	<0.0000050	0.000567	<0.00050	<0.050	0.894	<0.000050	4.34
VA20A6356-001	WQ8	Surface		5/11/2020	4.70	0.0190	<0.0000050	0.000526	<0.00050	<0.050	0.837	0.0000640	4.10
VA20A7797-004	WQ8	Surface		6/3/2020	4.70	0.00169	<0.0000050	0.000509	<0.00050	<0.050	0.781	0.0000600	4.09
VA20B0021-004	WQ8	Surface		7/7/2020	4.64	0.00200	<0.0000050	0.000515	<0.00050	0.0640	0.762	0.0000530	3.64
VA20B2156-005	WQ8	Surface		8/5/2020	4.60	0.00348	<0.0000050	0.000492	<0.00050	<0.050	0.686	<0.000050	3.42
VA20B4443-004	WQ8	Surface		9/2/2020	4.57	0.0174	<0.0000050	0.000597	<0.00050	<0.050	0.747	0.0000820	3.21
VA20B7624-002	WQ8	Surface		10/6/2020	4.40	0.0105	<0.0000050	0.000524	<0.00050	<0.050	0.778	<0.000050	3.16
VA20C0298-002	WQ8	Surface		11/5/2020	5.23	0.00551	<0.0000050	0.000542	<0.00050	<0.050	0.857	<0.000050	5.19
	WQ9	Surface	Dup	3/30/2011	4.70	0.0214	< 0.000008	0.000640	0.000230	0.0100	0.900	< 0.0006	4.96
	WQ9	Surface		3/30/2011	4.83	0.0219	< 0.000008	0.000610	0.000200	0.0100	0.900	< 0.0006	5.07
	WQ9	Surface	Dup	4/19/2011	5.00	0.0334	< 0.000008	0.000590	0.000230	0.0100	0.900	< 0.0006	4.61
	WQ9	Surface		4/19/2011	4.78	0.0393	< 0.000008	0.000600	0.000260	0.0200	0.900	< 0.0006	4.90
	WQ9	Surface		5/17/2011	3.44	0.00836	< 0.000008	0.000390	0.000250	0.0200	0.900	< 0.0006	4.31
	WQ9	Surface		5/24/2011	2.97	0.00466	< 0.000008	0.000420	0.000300	0.0100	0.800	< 0.0006	4.04
	WQ9	Surface	Dup	5/30/2011	2.97	0.00464	< 0.000008	0.000400	0.000320	0.0100	0.800	< 0.0006	4.18
	WQ9	Surface		5/30/2011	3.01	0.00475	< 0.000008	0.000400	0.000330	0.0100	0.800	< 0.0006	4.13
	WQ9	Surface		6/6/2011	3.30	0.00787	< 0.000008	0.000430	0.000290	< 0.01	0.700	< 0.0006	4.11

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Magnesium (Mg)-Dissolved	Manganese (Mn)-Dissolved	Mercury (Hg)-Dissolved	Molybdenum (Mo)-Dissolved	Nickel (Ni)-Dissolved	Phosphorus (P)-Dissolved	Potassium (K)-Dissolved	Selenium (Se)-Dissolved	Silicon (Si)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ9	Surface		6/13/2011	3.33	0.0105	< 0.000008	0.000490	0.000310	< 0.01	0.600	< 0.0006	3.98
	WQ9	Surface		7/18/2011	3.18	0.0133	< 0.000008	0.000550	0.000330	< 0.01	0.600	< 0.0006	4.26
	WQ9	Surface		8/15/2011	3.99	0.0144	< 0.000008	0.000530	0.000250	< 0.01	0.700	< 0.0006	4.06
	WQ9	Surface		9/19/2011	4.05	0.0291	< 0.000008	0.000670	< 0.00005	< 0.01	0.700	< 0.0006	4.58
	WQ9	Surface		10/17/2011	3.92	0.0254	< 0.000008	0.000550	0.000160	< 0.01	0.700	< 0.0006	5.11
	WQ9	Surface		11/14/2011	4.40	0.0224	< 0.000008	0.000540	0.000230	0.0100	0.800	< 0.0006	4.74
	WQ9	Surface		12/12/2011	4.66	0.0193	< 0.000008	0.000540	0.000130	0.0100	0.700	< 0.0006	5.18
	WQ9	Surface		1/12/2012	4.70	0.0167	< 0.000008	0.000560	0.000200	0.0100	0.900	< 0.0006	6.11
	WQ9	Surface		2/13/2012	4.63	0.0138	< 0.000008	0.000570	0.000210	< 0.01	0.800	< 0.0006	5.35
	WQ9	Surface		3/12/2012	4.40	0.0139	< 0.000008	0.000530	0.000190	0.0100	0.800	< 0.0006	5.36
	WQ9	Surface		4/17/2012	4.39	0.0361	< 0.000008	0.000610	0.000240	0.0200	1.20	< 0.0006	4.95
	WQ9	Surface		5/14/2012	3.42	0.0620	< 0.000005	0.000440	0.000350	0.0100	0.900	< 0.0006	4.34
	WQ9	Surface	Dup	5/22/2012	3.20	0.0147	< 0.000005	0.000350	0.000200	< 0.01	0.700	< 0.0006	4.64
	WQ9	Surface		5/22/2012	3.23	0.0144	< 0.000005	0.000350	0.000380	< 0.01	0.700	< 0.0006	4.58
	WQ9	Surface		5/28/2012	3.45	0.0122	< 0.000005	0.000460	< 0.00005	< 0.01	0.700	< 0.0006	4.78
	WQ9	Surface		6/4/2012	3.51	0.0101	< 0.000005	0.000420	0.000240	< 0.01	0.700	< 0.0006	4.86
	WQ9	Surface		6/11/2012	3.44	0.0109	< 0.000005	0.000550	0.000300	< 0.01	0.700	< 0.0006	4.75
	WQ9	Surface		6/18/2012	3.56	0.0146	< 0.000005	0.000500	0.000240	< 0.01	0.600	< 0.0006	4.26
	WQ9	Surface		7/16/2012	4.03	0.0133	< 0.000005	0.000550	0.000160	< 0.01	0.700	< 0.0006	3.89
	WQ9	Surface		8/13/2012	4.33	0.0210	< 0.000005	0.000580	0.000250	< 0.01	0.800	< 0.0006	4.01
	WQ9	Surface		9/17/2012	4.43	0.0162	< 0.000005	0.000650	0.000240	< 0.01	0.800	< 0.0006	4.17
	WQ9	Surface		10/16/2012	4.44	0.0176	< 0.000005	0.000610	0.000140	< 0.01	0.800	< 0.0006	3.94
	WQ9	Surface		11/12/2012	4.71	0.0260	< 0.000005	0.000540	0.000140	< 0.01	0.800	< 0.0006	5.39
	WQ9	Surface	Dup	12/10/2012	5.19	0.0238	< 0.000005	0.000590	0.000140	0.0100	0.900	< 0.0006	5.22
	WQ9	Surface		12/10/2012	5.06	0.0236	< 0.000005	0.000510	0.000140	0.0200	0.900	< 0.0006	5.02
	WQ9	Surface		1/15/2013	5.28	0.0223	< 0.000005	0.000610	0.000160	0.0100	0.900	< 0.0006	5.83
	WQ9	Surface		2/13/2013	5.21	0.0156	< 0.000005	0.000540	0.000100	0.0100	0.900	< 0.0006	5.03
	WQ9	Surface		3/12/2013	5.15	0.0152	< 0.000005	0.000620	0.000230	0.0200	0.900	< 0.0006	4.47
	WQ9	Surface		4/16/2013	4.51	0.0128	< 0.000005	0.000580	0.000260	0.0100	0.900	< 0.0001	4.04
	WQ9	Surface		5/14/2013	3.60	0.0170	< 0.000005	0.000440	0.000280	0.0100	0.700	< 0.0001	3.83
	WQ9	Surface		5/21/2013	3.57	0.0112	< 0.000005	0.000450	0.000240	< 0.01	0.700	< 0.0001	3.37
	WQ9	Surface	Dup	5/28/2013	3.71	0.0103	< 0.000005	0.000100	< 0.00005	< 0.01	0.800	< 0.0001	3.89
	WQ9	Surface		5/28/2013	3.83	0.0102	< 0.000005	0.000110	< 0.00005	< 0.01	0.800	< 0.0001	3.97
	WQ9	Surface		6/4/2013	3.59	0.00934	< 0.000005	0.000450	0.000240	< 0.01	0.700	< 0.0001	4.02
	WQ9	Surface		6/11/2013	3.89	0.0130	< 0.000005	0.000460	0.000270	< 0.01	0.600	< 0.0001	2.99
	WQ9	Surface		6/18/2013	3.34	0.0115	< 0.000005	0.000470	0.000280	< 0.01	< 0.5	< 0.0001	2.91
	WQ9	Surface		4/13/2014	4.06	0.0520	< 0.000005	0.000590	0.000200	0.0200	1.10	< 0.0001	4.08
	WQ9	Surface	Dup	7/2/2014	4.13	0.0160	< 0.000005	0.000340	< 0.00005	< 0.01	0.700	< 0.0001	3.80
	WQ9	Surface		7/2/2014	4.08	0.0162	< 0.000005	0.000330	< 0.00005	< 0.01	0.700	< 0.0001	3.74
	WQ9	Surface		9/24/2014	4.82	0.0219	< 0.000005	0.000690	0.000220	< 0.01	0.900	< 0.0001	3.87
	WQ9	Surface		12/9/2014	4.84	0.0178	< 0.000005	0.000500	0.000220	0.0200	0.900	< 0.0001	5.12
L1812856-10	WQ9	Surface		8/10/2016	3.82	0.0136	< 0.0000050	0.000592	< 0.00050	< 0.30	0.689	0.0000530	1.99
L1815654-10	WQ9	Surface		8/16/2016	4.43	0.0133	< 0.0000050	0.000556	< 0.00050	< 0.30	0.760	0.0000760	1.92
L1819041-1	WQ9	Surface		8/23/2016	4.28	0.0141	< 0.0000050	0.000587	< 0.00050	< 0.30	0.761	0.0000580	2.29

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LabID	Site	Depth	QAQC	Date	Total Metals								
					Magnesium (Mg)-Dissolved	Manganese (Mn)-Dissolved	Mercury (Hg)-Dissolved	Molybdenum (Mo)-Dissolved	Nickel (Ni)-Dissolved	Phosphorus (P)-Dissolved	Potassium (K)-Dissolved	Selenium (Se)-Dissolved	Silicon (Si)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1823224-3	WQ9	Surface		8/31/2016	4.33	0.0207	<0.0000050	0.000613	<0.00050	<0.30	0.761	0.0000530	2.76
L1826303-6	WQ9	Surface	Dup	9/7/2016	3.80	0.0181	<0.0000050	0.000614	<0.00050	<0.30	0.733	0.0000560	2.96
L1826303-10	WQ9	Surface		9/7/2016	2.30	0.00596	<0.0000050	0.000521	<0.00050	<0.30	0.450	<0.000050	5.89
L1913531-7	WQ9	Surface		4/12/2017	4.04	0.0228	<0.0000050	0.000572	<0.00050	<0.30	0.765	<0.000050	4.36
L1926080-5	WQ9	Surface		5/11/2017	3.78	0.00782	<0.0000050	0.000467	<0.00050	<0.30	0.761	0.0000520	4.25
L1939712-9	WQ9	Surface		6/7/2017	3.92	0.0120	<0.0000050	0.000484	<0.00050	<0.30	0.713	0.0000570	3.54
L1962414-5	WQ9	Surface		7/19/2017	4.16	0.0185	<0.0000050	0.000579	<0.00050	<0.30	0.689	0.0000560	2.68
L1984944-7	WQ9	Surface		8/30/2017	4.45	0.0259	<0.0000050	0.000621	<0.00050	<0.30	0.815	<0.000050	2.53
L1988832-5	WQ9	Surface		9/9/2017	4.43	0.0216	<0.0000050	0.000657	<0.00050	<0.30	0.766	0.0000620	2.67
L2009845-6	WQ9	Surface	Dup	10/17/2017	3.88	0.0151	<0.0000050	0.000594	<0.00050	<0.30	0.739	0.0000530	4.27
L2009845-3	WQ9	Surface		10/17/2017	4.06	0.0158	<0.0000050	0.000593	<0.00050	<0.30	0.776	0.0000630	3.97
L2020333-3	WQ9	Surface		11/7/2017	3.78	0.0221	<0.0000050	0.000541	<0.00050	<0.30	0.752	0.0000540	4.91
L2034610-6	WQ9	Surface	Dup	12/11/2017	4.34	0.0179	<0.0000050	0.000571	<0.00050	<0.30	0.754	0.0000580	4.67
L2034610-3	WQ9	Surface		12/11/2017	4.25	0.0172	<0.0000050	0.000548	<0.00050	<0.30	0.730	0.0000650	4.68
L2049224-2	WQ9	Surface		1/23/2018	4.72	0.0167	<0.0000050	0.000564	<0.00050	<0.30	0.789	0.000146	4.81
L2057025-1	WQ9	Surface		2/13/2018	4.64	0.0148	<0.0000050	0.000574	<0.00050	<0.30	0.835	<0.000050	4.21
L2074294-2	WQ9	Surface		3/28/2018	4.05	0.0204	<0.0000050	0.000606	<0.00050	<0.30	1.29	0.0000640	3.94
L2081503-3	WQ9	Surface		4/17/2018	4.67	0.0263	<0.0000050	0.000635	<0.00050	<0.30	1.61	0.0000610	4.19
L2097084-2	WQ9	Surface		5/16/2018	3.15	0.00575	<0.0000050	0.000467	<0.00050	<0.30	0.696	0.0000590	3.49
L2104479-5	WQ9	Surface	Dup	5/30/2018	3.74	0.00862	<0.0000050	0.000499	<0.00050	<0.30	0.747	0.0000620	4.05
L2104479-3	WQ9	Surface		5/30/2018	3.86	0.00924	<0.0000050	0.000524	<0.00050	<0.30	0.769	0.0000640	4.21
L2132128-3	WQ9	Surface		7/17/2018	4.13	0.0123	0.00000590	0.000585	<0.00050	<0.30	0.789	0.0000570	3.57
L2144782-3	WQ9	Surface		8/9/2018	4.18	0.0262	<0.0000050	0.000642	<0.00050	<0.30	0.833	0.0000660	3.75
L2164448-5	WQ9	Surface		9/12/2018	4.26	0.0244	<0.0000050	0.000650	<0.00050	<0.30	0.898	0.0000590	4.01
L2187638-5	WQ9	Surface		10/24/2018	3.64	0.0168	<0.00025	0.000545	<0.00050	<0.30	0.724	0.0000760	4.06
L2203408-4	WQ9	Surface		11/27/2018	3.83	0.0145	<0.0000050	0.000538	<0.00050	<0.30	0.760	0.0000690	4.60
L2213684-3	WQ9	Surface		12/19/2018	4.43	0.0145	<0.0000050	0.000550	<0.00050	<0.30	0.812	<0.000050	4.80
L2227101-3	WQ9	Surface		1/29/2019	4.77	0.0114	<0.0000050	0.000543	<0.00050	<0.30	0.914	0.0000570	4.68
L2233329-3	WQ9	Surface		2/13/2019	4.95	0.00990	<0.0000050	0.000569	<0.00050	<0.30	0.898	<0.000050	4.66
L2245144-3	WQ9	Surface		3/14/2019	4.97	0.0123	<0.0000050	0.000551	<0.00050	<0.30	0.835	<0.000050	4.85
L2256054-3	WQ9	Surface		4/9/2019	3.80	0.0141	0.00000570	0.000766	<0.00050	<0.30	1.06	0.0000550	4.55
L2274397-4	WQ9	Surface		5/14/2019	3.52	0.00799	<0.0000050	0.000503	<0.00050	<0.30	0.745	<0.000050	4.37
L2286702-3	WQ9	Surface		6/4/2019	3.96	0.00955	<0.0000050	0.000531	<0.00050	<0.30	0.742	0.0000510	3.61
L2313851-4	WQ9	Surface		7/18/2019	3.66	0.0131	<0.0000050	0.000528	<0.00050	<0.30	0.640	0.0000650	3.68
L2325935-3	WQ9	Surface		8/7/2019	3.51	0.0120	<0.0000050	0.000589	<0.00050	<0.30	0.645	0.0000530	3.80
L2349445-3	WQ9	Surface		9/16/2019	4.19	0.0133	<0.0000050	0.000662	<0.00050	<0.30	0.735	<0.000050	3.86
L2371052-3	WQ9	Surface		10/22/2019	3.95	0.0135	<0.0000050	0.000571	<0.00050	<0.30	0.782	0.0000580	4.28
L2388381-3	WQ9	Surface		11/25/2019	3.69	0.0131	<0.0000050	0.000539	<0.00050	<0.30	0.723	<0.000050	4.93
VA19A0791-003	WQ9	Surface		12/17/2019	4.37	0.0135	<0.0000050	0.000575	<0.00050	<0.050	0.792	0.0000640	5.02
VA20A0960-005	WQ9	Surface	Dup	1/27/2020	4.60	0.0118	<0.0000050	0.000562	<0.00050	<0.050	0.780	0.0000580	4.98
VA20A0960-003	WQ9	Surface		1/27/2020	4.75	0.0120	<0.0000050	0.000554	<0.00050	<0.050	0.796	0.0000720	4.94
VA20A2211-003	WQ9	Surface		2/20/2020	4.44	0.0117	<0.0000050	0.000635	<0.00050	<0.050	0.801	0.0000810	4.82
VA20A3691-004	WQ9	Surface		3/18/2020	5.01	0.0196	<0.0000050	0.000630	<0.00050	<0.050	0.859	0.0000550	5.04
VA20A4555-004	WQ9	Surface		4/7/2020	4.83	0.0334	<0.0000050	0.000636	<0.00050	<0.050	0.841	0.0000670	4.87

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals								
					Magnesium (Mg)-Dissolved	Manganese (Mn)-Dissolved	Mercury (Hg)-Dissolved	Molybdenum (Mo)-Dissolved	Nickel (Ni)-Dissolved	Phosphorus (P)-Dissolved	Potassium (K)-Dissolved	Selenium (Se)-Dissolved	Silicon (Si)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
VA20A6218-005	WQ9	Surface	Dup	5/7/2020	3.58	0.0184	<0.0000050	0.000548	<0.00050	<0.050	0.766	<0.0000050	4.60
VA20A6218-003	WQ9	Surface		5/7/2020	3.72	0.0100	<0.0000050	0.000484	<0.00050	<0.050	0.778	<0.0000050	4.58
VA20A6503-004	WQ9	Surface		5/13/2020	3.56	0.0122	<0.0000050	0.000469	<0.00050	<0.050	0.742	0.0000600	4.22
VA20A6869-006	WQ9	Surface	Dup	5/20/2020	3.38	0.00843	<0.0000050	0.000510	<0.00050	<0.050	0.723	<0.0000050	4.62
VA20A6869-002	WQ9	Surface		5/20/2020	3.37	0.00849	<0.0000050	0.000509	<0.00050	<0.050	0.721	0.0000840	4.44
VA20A7367-002	WQ9	Surface		5/28/2020	3.26	0.0108	<0.0000050	0.000501	<0.00050	<0.050	0.738	<0.0000050	4.40
VA20A7672-003	WQ9	Surface		6/2/2020	3.56	0.0101	<0.0000050	0.000482	<0.00050	<0.050	0.685	0.0000630	4.21
VA20A9918-002	WQ9	Surface		7/6/2020	3.62	0.00904	<0.0000050	0.000555	<0.00050	<0.050	0.716	0.0000620	4.26
VA20B2156-006	WQ9	Surface		8/5/2020	4.35	0.0124	<0.0000050	0.000575	<0.00050	<0.050	0.702	0.0000810	3.92
VA20B2426-001	WQ9	Surface		8/10/2020	3.89	0.0145	<0.0000050	0.000577	<0.00050	<0.050	0.720	0.0000500	4.31
VA20B3033-005	WQ9	Surface	Dup	8/17/2020	3.88	0.0180	<0.0000050	0.000643	<0.00050	<0.050	0.757	0.0000780	4.44
VA20B3033-003	WQ9	Surface		8/17/2020	3.95	0.0186	<0.0000050	0.000628	<0.00050	<0.050	0.778	0.0000510	4.49
VA20B3609-003	WQ9	Surface		8/24/2020	4.20	0.0222	<0.0000050	0.000654	<0.00050	<0.050	0.736	0.0000750	4.14
VA20B4443-005	WQ9	Surface		9/2/2020	4.08	0.0187	<0.0000050	0.000650	<0.00050	<0.050	0.722	0.0000680	4.99
VA20B7624-003	WQ9	Surface		10/6/2020	4.05	0.0171	<0.0000050	0.000649	<0.00050	<0.050	0.849	0.0000720	4.14
VA20C0298-003	WQ9	Surface		11/5/2020	3.35	0.00685	<0.0000050	0.000553	<0.00050	<0.050	0.777	<0.0000050	5.36

Notes:

"-" indicates parameter was not analyzed.

"<" value is below the detection limit

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals									
					Silver (Ag)-Dissolved	Sodium (Na)-Dissolved	Strontium (Sr)-Dissolved	Sulfur (S)-Dissolved	Thallium (Tl)-Dissolved	Tin (Sn)-Dissolved	Titanium (Ti)-Dissolved	Uranium (U)-Dissolved	Vanadium (V)-Dissolved	Zinc (Zn)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1989016-1	BI-09	Surface		9/7/2017	<0.000010	2.70	0.0757	<0.50	<0.000010	<0.00010	<0.010	0.000103	<0.00050	<0.0030
L2049224-4	BI-09	Surface		1/23/2018	<0.000010	2.30	0.0603	<0.50	<0.000010	<0.00010	<0.010	0.000169	<0.00050	0.00340
L2062480-1	BI-09	Surface		2/27/2018	<0.000010	2.40	0.0599	<0.50	<0.000010	<0.00010	<0.010	0.000156	<0.00050	<0.0030
L2073898-1	BI-09	Surface		3/27/2018	<0.000010	2.30	0.0596	<0.50	<0.000010	<0.00010	<0.010	0.000149	<0.00050	<0.0030
L2081505-2	BI-09	Surface	Dup	4/16/2018	<0.000010	2.10	0.0613	0.620	<0.000010	<0.00010	<0.010	0.000159	<0.00050	<0.0030
L2081505-1	BI-09	Surface		4/16/2018	<0.000010	2.10	0.0590	0.560	<0.000010	<0.00010	<0.010	0.000158	<0.00050	<0.0030
L2096380-2	BI-09	Surface		5/15/2018	<0.000010	<2.0	0.0324	<0.50	<0.000010	<0.00010	<0.010	0.000237	<0.00050	<0.0030
L2102737-3	BI-09	Surface		5/28/2018	<0.000010	<2.0	0.0403	<0.50	<0.000010	<0.00010	<0.010	0.000228	<0.00050	<0.0030
L2132128-4	BI-09	Surface		7/17/2018	<0.000010	2.30	0.0580	<0.50	<0.000010	<0.00010	<0.010	0.000170	<0.00050	<0.0010
L2144658-1	BI-09	Surface		8/8/2018	<0.000010	2.30	0.0604	<0.50	<0.000010	<0.00010	<0.010	0.000123	<0.00050	<0.0010
L2163669-1	BI-09	Surface		9/11/2018	<0.000010	2.50	0.0711	<0.50	<0.000010	<0.00010	<0.010	0.0000950	<0.00050	0.00130
L2187638-1	BI-09	Surface		10/24/2018	<0.000010	2.00	0.0533	<0.50	<0.000010	<0.00010	<0.010	0.000116	<0.00050	<0.0010
L2204086-3	BI-09	Surface		11/28/2018	<0.000010	<2.0	0.0514	<0.50	<0.000010	<0.00010	<0.010	0.000213	<0.00050	<0.0010
L2213684-5	BI-09	Surface		12/19/2018	<0.000010	2.10	0.0579	0.570	<0.000010	<0.00010	<0.010	0.000180	<0.00050	<0.0010
L2227101-5	BI-09	Surface		1/29/2019	<0.000010	2.20	0.0591	<0.50	<0.000010	<0.00010	<0.010	0.000140	<0.00050	<0.0010
L2233329-6	BI-09	Surface	Dup	2/13/2019	<0.000010	2.30	0.0620	<0.50	<0.000010	<0.00010	<0.010	0.000142	<0.00050	<0.0010
L2233329-4	BI-09	Surface		2/13/2019	<0.000010	2.50	0.0593	<0.50	<0.000010	<0.00010	<0.010	0.000146	<0.00050	<0.0010
L2245144-5	BI-09	Surface		3/14/2019	<0.000010	2.50	0.0657	0.680	<0.000010	<0.00010	<0.010	0.000143	<0.00050	<0.0010
L2256054-5	BI-09	Surface		4/9/2019	<0.000010	<2.0	0.0480	0.670	<0.000010	<0.00010	<0.010	0.000193	0.000520	<0.0010
L2282191-3	BI-09	Surface		5/28/2019	<0.000010	<2.0	0.0449	<0.50	<0.000010	<0.00010	<0.010	0.000225	<0.00050	<0.0010
L2285579-1	BI-09	Surface		6/3/2019	<0.000010	<2.0	0.0512	0.530	<0.000010	<0.00010	<0.010	0.000236	<0.00050	<0.0010
L2313851-5	BI-09	Surface	Dup	7/18/2019	<0.000010	<2.0	0.0431	<0.50	<0.000010	<0.00010	<0.010	0.000211	<0.00050	<0.0010
L2313851-1	BI-09	Surface		7/18/2019	<0.000010	<2.0	0.0447	<0.50	<0.000010	<0.00010	<0.010	0.000222	<0.00050	<0.0010
L2329543-3	BI-09	Surface		8/13/2019	<0.000010	<2.0	0.0547	<0.50	<0.000010	<0.00010	<0.010	0.000218	<0.00050	<0.0010
L2350223-4	BI-09	Surface		9/17/2019	<0.000010	2.00	0.0562	<0.50	<0.000010	<0.00010	<0.010	0.000168	<0.00050	<0.0010
L2371052-5	BI-09	Surface		10/22/2019	<0.000010	<2.0	0.0472	<0.50	<0.000010	<0.00010	<0.010	0.000183	<0.00050	<0.0010
L2378996-1	BI-09	Surface		11/5/2019	<0.000010	<2.0	0.0493	<0.50	<0.000010	<0.00010	<0.010	0.000207	<0.00050	<0.0010
VA19A0726-005	BI-09	Surface		12/16/2019	<0.000010	1.86	0.0478	<0.50	<0.000010	<0.00010	0.00154	0.000193	<0.00050	<0.0010
VA20A2126-001	BI-09	Surface		2/19/2020	<0.000010	2.07	0.0593	<0.50	<0.000010	<0.00010	0.00119	0.000159	<0.00050	0.00150
VA20A7202-005	BI-09	Surface	Dup	5/26/2020	<0.000010	1.45	0.0268	<0.50	<0.000010	<0.00010	0.00120	0.000150	<0.00050	<0.0010
VA20A7202-002	BI-09	Surface		5/26/2020	<0.000010	1.46	0.0383	<0.50	<0.000010	<0.00010	0.00136	0.000228	<0.00050	<0.0010
VA20B2212-001	BI-09	Surface		8/6/2020	<0.000010	2.33	0.0548	<0.50	<0.000010	<0.00010	0.00188	0.000210	<0.00050	<0.0010
VA20C0197-002	BI-09	Surface		11/4/2020	<0.000010	1.53	0.0458	<0.50	<0.000010	<0.00010	0.00383	0.000232	<0.00050	<0.0010
L1989016-2	BI-12	Surface		9/7/2017	<0.000010	2.30	0.0667	<0.50	<0.000010	<0.00010	<0.010	0.000104	<0.00050	<0.0030
L1762266-1	BI-13	Surface		4/27/2016	<0.000010	<2.0	0.0243	-	<0.000010	<0.00010	<0.010	0.0000310	<0.00050	<0.0030
L1764648-4	BI-13	Surface		5/3/2016	<0.000010	<2.0	0.0220	-	<0.000010	<0.00010	<0.010	0.0000310	<0.00050	0.00350
L1767107-1	BI-13	Surface		5/9/2016	<0.000010	<2.0	0.0245	-	<0.000010	<0.00010	<0.010	0.0000300	<0.00050	0.00360
L1770672-2	BI-13	Surface		5/16/2016	<0.000010	<2.0	0.0285	-	<0.000010	<0.00010	<0.010	0.0000310	<0.00050	<0.0030
L1774541-4	BI-13	Surface	Dup	5/25/2016	<0.000010	<2.0	0.0290	-	<0.000010	<0.00010	<0.010	0.0000360	<0.00050	0.00600
L1774541-6	BI-13	Surface		5/25/2016	<0.000010	<2.0	0.0289	-	<0.000010	<0.00010	<0.010	0.0000340	<0.00050	<0.0030
L1788643-4	BI-13	Surface		6/22/2016	<0.000010	<2.0	0.0251	-	<0.000010	<0.00010	<0.010	0.0000370	<0.00050	0.00350
L1808945-4	BI-13	Surface		8/3/2016	<0.000010	<2.0	0.0389	-	<0.000010	<0.00010	<0.010	0.0000300	<0.00050	<0.0030
L1812856-4	BI-13	Surface	Dup	8/10/2016	<0.000010	<2.0	0.0390	-	<0.000010	<0.00010	<0.010	0.0000360	<0.00050	<0.0030
L1812856-6	BI-13	Surface		8/10/2016	<0.000010	<2.0	0.0383	-	<0.000010	<0.00010	<0.010	0.0000320	<0.00050	<0.0030

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals									
					Silver (Ag)-Dissolved	Sodium (Na)-Dissolved	Strontium (Sr)-Dissolved	Sulfur (S)-Dissolved	Thallium (Tl)-Dissolved	Tin (Sn)-Dissolved	Titanium (Ti)-Dissolved	Uranium (U)-Dissolved	Vanadium (V)-Dissolved	Zinc (Zn)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1815654-4	BI-13	Surface		8/16/2016	<0.000010	<2.0	0.0429	-	<0.000010	<0.00010	<0.010	0.0000350	<0.00050	<0.0030
L1819041-7	BI-13	Surface		8/23/2016	<0.000010	<2.0	0.0351	-	<0.000010	<0.00010	<0.010	0.0000360	<0.00050	<0.0030
L1823224-7	BI-13	Surface		8/31/2016	<0.000010	<2.0	0.0379	-	<0.000010	<0.00010	<0.010	0.0000330	<0.00050	<0.0030
L1826303-1	BI-13	Surface		9/7/2016	<0.000010	<2.0	0.0300	-	<0.000010	<0.00010	<0.010	0.0000340	<0.00050	<0.0030
L1988832-6	BI-13	Surface		9/9/2017	<0.000010	2.40	0.0561	0.700	<0.000010	<0.00010	<0.010	0.0000550	0.000560	<0.0030
	WQ1	Surface		5/17/2011	< 0.00005	1.40	0.0236	-	< 0.00005	< 0.0001	0.00220	0.000120	0.000300	0.00850
	WQ1	Surface		5/24/2011	< 0.00005	1.20	0.0207	-	< 0.00005	< 0.0001	0.00280	0.000160	< 0.00005	0.00680
	WQ1	Surface		5/30/2011	< 0.00005	1.10	0.0176	-	< 0.00005	< 0.0001	0.00190	0.000180	< 0.00005	0.00720
	WQ1	Surface	Dup	6/6/2011	< 0.00005	1.00	0.0144	-	< 0.00005	< 0.0001	0.00170	0.000150	0.000110	0.00850
	WQ1	Surface		6/6/2011	< 0.00005	1.00	0.0145	-	< 0.00005	< 0.0001	0.00180	0.000150	0.000110	0.00440
	WQ1	Surface		6/13/2011	< 0.00005	1.10	0.0134	-	< 0.00005	< 0.0001	0.00130	0.000160	0.000130	0.00280
	WQ1	Surface		7/18/2011	< 0.00005	1.40	0.0177	-	< 0.00005	< 0.0001	0.00130	0.000170	0.000210	0.00440
	WQ1	Surface		8/15/2011	< 0.00005	1.70	0.0183	-	< 0.00005	< 0.0001	0.00100	0.000100	0.000130	0.00240
	WQ1	Surface		9/19/2011	< 0.00005	1.80	0.0210	-	< 0.00005	< 0.0001	0.000700	0.0000700	< 0.00005	0.00180
	WQ1	Surface		10/17/2011	< 0.00005	1.80	0.0187	-	< 0.00005	< 0.0001	0.00110	0.000120	0.0000800	0.000700
	WQ1	Surface		11/14/2011	< 0.00005	2.00	0.0201	-	< 0.00005	< 0.0001	0.000900	0.000150	0.000130	0.00310
	WQ1	Surface		5/15/2012	< 0.00005	1.70	0.0250	-	< 0.00005	< 0.0001	0.00300	0.000110	0.000190	0.00940
	WQ1	Surface		5/23/2012	< 0.00005	1.70	0.0225	-	< 0.00005	< 0.0001	0.00240	0.000120	0.000260	0.00560
	WQ1	Surface		5/28/2012	< 0.00005	1.50	0.0195	-	< 0.00005	< 0.0001	0.00260	0.000180	0.000100	0.00680
	WQ1	Surface		6/4/2012	< 0.00005	1.40	0.0169	-	< 0.00005	< 0.0001	0.00220	0.000140	< 0.00005	0.00230
	WQ1	Surface		6/11/2012	< 0.00005	1.30	0.0145	-	< 0.00005	< 0.0001	0.00490	0.000160	0.000240	0.00320
	WQ1	Surface		6/18/2012	< 0.00005	1.40	0.0160	-	< 0.00005	< 0.0001	0.00200	0.000260	0.000310	0.00420
	WQ1	Surface		7/16/2012	< 0.00005	1.80	0.0199	-	< 0.00005	< 0.0001	0.00340	0.000140	0.000260	0.00310
	WQ1	Surface		8/13/2012	< 0.00005	3.60	0.0334	-	< 0.00005	< 0.0001	0.00500	0.000140	0.000500	0.0103
	WQ1	Surface		9/17/2012	< 0.00005	2.40	0.0271	-	< 0.00005	< 0.0001	0.00150	0.0000800	0.000210	0.00420
	WQ1	Surface		10/16/2012	< 0.00005	2.50	0.0260	-	< 0.00005	< 0.0001	0.00210	0.0000900	0.000210	0.00570
	WQ1	Surface		11/12/2012	< 0.00005	2.30	0.0235	-	< 0.00005	< 0.0001	0.00100	0.0000800	< 0.00005	0.00390
	WQ1	Surface		12/10/2012	< 0.00005	2.30	0.0261	-	< 0.00005	< 0.0001	0.000900	0.0000700	< 0.00005	0.00500
	WQ1	Surface		5/14/2013	< 0.00005	1.30	0.0179	-	< 0.00005	< 0.0001	0.00400	0.000180	< 0.00005	0.00380
	WQ1	Surface	Dup	5/21/2013	< 0.00005	1.40	0.0168	-	< 0.00005	< 0.0001	0.00270	0.000140	< 0.00005	0.00140
	WQ1	Surface		5/21/2013	< 0.00005	1.40	0.0169	-	< 0.00005	< 0.0001	0.00260	0.000150	< 0.00005	0.00170
	WQ1	Surface		5/28/2013	< 0.00005	1.40	< 0.000005	-	< 0.00005	< 0.0001	0.00320	0.000170	< 0.00005	< 0.0005
	WQ1	Surface		6/4/2013	< 0.00005	1.40	0.0153	-	< 0.00005	< 0.0001	0.00240	0.000170	< 0.00005	0.00160
	WQ1	Surface		6/11/2013	< 0.00005	1.40	0.0152	-	< 0.00005	< 0.0001	0.00150	0.000170	< 0.00005	0.00270
	WQ1	Surface		6/18/2013	< 0.00005	< 0.5	0.0165	-	< 0.00005	< 0.0001	0.00150	0.000140	< 0.00005	0.00320
VA20A2211-005	WQ1	Surface	Dup	2/20/2020	<0.000010	1.92	0.0284	1.04	<0.000010	<0.00010	0.000880	0.0000710	<0.00050	0.00190
VA20A2211-001	WQ1	Surface		2/20/2020	<0.000010	1.92	0.0268	1.01	<0.000010	<0.00010	0.000920	0.0000690	<0.00050	0.00220
VA20A6810-001	WQ1	Surface		5/19/2020	<0.000010	1.28	0.0164	<0.50	<0.000010	<0.00010	0.00180	0.000204	<0.00050	0.00180
VA20B2212-002	WQ1	Surface		8/6/2020	<0.000010	2.24	0.0250	<0.50	<0.000010	<0.00010	0.00148	0.000128	<0.00050	0.00210
VA20C1415-001	WQ1	Surface		11/19/2020	<0.000010	1.54	0.0182	<0.50	<0.000010	<0.00010	0.00117	0.000111	<0.00050	0.00150
	WQ10	Surface		3/30/2011	< 0.00005	3.20	0.0928	-	< 0.00005	< 0.0001	0.000300	0.000270	< 0.00005	0.00280
	WQ10	Surface		4/19/2011	< 0.00005	3.20	0.0933	-	< 0.00005	< 0.0001	0.000400	0.000300	< 0.00005	0.00200
	WQ10	Surface		5/17/2011	< 0.00005	1.50	0.0286	-	< 0.00005	< 0.0001	0.00380	0.000120	0.000440	0.00360
	WQ10	Surface		5/25/2011	< 0.00005	1.30	0.0262	-	< 0.00005	< 0.0001	0.00240	0.000140	< 0.00005	0.00240

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals									
					Silver (Ag)-Dissolved	Sodium (Na)-Dissolved	Strontium (Sr)-Dissolved	Sulfur (S)-Dissolved	Thallium (Tl)-Dissolved	Tin (Sn)-Dissolved	Titanium (Ti)-Dissolved	Uranium (U)-Dissolved	Vanadium (V)-Dissolved	Zinc (Zn)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ10	Surface		5/31/2011	< 0.00005	1.20	0.0229	-	< 0.00005	< 0.0001	0.00180	0.000150	0.0000700	0.00480
	WQ10	Surface		6/7/2011	< 0.00005	1.20	0.0222	-	< 0.00005	< 0.0001	0.00150	0.000150	0.000110	0.00760
	WQ10	Surface		6/14/2011	< 0.00005	1.30	0.0236	-	< 0.00005	< 0.0001	0.00120	0.000180	0.000140	0.00190
	WQ10	Surface		7/19/2011	< 0.00005	1.60	0.0320	-	< 0.00005	< 0.0001	0.00140	0.000170	0.000240	0.00190
	WQ10	Surface		8/16/2011	< 0.00005	2.30	0.0513	-	< 0.00005	< 0.0001	0.000600	0.000140	0.000210	0.00610
	WQ10	Surface		9/20/2011	< 0.00005	2.80	0.0819	-	< 0.00005	< 0.0001	< 0.0002	0.000180	< 0.00005	< 0.0005
	WQ10	Surface		10/18/2011	< 0.00005	2.40	0.0574	-	< 0.00005	< 0.0001	0.000400	0.000130	0.000100	< 0.0005
	WQ10	Surface		11/15/2011	< 0.00005	2.60	0.0663	-	< 0.00005	< 0.0001	0.000400	0.000160	0.000270	0.00160
	WQ10	Surface		12/12/2011	< 0.00005	2.80	0.0788	-	< 0.00005	< 0.0001	0.000300	0.000180	0.000180	< 0.0005
	WQ10	Surface		1/12/2012	< 0.00005	3.00	0.0870	-	< 0.00005	< 0.0001	< 0.0002	0.000210	0.000200	0.000900
	WQ10	Surface		2/13/2012	< 0.00005	3.10	0.0908	-	< 0.00005	< 0.0001	< 0.0002	0.000260	< 0.00005	< 0.0005
	WQ10	Surface		3/12/2012	< 0.00005	3.00	0.0863	-	< 0.00005	< 0.0001	< 0.0002	0.000270	< 0.00005	0.00130
	WQ10	Surface		4/16/2012	< 0.00005	3.10	0.0819	-	< 0.00005	< 0.0001	0.000200	0.000210	0.000130	< 0.0005
	WQ10	Surface		5/14/2012	< 0.00005	1.70	0.0340	-	< 0.00005	< 0.0001	0.00270	0.000130	0.000270	0.00400
	WQ10	Surface		5/22/2012	< 0.00005	1.60	0.0300	-	< 0.00005	< 0.0001	0.00280	0.000100	0.000220	0.00290
	WQ10	Surface		5/29/2012	< 0.00005	1.70	0.0291	-	< 0.00005	< 0.0001	0.00190	0.000140	0.000110	0.00270
	WQ10	Surface		6/5/2012	< 0.00005	1.60	0.0272	-	< 0.00005	< 0.0001	0.00160	0.000140	< 0.00005	< 0.0005
	WQ10	Surface		6/12/2012	< 0.00005	1.50	0.0255	-	< 0.00005	< 0.0001	0.00370	0.000160	0.000220	0.00220
	WQ10	Surface		6/19/2012	< 0.00005	1.70	0.0276	-	< 0.00005	< 0.0001	0.00200	0.000170	0.000320	0.00350
	WQ10	Surface		7/17/2012	< 0.00005	2.40	0.0521	-	< 0.00005	< 0.0001	0.000600	0.000110	0.000220	0.000900
	WQ10	Surface		8/14/2012	< 0.00005	2.90	0.0710	-	< 0.00005	< 0.0001	0.00110	0.000130	0.000310	0.00190
	WQ10	Surface		9/18/2012	< 0.00005	3.10	0.0859	-	< 0.00005	< 0.0001	0.000200	0.000200	0.000230	< 0.0005
	WQ10	Surface		10/15/2012	< 0.00005	3.60	0.0842	-	< 0.00005	< 0.0001	0.000200	0.000200	0.000220	0.00250
	WQ10	Surface		11/13/2012	< 0.00005	3.20	0.0761	-	< 0.00005	< 0.0001	0.000400	0.000190	< 0.00005	0.00230
	WQ10	Surface		1/13/2013	< 0.00005	3.60	0.0981	-	< 0.00005	< 0.0001	0.000200	0.000320	< 0.00005	0.00220
	WQ10	Surface		2/12/2013	< 0.00005	3.70	0.0910	-	< 0.00005	< 0.0001	< 0.0002	0.000210	< 0.00005	0.0119
	WQ10	Surface		3/11/2013	< 0.00005	3.70	0.0983	-	< 0.00005	< 0.0001	0.000300	0.000290	< 0.00005	0.00180
	WQ10	Surface		4/15/2013	< 0.00005	2.70	0.0747	-	< 0.00005	< 0.0001	0.00110	0.000170	< 0.00005	0.00150
	WQ10	Surface		5/13/2013	< 0.00005	1.40	0.0285	-	< 0.00005	< 0.0001	0.00320	0.000160	< 0.00005	0.00420
	WQ10	Surface		5/22/2013	< 0.00005	1.60	0.0302	-	< 0.00005	< 0.0001	0.00210	0.000140	< 0.00005	0.00200
	WQ10	Surface		5/27/2013	< 0.00005	1.70	0.00657	-	< 0.00005	< 0.0001	0.00280	0.000160	< 0.00005	< 0.0005
	WQ10	Surface		6/6/2013	< 0.00005	1.60	0.0293	-	< 0.00005	< 0.0001	0.00200	0.000170	< 0.00005	< 0.0005
	WQ10	Surface		6/10/2013	< 0.00005	1.70	0.0319	-	< 0.00005	< 0.0001	0.00130	0.000170	< 0.00005	0.000700
	WQ10	Surface		6/17/2013	< 0.00005	< 0.5	0.0317	-	< 0.00005	< 0.0001	0.00170	0.000140	< 0.00005	0.00320
	WQ10	Surface		4/13/2014	< 0.00005	3.00	0.0812	-	< 0.00005	< 0.0001	0.000300	0.000240	< 0.00005	0.00360
	WQ10	Surface		7/2/2014	< 0.00005	2.30	0.0497	-	< 0.00005	< 0.0001	0.000600	0.000130	0.0000700	0.00240
	WQ10	Surface	Dup	9/24/2014	< 0.00005	3.80	0.110	-	< 0.00005	< 0.0001	< 0.002	0.000290	0.000120	0.00250
	WQ10	Surface		9/24/2014	< 0.00005	3.70	0.111	-	< 0.00005	< 0.0001	< 0.0002	0.000290	0.000110	< 0.0005
	WQ10	Surface		12/8/2014	< 0.00005	3.30	0.0922	-	< 0.00005	< 0.0001	< 0.0002	0.000240	< 0.00005	< 0.0005
L1913006-3	WQ10	Surface		4/11/2017	< 0.000010	3.30	0.0878	-	< 0.000010	< 0.00010	< 0.010	0.000254	< 0.00050	< 0.0030
L1925486-1	WQ10	Surface		5/10/2017	< 0.000010	< 2.0	0.0363	-	< 0.000010	< 0.00010	< 0.010	0.000128	< 0.00050	< 0.0030
L1939712-10	WQ10	Surface		6/7/2017	< 0.000010	< 2.0	0.0294	-	< 0.000010	< 0.00010	< 0.010	0.000170	< 0.00050	< 0.0030
L1961670-2	WQ10	Surface		7/18/2017	< 0.000010	2.70	0.0625	-	< 0.000010	< 0.00010	< 0.010	0.000141	< 0.00050	< 0.0030
L1984944-10	WQ10	Surface	Dup	8/30/2017	< 0.000010	3.40	0.102	0.860	< 0.000010	< 0.00010	< 0.010	0.000252	< 0.00050	< 0.0030

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals									
					Silver (Ag)-Dissolved	Sodium (Na)-Dissolved	Strontium (Sr)-Dissolved	Sulfur (S)-Dissolved	Thallium (Tl)-Dissolved	Tin (Sn)-Dissolved	Titanium (Ti)-Dissolved	Uranium (U)-Dissolved	Vanadium (V)-Dissolved	Zinc (Zn)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1984944-1	WQ10	Surface		8/30/2017	<0.000010	3.50	0.104	0.830	<0.000010	<0.00010	<0.010	0.000258	<0.00050	<0.0030
L1988832-1	WQ10	Surface		9/8/2017	<0.000010	3.40	0.0954	0.880	<0.000010	<0.00010	<0.010	0.000226	<0.00050	<0.0030
L2011329-2	WQ10	Surface		10/19/2017	<0.000010	2.40	0.0507	0.820	<0.000010	<0.00010	<0.010	0.000160	<0.00050	<0.0030
L2020946-1	WQ10	Surface		11/8/2017	<0.000010	2.00	0.0582	<0.50	<0.000010	<0.00010	<0.010	0.000150	<0.00050	<0.0030
L2035356-4	WQ10	Surface		12/12/2017	<0.000010	2.60	0.0592	<0.50	<0.000010	<0.00010	<0.010	0.000157	<0.00050	<0.0030
L2049678-2	WQ10	Surface		1/24/2018	<0.000010	3.10	0.0763	0.600	<0.000010	<0.00010	<0.010	0.000198	<0.00050	<0.0030
L2057025-2	WQ10	Surface		2/13/2018	<0.000010	3.00	0.0759	0.860	<0.000010	<0.00010	<0.010	0.000197	<0.00050	<0.0030
L2074294-8	WQ10	Surface	Dup	3/28/2018	<0.000010	3.20	0.0910	0.960	<0.000010	<0.00010	<0.010	0.000241	<0.00050	<0.0030
L2074294-3	WQ10	Surface		3/28/2018	<0.000010	3.10	0.0812	0.900	<0.000010	<0.00010	<0.010	0.000231	<0.00050	<0.0030
L2081503-4	WQ10	Surface		4/17/2018	<0.000010	3.10	0.0833	0.760	<0.000010	<0.00010	<0.010	0.000216	<0.00050	<0.0030
L2097084-3	WQ10	Surface		5/16/2018	<0.000010	<2.0	0.0204	<0.50	<0.000010	<0.00010	<0.010	0.000147	<0.00050	<0.0030
L2103632-3	WQ10	Surface		5/29/2018	<0.000010	<2.0	0.0292	<0.50	<0.000010	<0.00010	<0.010	0.000156	<0.00050	<0.0030
L2132986-2	WQ10	Surface		7/18/2018	<0.000010	2.90	0.0653	0.520	<0.000010	<0.00010	<0.010	0.000142	<0.00050	<0.0010
L2143640-6	WQ10	Surface		8/7/2018	<0.000010	2.90	0.0703	<0.50	<0.000010	<0.00010	<0.010	0.000161	<0.00050	<0.0010
L2163669-2	WQ10	Surface		9/11/2018	<0.000010	3.30	0.0842	1.00	<0.000010	<0.00010	<0.010	0.000198	<0.00050	<0.0010
L2188218-1	WQ10	Surface		10/26/2018	<0.000010	2.50	0.0566	<0.50	<0.000010	<0.00010	<0.010	0.000136	<0.00050	<0.0010
L2204508-3	WQ10	Surface		11/29/2018	<0.000010	2.00	0.0515	<0.50	<0.000010	<0.00010	<0.010	0.000124	<0.00050	<0.0010
L2213246-1	WQ10	Surface		12/18/2018	<0.000010	2.60	0.0639	<0.50	<0.000010	<0.00010	<0.010	0.000144	<0.00050	<0.0010
L2227701-1	WQ10	Surface		1/30/2019	<0.000010	3.00	0.0676	0.690	<0.000010	<0.00010	<0.010	0.000171	<0.00050	<0.0010
L2232050-6	WQ10	Surface		2/11/2019	<0.000010	3.00	0.0732	0.850	<0.000010	<0.00010	<0.010	0.000219	<0.00050	<0.0010
L2244756-1	WQ10	Surface		3/13/2019	<0.000010	3.30	0.0943	0.860	<0.000010	<0.00010	<0.010	0.000304	<0.00050	<0.0010
L2256053-5	WQ10	Surface	Dup	4/8/2019	<0.000010	2.90	0.0663	0.650	<0.000010	<0.00010	<0.010	0.000170	<0.00050	<0.0010
L2256053-1	WQ10	Surface		4/8/2019	<0.000010	2.60	0.0681	0.620	<0.000010	<0.00010	<0.010	0.000162	<0.00050	<0.0010
L2273497-1	WQ10	Surface		5/13/2019	<0.000010	<2.0	0.0291	<0.50	<0.000010	<0.00010	<0.010	0.000161	<0.00050	<0.0010
L2285579-6	WQ10	Surface		6/3/2019	<0.000010	<2.0	0.0346	<0.50	<0.000010	<0.00010	<0.010	0.000160	<0.00050	<0.0010
L2312637-1	WQ10	Surface		7/16/2019	<0.000010	<2.0	0.0398	<0.50	<0.000010	<0.00010	<0.010	0.000132	<0.00050	<0.0010
L2326388-1	WQ10	Surface		8/8/2019	<0.000010	2.10	0.0453	<0.50	<0.000010	<0.00010	<0.010	0.000136	<0.00050	<0.0010
L2350223-1	WQ10	Surface		9/17/2019	<0.000010	2.50	0.0593	<0.50	<0.000010	<0.00010	<0.010	0.000133	<0.00050	<0.0010
L2372667-1	WQ10	Surface		10/23/2019	<0.000010	2.10	0.0418	<0.50	<0.000010	<0.00010	<0.010	0.000120	<0.00050	<0.0010
L2383392-1	WQ10	Surface		11/14/2019	<0.000010	2.00	0.0378	<0.50	<0.000010	<0.00010	<0.010	0.000133	<0.00050	<0.0010
VA19A0726-004	WQ10	Surface		12/16/2019	<0.000010	2.25	0.0460	<0.50	<0.000010	<0.00010	0.000910	0.000140	<0.00050	<0.0010
VA20A0812-001	WQ10	Surface		1/23/2020	<0.000010	2.64	0.0626	0.680	<0.000010	<0.00010	0.000430	0.000156	<0.00050	<0.0010
VA20A1887-001	WQ10	Surface		2/13/2020	<0.000010	2.55	0.0712	0.810	<0.000010	<0.00010	0.000330	0.000182	<0.00050	<0.0010
VA20A3516-001	WQ10	Surface		3/16/2020	<0.000010	3.22	0.0754	0.800	<0.000010	<0.00010	<0.00030	0.000215	<0.00050	<0.0010
VA20A4369-001	WQ10	Surface		4/1/2020	<0.000010	3.10	0.0821	0.680	<0.000010	<0.00010	<0.00030	0.000202	<0.00050	<0.0010
VA20A6218-001	WQ10	Surface		5/7/2020	<0.000010	1.65	0.0312	<0.50	<0.000010	<0.00010	0.00194	0.000116	<0.00050	0.00160
VA20A6356-002	WQ10	Surface		5/11/2020	<0.000010	1.51	0.0295	<0.50	<0.000010	<0.00010	0.00223	0.000118	<0.00050	0.00120
VA20A6810-003	WQ10	Surface		5/19/2020	<0.000010	1.50	0.0263	<0.50	<0.000010	<0.00010	0.00178	0.000172	<0.00050	0.00280
VA20A7202-003	WQ10	Surface		5/26/2020	<0.000010	1.47	0.0270	<0.50	<0.000010	<0.00010	0.00112	0.000147	<0.00050	0.00100
VA20A7672-002	WQ10	Surface		6/2/2020	<0.000010	1.52	0.0295	<0.50	<0.000010	<0.00010	0.000920	0.000163	<0.00050	<0.0010
VA20A9918-003	WQ10	Surface		7/6/2020	<0.000010	1.94	0.0383	<0.50	<0.000010	<0.00010	0.00107	0.000154	<0.00050	<0.0010
VA20B2156-008	WQ10	Surface	Dup	8/5/2020	<0.000010	2.58	0.0649	0.520	<0.000010	<0.00010	0.000400	0.000139	<0.00050	<0.0010
VA20B2156-001	WQ10	Surface		8/5/2020	<0.000010	2.46	0.0650	<0.50	<0.000010	<0.00010	0.000370	0.000136	<0.00050	<0.0010
VA20B2426-004	WQ10	Surface		8/10/2020	<0.000010	2.38	0.0545	<0.50	<0.000010	<0.00010	0.000560	0.000138	<0.00050	<0.0010

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LabID	Site	Depth	QAQC	Date	Total Metals									
					Silver (Ag)-Dissolved	Sodium (Na)-Dissolved	Strontium (Sr)-Dissolved	Sulfur (S)-Dissolved	Thallium (Tl)-Dissolved	Tin (Sn)-Dissolved	Titanium (Ti)-Dissolved	Uranium (U)-Dissolved	Vanadium (V)-Dissolved	Zinc (Zn)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
VA20B3264-002	WQ10	Surface		8/19/2020	<0.000010	2.58	0.0602	<0.50	<0.000010	<0.00010	0.000500	0.000141	<0.00050	<0.0010
VA20B3609-001	WQ10	Surface		8/24/2020	<0.000010	2.44	0.0601	0.550	<0.000010	<0.00010	0.000630	0.000172	<0.00050	<0.0010
VA20B4313-001	WQ10	Surface		9/1/2020	<0.000010	2.56	0.0628	<0.50	<0.000010	<0.00010	0.000360	0.000136	<0.00050	<0.0010
VA20B7624-004	WQ10	Surface		10/6/2020	<0.000010	2.94	0.0735	<0.50	<0.000010	<0.00010	0.000320	0.000152	<0.00050	<0.0010
VA20C0197-003	WQ10	Surface		11/4/2020	<0.000010	1.69	0.0360	<0.50	<0.000010	<0.00010	0.00323	0.000151	<0.00050	0.00110
	WQ11	Surface		3/30/2011	< 0.00005	3.50	0.121	-	< 0.00005	< 0.0001	0.000900	0.000320	< 0.00005	0.00580
	WQ11	Surface		4/19/2011	< 0.00005	3.30	0.0931	-	< 0.00005	< 0.0001	0.00140	0.000220	< 0.00005	0.00160
	WQ11	Surface		5/17/2011	< 0.00005	1.60	0.0335	-	< 0.00005	< 0.0001	0.00670	0.000100	0.000640	0.00540
	WQ11	Surface		5/25/2011	< 0.00005	1.40	0.0312	-	< 0.00005	< 0.0001	0.00540	0.000150	0.000220	0.00180
	WQ11	Surface		5/31/2011	< 0.00005	1.40	0.0276	-	< 0.00005	< 0.0001	0.00460	0.000160	0.000340	0.00230
	WQ11	Surface		6/6/2011	< 0.00005	1.40	0.0268	-	< 0.00005	< 0.0001	0.00350	0.000150	0.000340	0.00370
	WQ11	Surface		6/13/2011	< 0.00005	1.50	0.0315	-	< 0.00005	< 0.0001	0.00340	0.000170	0.000410	0.00190
	WQ11	Surface		7/18/2011	< 0.00005	1.90	0.0390	-	< 0.00005	< 0.0001	0.00480	0.000210	0.000560	0.00150
	WQ11	Surface		8/15/2011	< 0.00005	2.30	0.0561	-	< 0.00005	< 0.0001	0.00260	0.000140	0.000360	0.00130
	WQ11	Surface		9/19/2011	< 0.00005	3.00	0.0956	-	< 0.00005	< 0.0001	0.000600	0.000130	< 0.00005	< 0.0005
	WQ11	Surface		10/17/2011	< 0.00005	2.50	0.0624	-	< 0.00005	< 0.0001	0.00240	0.000110	0.000280	< 0.0005
	WQ11	Surface		11/14/2011	< 0.00005	2.60	0.0710	-	< 0.00005	< 0.0001	0.00190	0.000120	0.000300	0.00140
	WQ11	Surface		12/12/2011	< 0.00005	2.90	0.0880	-	< 0.00005	< 0.0001	0.00130	0.000130	0.000200	< 0.0005
	WQ11	Surface		5/15/2012	< 0.00005	1.80	0.0353	-	< 0.00005	< 0.0001	0.00500	0.000160	0.000570	0.00180
	WQ11	Surface		5/22/2012	< 0.00005	1.60	0.0313	-	< 0.00005	< 0.0001	0.00520	0.000140	0.000500	0.00700
	WQ11	Surface		5/28/2012	< 0.00005	1.70	0.0286	-	< 0.00005	< 0.0001	0.00360	0.000150	0.000380	0.00240
	WQ11	Surface		6/4/2012	< 0.00005	1.60	0.0312	-	< 0.00005	< 0.0001	0.00270	0.000130	0.000120	< 0.0005
	WQ11	Surface		6/11/2012	< 0.00005	1.80	0.0342	-	< 0.00005	< 0.0001	0.00310	0.000130	0.000420	0.00110
	WQ11	Surface		6/18/2012	< 0.00005	1.80	0.0358	-	< 0.00005	< 0.0001	0.00320	0.000150	0.000540	0.00280
	WQ11	Surface		7/16/2012	< 0.00005	2.50	0.0599	-	0.000110	< 0.0001	0.00170	0.000160	0.000370	< 0.0005
	WQ11	Surface		8/13/2012	< 0.00005	2.70	0.0664	-	< 0.00005	< 0.0001	0.00170	0.000110	0.000420	0.00200
	WQ11	Surface		9/17/2012	< 0.00005	3.20	0.0926	-	< 0.00005	< 0.0001	0.000700	0.000130	0.000230	< 0.0005
	WQ11	Surface		10/15/2012	< 0.00005	3.90	0.113	-	< 0.00005	< 0.0001	0.000400	0.000250	0.000190	0.00210
	WQ11	Surface		11/13/2012	< 0.00005	3.20	0.0825	-	< 0.00005	< 0.0001	0.00150	0.000140	< 0.00005	0.000900
	WQ11	Surface		1/13/2013	< 0.00005	4.00	0.127	-	< 0.00005	< 0.0001	0.000400	0.000280	< 0.00005	0.00230
	WQ11	Surface		2/12/2013	< 0.00005	4.40	0.129	-	< 0.00005	< 0.0001	0.000400	0.000350	< 0.00005	0.00330
	WQ11	Surface		4/15/2013	< 0.00005	2.30	0.0571	-	< 0.00005	< 0.0001	0.00430	0.000100	< 0.00005	0.00160
	WQ11	Surface		5/13/2013	< 0.00005	1.40	0.0298	-	< 0.00005	< 0.0001	0.00510	0.000160	0.0000800	0.00280
	WQ11	Surface		5/22/2013	< 0.00005	1.70	0.0344	-	< 0.00005	< 0.0001	0.00510	0.000140	< 0.00005	0.00160
	WQ11	Surface		5/27/2013	< 0.00005	1.80	0.0147	-	< 0.00005	< 0.0001	0.00590	0.000150	< 0.00005	< 0.0005
	WQ11	Surface		6/6/2013	< 0.00005	1.80	0.0373	-	< 0.00005	< 0.0001	0.00610	0.000170	0.000170	< 0.0005
	WQ11	Surface		6/10/2013	< 0.00005	1.90	0.0402	-	< 0.00005	< 0.0001	0.00530	0.000170	< 0.00005	< 0.0005
	WQ11	Surface		6/17/2013	< 0.00005	< 0.5	0.0386	-	< 0.00005	< 0.0001	0.00470	0.000140	< 0.00005	0.00140
L1762266-2	WQ11	Surface		4/27/2016	0.0000150	<2.0	0.0356	-	<0.000010	<0.00010	<0.010	0.000188	0.000670	<0.0030
L1764648-1	WQ11	Surface		5/3/2016	<0.000010	<2.0	0.0383	-	<0.000010	<0.00010	<0.010	0.000192	0.000600	<0.0030
L1767107-6	WQ11	Surface	Dup	5/9/2016	<0.000010	2.00	0.0389	-	<0.000010	<0.00010	<0.010	0.000147	0.000610	<0.0030
L1767107-2	WQ11	Surface		5/9/2016	<0.000010	2.10	0.0389	-	<0.000010	<0.00010	<0.010	0.000153	0.000630	<0.0030
L1770672-5	WQ11	Surface	Dup	5/16/2016	<0.000010	2.20	0.0470	-	<0.000010	<0.00010	<0.010	0.000130	0.000580	<0.0030
L1770672-1	WQ11	Surface		5/16/2016	<0.000010	2.20	0.0473	-	<0.000010	<0.00010	<0.010	0.000129	0.000590	<0.0030

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals									
					Silver (Ag)-Dissolved	Sodium (Na)-Dissolved	Strontium (Sr)-Dissolved	Sulfur (S)-Dissolved	Thallium (Tl)-Dissolved	Tin (Sn)-Dissolved	Titanium (Ti)-Dissolved	Uranium (U)-Dissolved	Vanadium (V)-Dissolved	Zinc (Zn)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1774541-1	WQ11	Surface		5/25/2016	<0.000010	2.30	0.0535	-	<0.000010	<0.00010	<0.010	0.000118	<0.00050	<0.0030
L1788643-1	WQ11	Surface		6/22/2016	<0.000010	2.10	0.0389	-	<0.000010	<0.00010	<0.010	0.000183	0.000660	<0.0030
L1808945-1	WQ11	Surface		8/3/2016	<0.000010	2.40	0.0569	-	<0.000010	<0.00010	<0.010	0.000141	0.000570	<0.0030
L1812856-1	WQ11	Surface		8/10/2016	<0.000010	2.50	0.0582	-	<0.000010	<0.00010	<0.010	0.000143	0.000620	<0.0030
L1815654-1	WQ11	Surface		8/16/2016	<0.000010	2.90	0.0683	-	<0.000010	<0.00010	<0.010	0.000114	0.000520	<0.0030
L1819041-6	WQ11	Surface		8/23/2016	<0.000010	2.70	0.0650	-	<0.000010	<0.00010	<0.010	0.000135	0.000610	<0.0030
L1823224-4	WQ11	Surface		8/31/2016	<0.000010	2.70	0.0713	-	<0.000010	<0.00010	<0.010	0.000121	0.000540	<0.0030
L1826303-3	WQ11	Surface		9/7/2016	<0.000010	2.30	0.0575	-	<0.000010	<0.00010	<0.010	0.000132	<0.00050	<0.0030
	WQ12	Surface		4/19/2011	< 0.00005	2.20	0.0580	-	< 0.00005	< 0.0001	0.000900	0.000140	< 0.00005	0.00260
	WQ12	Surface		5/17/2011	< 0.00005	1.30	0.0329	-	< 0.00005	< 0.0001	0.00370	0.000160	0.000380	0.00220
	WQ12	Surface		5/24/2011	< 0.00005	1.20	0.0326	-	< 0.00005	< 0.0001	0.00230	0.000220	< 0.00005	0.00160
	WQ12	Surface		5/30/2011	< 0.00005	1.10	0.0285	-	< 0.00005	< 0.0001	0.00180	0.000220	< 0.00005	0.00210
	WQ12	Surface		6/6/2011	< 0.00005	1.30	0.0306	-	< 0.00005	< 0.0001	0.00120	0.000200	< 0.00005	0.00450
	WQ12	Surface		6/13/2011	< 0.00005	1.30	0.0372	-	< 0.00005	< 0.0001	0.00100	0.000230	0.000600	0.00190
	WQ12	Surface		7/18/2011	< 0.00005	1.50	0.0404	-	< 0.00005	< 0.0001	0.00120	0.000230	0.000170	0.00220
	WQ12	Surface		8/15/2011	< 0.00005	1.70	0.0448	-	< 0.00005	< 0.0001	0.00100	0.000200	0.000120	0.000600
	WQ12	Surface		9/19/2011	< 0.00005	1.90	0.0528	-	< 0.00005	< 0.0001	0.000600	0.000110	< 0.00005	0.00360
	WQ12	Surface		10/17/2011	< 0.00005	1.80	0.0466	-	< 0.00005	< 0.0001	0.000900	0.000160	0.000700	< 0.0005
	WQ12	Surface		11/14/2011	< 0.00005	1.80	0.0470	-	< 0.00005	< 0.0001	0.000800	0.000150	0.000100	0.00150
	WQ12	Surface		12/12/2011	< 0.00005	2.00	0.0552	-	< 0.00005	< 0.0001	0.000700	0.000150	0.000800	< 0.0005
	WQ12	Surface		1/12/2012	< 0.00005	2.00	0.0554	-	< 0.00005	< 0.0001	0.000500	0.000150	0.000500	0.00170
	WQ12	Surface		2/13/2012	< 0.00005	2.00	0.0563	-	< 0.00005	< 0.0001	0.000500	0.000140	< 0.00005	0.00900
	WQ12	Surface	Dup	3/12/2012	< 0.00005	2.00	0.0529	-	< 0.00005	< 0.0001	0.000300	0.000150	< 0.00005	0.00250
	WQ12	Surface		3/12/2012	< 0.00005	1.90	0.0537	-	< 0.00005	< 0.0001	0.000300	0.000150	< 0.00005	0.00360
	WQ12	Surface		4/16/2012	< 0.00005	1.90	0.0518	-	< 0.00005	< 0.0001	0.00200	0.000130	0.000800	0.000600
	WQ12	Surface		5/15/2012	< 0.00005	1.40	0.0373	-	< 0.00005	< 0.0001	0.00270	0.000190	0.000230	0.00150
	WQ12	Surface		5/22/2012	< 0.00005	1.30	0.0331	-	< 0.00005	< 0.0001	0.00210	0.000170	0.000140	0.00300
	WQ12	Surface		5/28/2012	< 0.00005	1.50	0.0381	-	< 0.00005	< 0.0001	0.00130	0.000190	< 0.00005	0.0120
	WQ12	Surface		6/4/2012	< 0.00005	1.50	0.0385	-	< 0.00005	< 0.0001	0.000900	0.000180	< 0.00005	< 0.0005
	WQ12	Surface		6/11/2012	< 0.00005	1.50	0.0393	-	< 0.00005	< 0.0001	0.00120	0.000180	< 0.00005	0.00110
	WQ12	Surface		6/18/2012	< 0.00005	1.50	0.0395	-	< 0.00005	< 0.0001	0.00100	0.000200	0.000220	0.00390
	WQ12	Surface		7/16/2012	< 0.00005	1.80	0.0493	-	< 0.00005	< 0.0001	0.000800	0.000150	0.000140	0.00110
	WQ12	Surface		8/13/2012	< 0.00005	2.10	0.0644	-	< 0.00005	< 0.0001	0.000800	0.000110	0.000280	0.00420
	WQ12	Surface		9/17/2012	< 0.00005	2.20	0.0645	-	< 0.00005	< 0.0001	0.000700	0.000800	0.000190	< 0.0005
	WQ12	Surface		10/15/2012	< 0.00005	2.60	0.0661	-	< 0.00005	< 0.0001	0.000700	0.000800	0.000170	0.00240
	WQ12	Surface		11/13/2012	< 0.00005	2.20	0.0538	-	< 0.00005	< 0.0001	0.000700	0.000110	< 0.00005	0.00120
	WQ12	Surface		1/13/2013	< 0.00005	2.20	0.0509	-	< 0.00005	< 0.0001	0.000900	0.000130	< 0.00005	0.00270
	WQ12	Surface		2/12/2013	< 0.00005	2.20	0.0512	-	< 0.00005	< 0.0001	0.000500	0.000800	< 0.00005	0.00270
	WQ12	Surface		3/11/2013	< 0.00005	2.30	0.0523	-	< 0.00005	< 0.0001	0.000600	0.000110	< 0.00005	0.00170
	WQ12	Surface		4/15/2013	< 0.00005	1.80	0.0493	-	< 0.00005	< 0.0001	0.00290	0.000140	< 0.00005	0.00190
	WQ12	Surface		5/13/2013	< 0.00005	1.30	0.0399	-	< 0.00005	< 0.0001	0.00160	0.000190	< 0.00005	0.00250
	WQ12	Surface		5/22/2013	< 0.00005	1.40	0.0378	-	< 0.00005	< 0.0001	0.00150	0.000160	< 0.00005	0.00140
	WQ12	Surface		5/27/2013	< 0.00005	1.60	0.0191	-	< 0.00005	< 0.0001	0.00160	0.000190	< 0.00005	< 0.0005
	WQ12	Surface		6/6/2013	< 0.00005	1.50	0.0389	-	< 0.00005	< 0.0001	0.00120	0.000210	< 0.00005	0.00120

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals									
					Silver (Ag)-Dissolved	Sodium (Na)-Dissolved	Strontium (Sr)-Dissolved	Sulfur (S)-Dissolved	Thallium (Tl)-Dissolved	Tin (Sn)-Dissolved	Titanium (Ti)-Dissolved	Uranium (U)-Dissolved	Vanadium (V)-Dissolved	Zinc (Zn)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ12	Surface		6/10/2013	< 0.00005	1.50	0.0416	-	< 0.00005	< 0.0001	0.00120	0.000220	< 0.00005	0.00150
	WQ12	Surface		6/17/2013	< 0.00005	< 0.5	0.0393	-	< 0.00005	< 0.0001	0.000900	0.000200	< 0.00005	0.00120
	WQ13	Surface		4/19/2011	< 0.00005	3.60	0.116	-	< 0.00005	< 0.0001	0.000300	0.000170	< 0.00005	0.00100
	WQ13	Surface		5/17/2011	< 0.00005	2.70	0.0679	-	< 0.00005	< 0.0001	0.00100	0.0000600	0.000390	0.00170
	WQ13	Surface		5/24/2011	< 0.00005	2.50	0.0751	-	< 0.00005	< 0.0001	0.00110	0.000100	0.0000900	0.00320
	WQ13	Surface		5/30/2011	< 0.00005	2.60	0.0732	-	< 0.00005	< 0.0001	0.000900	0.0000900	0.000200	0.00530
	WQ13	Surface		6/6/2011	< 0.00005	2.60	0.0743	-	< 0.00005	< 0.0001	0.000900	0.0000900	0.000230	0.00380
	WQ13	Surface		6/13/2011	< 0.00005	2.60	0.0758	-	< 0.00005	< 0.0001	0.000500	0.000100	0.000260	0.00150
	WQ13	Surface		7/18/2011	< 0.00005	2.60	0.0780	-	< 0.00005	< 0.0001	0.000600	0.0000900	0.000360	0.00110
	WQ13	Surface		8/15/2011	< 0.00005	3.00	0.0903	-	< 0.00005	< 0.0001	0.000300	0.0000900	0.000280	0.00390
	WQ13	Surface		9/19/2011	< 0.00005	3.20	0.101	-	< 0.00005	< 0.0001	0.000300	0.0000900	0.0000600	< 0.0005
	WQ13	Surface		10/17/2011	< 0.00005	3.20	0.0927	-	< 0.00005	< 0.0001	0.000300	0.0000900	0.000200	< 0.0005
	WQ13	Surface		11/14/2011	< 0.00005	3.30	0.0951	-	< 0.00005	< 0.0001	0.000300	0.000100	0.000300	< 0.0005
	WQ13	Surface		12/13/2011	< 0.00005	3.40	0.102	-	< 0.00005	< 0.0001	< 0.0002	0.0000900	0.000180	< 0.0005
	WQ13	Surface		1/12/2012	< 0.00005	3.60	0.112	-	< 0.00005	< 0.0001	< 0.0002	0.000110	0.000200	0.00110
	WQ13	Surface		2/13/2012	< 0.00005	3.50	0.106	-	< 0.00005	< 0.0001	< 0.0002	0.000110	< 0.00005	0.00160
	WQ13	Surface		3/12/2012	< 0.00005	3.30	0.105	-	< 0.00005	< 0.0001	< 0.0002	0.000130	< 0.00005	0.000700
	WQ13	Surface		4/16/2012	< 0.00005	3.20	0.0918	-	< 0.00005	< 0.0001	< 0.0002	0.000120	0.000170	< 0.0005
	WQ13	Surface		5/15/2012	< 0.00005	3.00	0.0877	-	< 0.00005	< 0.0001	0.000700	0.000100	0.000290	0.00110
	WQ13	Surface		5/22/2012	< 0.00005	2.90	0.0796	-	< 0.00005	< 0.0001	0.000900	0.0000700	0.000230	< 0.0005
	WQ13	Surface		5/28/2012	< 0.00005	3.20	0.0764	-	< 0.00005	< 0.0001	0.000700	0.0000900	0.000200	0.00120
	WQ13	Surface		6/4/2012	< 0.00005	2.90	0.0799	-	< 0.00005	< 0.0001	0.000400	0.0000900	< 0.00005	< 0.0005
	WQ13	Surface	Dup	6/11/2012	< 0.00005	3.30	0.0799	-	< 0.00005	< 0.0001	0.000400	0.0000800	0.000220	< 0.0005
	WQ13	Surface		6/11/2012	< 0.00005	2.90	0.0806	-	< 0.00005	< 0.0001	0.000400	0.0000800	0.000150	< 0.0005
	WQ13	Surface		6/18/2012	< 0.00005	2.90	0.0814	-	< 0.00005	< 0.0001	0.000300	0.0000900	0.000340	0.00220
	WQ13	Surface		7/16/2012	< 0.00005	3.30	0.0936	-	< 0.00005	< 0.0001	0.000300	0.0000800	0.000280	< 0.0005
	WQ13	Surface		8/13/2012	< 0.00005	3.60	0.105	-	< 0.00005	< 0.0001	0.000200	0.0000900	0.000340	0.00120
	WQ13	Surface		9/17/2012	< 0.00005	3.40	0.0996	-	< 0.00005	< 0.0001	0.000200	0.0000900	0.000240	< 0.0005
	WQ13	Surface		10/15/2012	< 0.00005	3.90	0.0998	-	< 0.00005	< 0.0001	0.000200	0.000110	0.000190	0.00270
	WQ13	Surface		11/12/2012	< 0.00005	3.40	0.0934	-	< 0.00005	< 0.0001	0.000200	0.000100	< 0.00005	0.00110
	WQ13	Surface		1/15/2013	< 0.00005	4.20	0.110	-	< 0.00005	< 0.0001	0.000400	0.000120	< 0.00005	0.0103
	WQ13	Surface		5/14/2013	< 0.00005	2.50	0.0761	-	< 0.00005	< 0.0001	0.000900	0.0000900	< 0.00005	0.00250
	WQ13	Surface		5/22/2013	< 0.00005	1.80	0.0357	-	< 0.00005	< 0.0001	0.00190	0.000120	< 0.00005	0.00150
	WQ13	Surface		5/28/2013	< 0.00005	3.10	0.0624	-	< 0.00005	< 0.0001	0.000800	0.0000900	< 0.00005	< 0.0005
	WQ13	Surface		6/4/2013	< 0.00005	3.00	0.0806	-	< 0.00005	< 0.0001	0.000600	0.0000900	< 0.00005	< 0.0005
	WQ13	Surface		6/10/2013	< 0.00005	3.00	0.0847	-	< 0.00005	< 0.0001	0.000900	0.0000900	< 0.00005	0.00200
	WQ13	Surface		6/18/2013	< 0.00005	< 0.5	0.0776	-	< 0.00005	< 0.0001	0.000700	0.0000800	< 0.00005	0.00130
L1913531-4	WQ13	Surface	Dup	4/12/2017	<0.000010	3.00	0.0874	-	<0.000010	<0.00010	<0.010	0.000112	<0.000050	<0.0030
L1913531-2	WQ13	Surface		4/12/2017	<0.000010	3.00	0.0885	-	<0.000010	<0.00010	<0.010	0.000104	<0.000050	<0.0030
L1926080-1	WQ13	Surface		5/11/2017	<0.000010	3.10	0.0814	-	<0.000010	<0.00010	<0.010	0.0000860	<0.000050	<0.0030
L1939712-11	WQ13	Surface		6/7/2017	<0.000010	3.10	0.0835	-	<0.000010	<0.00010	<0.010	0.0000970	<0.000050	<0.0030
L1964508-2	WQ13	Surface		7/24/2017	<0.000010	3.50	0.0962	-	<0.000010	<0.00010	<0.010	0.0000900	<0.000050	<0.0030
L1984944-8	WQ13	Surface		8/30/2017	<0.000010	3.60	0.103	1.10	<0.000010	<0.00010	<0.010	0.000105	<0.000050	<0.0030
L1988832-7	WQ13	Surface		9/9/2017	<0.000010	3.50	0.104	1.24	<0.000010	<0.00010	<0.010	0.000109	<0.000050	<0.0030

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LabID	Site	Depth	QAQC	Date	Total Metals									
					Silver (Ag)-Dissolved	Sodium (Na)-Dissolved	Strontium (Sr)-Dissolved	Sulfur (S)-Dissolved	Thallium (Tl)-Dissolved	Tin (Sn)-Dissolved	Titanium (Ti)-Dissolved	Uranium (U)-Dissolved	Vanadium (V)-Dissolved	Zinc (Zn)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
VA20C1281-002	WQ13	Surface	Dup	11/18/2020	<0.000010	3.06	0.0934	1.03	<0.000010	<0.00010	0.000350	0.0000800	<0.00050	<0.0010
VA20C1281-001	WQ13	Surface		11/18/2020	<0.000010	3.05	0.0908	0.880	<0.000010	<0.00010	0.000440	0.0000790	<0.00050	<0.0010
	WQ14	Surface		5/24/2011	< 0.00005	2.20	0.0530	-	< 0.00005	< 0.0001	0.00140	0.0000700	0.000100	0.00360
	WQ14	Surface		5/30/2011	< 0.00005	2.20	0.0561	-	< 0.00005	< 0.0001	0.000900	0.0000600	0.000110	0.00500
	WQ14	Surface		6/6/2011	< 0.00005	2.40	0.0708	-	< 0.00005	< 0.0001	0.000500	0.0000500	0.000160	0.00790
	WQ14	Surface		6/13/2011	< 0.00005	2.60	0.0807	-	< 0.00005	< 0.0001	0.000400	0.0000600	0.000150	0.00140
	WQ14	Surface	Dup	7/18/2011	< 0.00005	2.80	0.0933	-	< 0.00005	< 0.0001	0.000500	0.0000700	0.000220	< 0.0005
	WQ14	Surface		7/18/2011	< 0.00005	2.80	0.0931	-	< 0.00005	< 0.0001	0.000500	0.0000600	0.000220	0.00130
	WQ14	Surface		8/15/2011	< 0.00005	3.60	0.127	-	< 0.00005	< 0.0001	0.000300	0.000150	0.000140	0.000700
	WQ14	Surface		9/19/2011	< 0.00005	4.00	0.138	-	< 0.00005	< 0.0001	< 0.0002	0.000140	< 0.00005	0.000600
	WQ14	Surface		10/17/2011	< 0.00005	3.90	0.109	-	< 0.00005	< 0.0001	< 0.0002	0.000130	< 0.00005	< 0.0005
	WQ14	Surface	Dup	11/14/2011	< 0.00005	4.20	0.118	-	< 0.00005	< 0.0001	< 0.0002	0.000140	0.0000900	0.000600
	WQ14	Surface		11/14/2011	< 0.00005	4.10	0.118	-	< 0.00005	< 0.0001	< 0.0002	0.000140	0.000100	0.00140
	WQ14	Surface		12/13/2011	< 0.00005	4.50	0.139	-	< 0.00005	< 0.0001	0.000300	0.000220	< 0.00005	0.00510
	WQ14	Surface	Dup	1/12/2012	< 0.00005	3.40	0.106	-	< 0.00005	< 0.0001	0.000200	0.000100	0.000190	0.00260
	WQ14	Surface		1/12/2012	< 0.00005	4.30	0.145	-	< 0.00005	< 0.0001	< 0.0002	0.000280	0.0000700	0.00900
	WQ14	Surface		4/17/2012	< 0.00005	3.30	0.0971	-	< 0.00005	< 0.0001	< 0.0002	0.000210	0.0000800	< 0.0005
	WQ14	Surface		5/23/2012	< 0.00005	2.90	0.0680	-	< 0.00005	< 0.0001	0.000500	< 0.00005	0.000140	0.00150
	WQ14	Surface		5/28/2012	< 0.00005	2.70	0.0701	-	< 0.00005	< 0.0001	0.000600	< 0.00005	< 0.00005	0.00110
	WQ14	Surface	Dup	6/4/2012	< 0.00005	2.70	0.0752	-	< 0.00005	< 0.0001	0.000300	< 0.00005	< 0.00005	< 0.0005
	WQ14	Surface		6/4/2012	< 0.00005	2.80	0.0745	-	< 0.00005	< 0.0001	0.000400	< 0.00005	< 0.00005	< 0.0005
	WQ14	Surface		6/11/2012	< 0.00005	3.00	0.0864	-	< 0.00005	< 0.0001	0.000400	< 0.00005	0.0000800	0.000900
	WQ14	Surface		6/18/2012	< 0.00005	3.20	0.0927	-	< 0.00005	< 0.0001	0.000200	0.0000700	0.000260	0.00150
	WQ14	Surface		7/16/2012	< 0.00005	3.90	0.131	-	< 0.00005	< 0.0001	0.000300	0.0000900	0.000190	0.000500
	WQ14	Surface		8/13/2012	< 0.00005	4.30	0.149	-	< 0.00005	< 0.0001	0.000300	0.000140	0.000260	0.00130
	WQ14	Surface		9/17/2012	< 0.00005	4.40	0.135	-	< 0.00005	< 0.0001	< 0.0002	0.000130	0.0000700	< 0.0005
	WQ14	Surface		10/16/2012	< 0.00005	4.70	0.124	-	< 0.00005	< 0.0001	< 0.0002	0.000130	< 0.00005	0.00220
	WQ14	Surface		11/12/2012	< 0.00005	4.70	0.122	-	< 0.00005	< 0.0001	0.000200	0.000140	< 0.00005	0.00110
	WQ14	Surface		12/10/2012	< 0.00005	6.10	0.151	-	< 0.00005	< 0.0001	0.000200	0.000220	< 0.00005	0.0186
	WQ14	Surface		4/16/2013	< 0.00005	3.60	0.109	-	< 0.00005	< 0.0001	0.000600	0.000180	< 0.00005	0.00170
	WQ14	Surface	Dup	5/14/2013	< 0.00005	2.30	0.0671	-	< 0.00005	< 0.0001	0.000600	< 0.00005	< 0.00005	0.00280
	WQ14	Surface		5/14/2013	< 0.00005	2.30	0.0667	-	< 0.00005	< 0.0001	0.000700	< 0.00005	< 0.00005	< 0.0005
	WQ14	Surface		5/21/2013	< 0.00005	3.00	0.0781	-	< 0.00005	< 0.0001	0.000400	< 0.00005	< 0.00005	0.000600
	WQ14	Surface		5/28/2013	< 0.00005	3.40	0.0623	-	< 0.00005	< 0.0001	0.000600	< 0.00005	< 0.00005	< 0.0005
	WQ14	Surface		6/4/2013	< 0.00005	2.90	0.0776	-	< 0.00005	< 0.0001	0.000500	< 0.00005	< 0.00005	0.000800
	WQ14	Surface	Dup	6/11/2013	< 0.00005	3.20	0.0908	-	< 0.00005	< 0.0001	0.000300	0.0000500	< 0.00005	< 0.0005
	WQ14	Surface		6/11/2013	< 0.00005	3.20	0.0901	-	< 0.00005	< 0.0001	0.000400	0.0000500	< 0.00005	0.000500
	WQ14	Surface		6/18/2013	< 0.00005	6.60	0.894	-	< 0.00005	< 0.0001	0.00630	0.000330	< 0.00005	0.0112
	WQ15	Surface		9/24/2012	< 0.00005	1.80	0.0743	-	< 0.00005	< 0.0001	0.000700	0.000130	< 0.00005	0.00190
	WQ15	Surface		10/15/2012	< 0.00005	2.10	0.0712	-	< 0.00005	< 0.0001	0.000700	0.000120	< 0.00005	0.00410
	WQ15	Surface		11/13/2012	< 0.00005	1.90	0.0714	-	< 0.00005	< 0.0001	0.000200	0.000140	< 0.00005	0.00100
	WQ15	Surface		1/13/2013	< 0.00005	2.10	0.0818	-	< 0.00005	< 0.0001	0.000200	0.000170	< 0.00005	0.00350
	WQ15	Surface		2/12/2013	< 0.00005	2.00	0.0762	-	< 0.00005	< 0.0001	< 0.0002	0.000110	< 0.00005	0.00420
	WQ15	Surface		3/11/2013	< 0.00005	2.00	0.0780	-	< 0.00005	< 0.0001	< 0.0002	0.000150	< 0.00005	0.00210

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals									
					Silver (Ag)-Dissolved	Sodium (Na)-Dissolved	Strontium (Sr)-Dissolved	Sulfur (S)-Dissolved	Thallium (Tl)-Dissolved	Tin (Sn)-Dissolved	Titanium (Ti)-Dissolved	Uranium (U)-Dissolved	Vanadium (V)-Dissolved	Zinc (Zn)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ15	Surface		4/15/2013	< 0.00005	1.70	0.0737	-	< 0.00005	< 0.0001	< 0.0002	0.000120	< 0.00005	0.00210
	WQ15	Surface		5/13/2013	< 0.00005	1.30	0.0618	-	< 0.00005	< 0.0001	0.00150	0.000160	< 0.00005	0.00260
	WQ15	Surface		5/22/2013	< 0.00005	3.00	0.0835	-	< 0.00005	< 0.0001	0.000600	0.0000800	< 0.00005	0.00150
	WQ15	Surface		5/27/2013	< 0.00005	1.70	0.0447	-	< 0.00005	< 0.0001	0.00100	0.000140	< 0.00005	< 0.0005
	WQ15	Surface		6/6/2013	< 0.00005	1.40	0.0593	-	< 0.00005	< 0.0001	0.00100	0.000170	< 0.00005	0.000900
	WQ15	Surface		6/10/2013	< 0.00005	1.40	0.0618	-	< 0.00005	< 0.0001	0.000800	0.000180	< 0.00005	0.00140
	WQ15	Surface		6/17/2013	< 0.00005	< 0.5	0.0597	-	< 0.00005	< 0.0001	0.000800	0.000150	< 0.00005	0.00180
	WQ15	Surface		4/13/2014	< 0.00005	1.80	0.0743	-	< 0.00005	< 0.0001	0.000200	0.000130	< 0.00005	0.00240
	WQ15	Surface		7/2/2014	< 0.00005	1.60	0.0663	-	< 0.00005	< 0.0001	0.000400	0.000150	< 0.00005	0.00610
	WQ15	Surface		9/24/2014	< 0.00005	2.20	0.0878	-	< 0.00005	< 0.0001	0.000300	0.0000800	< 0.00005	0.00350
	WQ15	Surface		12/8/2014	< 0.00005	1.80	0.0768	-	< 0.00005	< 0.0001	< 0.0002	0.000110	< 0.00005	0.00200
	WQ16	Surface		9/24/2012	< 0.00005	2.00	0.0385	-	< 0.00005	< 0.0001	0.000500	0.000150	< 0.00005	0.00400
	WQ16	Surface		10/15/2012	< 0.00005	2.30	0.0359	-	< 0.00005	< 0.0001	0.000200	0.000150	< 0.00005	0.00280
	WQ16	Surface		11/13/2012	< 0.00005	2.00	0.0400	-	< 0.00005	< 0.0001	< 0.0002	0.000210	< 0.00005	0.00170
	WQ16	Surface		1/13/2013	< 0.00005	2.00	0.0424	-	< 0.00005	< 0.0001	< 0.0002	0.000230	< 0.00005	0.00220
	WQ16	Surface		2/12/2013	< 0.00005	2.30	0.0448	-	< 0.00005	< 0.0001	< 0.0002	0.000190	< 0.00005	0.00330
	WQ16	Surface		3/11/2013	< 0.00005	2.10	0.0438	-	< 0.00005	< 0.0001	< 0.0002	0.000250	< 0.00005	0.00590
	WQ16	Surface		4/15/2013	< 0.00005	1.90	0.0430	-	< 0.00005	< 0.0001	0.000500	0.000230	< 0.00005	0.00370
	WQ16	Surface		5/13/2013	< 0.00005	1.60	0.0386	-	< 0.00005	< 0.0001	0.000900	0.000220	< 0.00005	0.00290
	WQ16	Surface		5/22/2013	< 0.00005	1.50	0.0626	-	< 0.00005	< 0.0001	0.00110	0.000130	< 0.00005	0.00180
	WQ16	Surface		5/27/2013	< 0.00005	2.10	0.0186	-	< 0.00005	< 0.0001	0.000500	0.000220	< 0.00005	< 0.0005
	WQ16	Surface		6/6/2013	< 0.00005	1.70	0.0354	-	< 0.00005	< 0.0001	0.000400	0.000260	< 0.00005	0.00110
	WQ16	Surface		6/10/2013	< 0.00005	1.70	0.0371	-	< 0.00005	< 0.0001	0.000300	0.000310	< 0.00005	< 0.0005
	WQ16	Surface		6/17/2013	< 0.00005	< 0.5	0.0348	-	< 0.00005	< 0.0001	0.000300	0.000260	< 0.00005	0.00130
	WQ16	Surface		4/13/2014	< 0.00005	1.80	0.0392	-	< 0.00005	< 0.0001	< 0.0002	0.000240	< 0.00005	0.00350
	WQ16	Surface		7/2/2014	< 0.00005	1.80	0.0393	-	< 0.00005	< 0.0001	0.000200	0.000260	< 0.00005	0.00180
	WQ16	Surface		9/24/2014	< 0.00005	2.30	0.0382	-	< 0.00005	< 0.0001	0.000900	0.000130	< 0.00005	0.00260
	WQ16	Surface		12/8/2014	< 0.00005	1.90	0.0425	-	< 0.00005	< 0.0001	< 0.0002	0.000220	< 0.00005	0.00150
	WQ17	Surface		12/12/2011	< 0.00005	2.90	0.0521	-	< 0.00005	< 0.0001	0.000200	0.0000700	0.000100	< 0.0005
	WQ17	Surface		3/12/2012	< 0.00005	3.20	0.0583	-	< 0.00005	< 0.0001	0.000200	0.0000900	< 0.00005	0.00160
	WQ17	Surface	Dup	6/18/2012	< 0.00005	1.90	0.0229	-	< 0.00005	< 0.0001	0.00100	0.000100	0.000210	0.00370
	WQ17	Surface		6/18/2012	< 0.00005	1.60	0.0211	-	< 0.00005	< 0.0001	0.000900	0.000190	0.000310	0.00190
	WQ17	Surface	Dup	9/17/2012	< 0.00005	3.00	0.0524	-	< 0.00005	< 0.0001	0.000300	0.0000600	0.000180	0.00100
	WQ17	Surface		9/17/2012	< 0.00005	3.00	0.0510	-	< 0.00005	< 0.0001	0.000300	0.0000700	0.000180	0.00260
	WQ17	Surface		1/13/2013	< 0.00005	3.80	0.0629	-	< 0.00005	< 0.0001	0.000200	0.0000900	< 0.00005	0.00240
	WQ18	Surface		12/12/2011	< 0.00005	5.30	0.0613	-	< 0.00005	< 0.0001	0.000300	0.000100	0.00107	0.00130
	WQ18	Surface		3/12/2012	< 0.00005	6.20	0.0623	-	< 0.00005	< 0.0001	0.000300	0.000130	0.00100	0.00410
	WQ18	Surface		6/19/2012	< 0.00005	4.20	0.0469	-	< 0.00005	< 0.0001	0.00210	0.0000600	0.00119	0.00200
	WQ18	Surface		9/18/2012	< 0.00005	5.20	0.0599	-	< 0.00005	< 0.0001	0.000400	0.000110	0.00146	0.000600
	WQ18	Surface		1/16/2013	< 0.00005	7.70	0.0640	-	< 0.00005	< 0.0001	0.000900	0.000130	0.00103	0.119
	WQ19	Surface		6/18/2012	< 0.00005	2.70	0.116	-	< 0.00005	< 0.0001	< 0.0002	0.000260	0.000780	0.00240
	WQ19	Surface		9/17/2012	< 0.00005	2.80	0.124	-	< 0.00005	< 0.0001	< 0.0002	0.000350	0.000840	0.000600
	WQ19	Surface		12/10/2012	< 0.00005	3.00	0.118	-	< 0.00005	< 0.0001	< 0.0002	0.000250	0.000310	0.00210
	WQ26	Surface		1/13/2013	< 0.00005	4.00	0.106	-	< 0.00005	< 0.0001	< 0.0002	0.000270	< 0.00005	0.00210

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LabID	Site	Depth	QAQC	Date	Total Metals									
					Silver (Ag)-Dissolved	Sodium (Na)-Dissolved	Strontium (Sr)-Dissolved	Sulfur (S)-Dissolved	Thallium (Tl)-Dissolved	Tin (Sn)-Dissolved	Titanium (Ti)-Dissolved	Uranium (U)-Dissolved	Vanadium (V)-Dissolved	Zinc (Zn)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ26	Surface		2/12/2013	< 0.00005	4.00	0.102	-	< 0.00005	< 0.0001	< 0.0002	0.000210	< 0.00005	0.00400
	WQ26	Surface		3/11/2013	< 0.00005	4.10	0.107	-	< 0.00005	< 0.0001	< 0.0002	0.000270	< 0.00005	0.00290
	WQ26	Surface		4/15/2013	< 0.00005	3.00	0.0857	-	< 0.00005	< 0.0001	0.000500	0.000150	< 0.00005	0.00120
	WQ26	Surface		5/13/2013	< 0.00005	1.50	0.0303	-	< 0.00005	< 0.0001	0.00350	0.000160	< 0.00005	0.00280
	WQ26	Surface		5/22/2013	< 0.00005	1.70	0.0382	-	< 0.00005	< 0.0001	0.000300	0.000200	< 0.00005	0.00150
	WQ26	Surface		5/27/2013	< 0.00005	1.90	0.0131	-	< 0.00005	< 0.0001	0.00230	0.000150	< 0.00005	0.000600
	WQ26	Surface		6/6/2013	< 0.00005	1.80	0.0354	-	< 0.00005	< 0.0001	0.00200	0.000160	< 0.00005	0.00100
	WQ26	Surface		6/10/2013	< 0.00005	1.90	0.0408	-	< 0.00005	< 0.0001	0.00110	0.000150	< 0.00005	0.00130
	WQ26	Surface		6/17/2013	< 0.00005	< 0.5	0.0402	-	< 0.00005	< 0.0001	0.00150	0.000130	< 0.00005	0.00240
L1762266-6	WQ26	Surface	Dup	4/27/2016	<0.00010	<2.0	0.0351	-	<0.00010	<0.00010	<0.010	0.000148	<0.00050	<0.0030
L1762266-3	WQ26	Surface		4/27/2016	<0.00010	<2.0	0.0350	-	<0.00010	<0.00010	<0.010	0.000157	<0.00050	<0.0030
L1764648-3	WQ26	Surface	Dup	5/3/2016	<0.00010	<2.0	0.0321	-	<0.00010	<0.00010	<0.010	0.000181	<0.00050	<0.0030
L1764648-2	WQ26	Surface		5/3/2016	0.0000110	<2.0	0.0356	-	<0.00010	<0.00010	<0.010	0.000176	<0.00050	<0.0030
L1767107-3	WQ26	Surface		5/9/2016	<0.00010	2.00	0.0382	-	<0.00010	<0.00010	<0.010	0.000147	<0.00050	<0.0030
L1770672-3	WQ26	Surface		5/16/2016	<0.00010	2.20	0.0425	-	<0.00010	<0.00010	<0.010	0.000125	<0.00050	<0.0030
L1774541-2	WQ26	Surface		5/25/2016	<0.00010	2.30	0.0490	-	<0.00010	<0.00010	<0.010	0.000126	<0.00050	<0.0030
L1788643-2	WQ26	Surface		6/22/2016	<0.00010	2.20	0.0432	-	<0.00010	<0.00010	<0.010	0.000154	<0.00050	<0.0030
L1808945-2	WQ26	Surface	Dup	8/3/2016	<0.00010	2.60	0.0612	-	<0.00010	<0.00010	<0.010	0.000114	0.000500	<0.0030
L1808945-6	WQ26	Surface		8/3/2016	<0.00010	2.60	0.0661	-	<0.00010	<0.00010	<0.010	0.000121	<0.00050	<0.0030
L1812856-2	WQ26	Surface		8/10/2016	<0.00010	2.80	0.0694	-	<0.00010	<0.00010	<0.010	0.000120	0.000510	<0.0030
L1815654-2	WQ26	Surface		8/16/2016	<0.00010	3.20	0.0775	-	<0.00010	<0.00010	<0.010	0.000119	<0.00050	<0.0030
L1819041-4	WQ26	Surface	Dup	8/23/2016	<0.00010	3.00	0.0719	-	<0.00010	<0.00010	<0.010	0.000110	<0.00050	<0.0030
L1819041-8	WQ26	Surface		8/23/2016	<0.00010	2.90	0.0721	-	<0.00010	<0.00010	<0.010	0.000108	<0.00050	<0.0030
L1823224-5	WQ26	Surface		8/31/2016	<0.00010	3.10	0.0758	-	<0.00010	<0.00010	<0.010	0.000111	<0.00050	<0.0030
L1826303-5	WQ26	Surface		9/7/2016	<0.00010	2.70	0.0673	-	<0.00010	<0.00010	<0.010	0.000115	<0.00050	<0.0030
L1913531-5	WQ26	Surface		4/12/2017	<0.00010	3.50	0.0977	-	<0.00010	<0.00010	<0.010	0.000218	<0.00050	<0.0030
L1926080-2	WQ26	Surface		5/11/2017	<0.00010	<2.0	0.0386	-	<0.00010	<0.00010	<0.010	0.000114	<0.00050	<0.0030
L1928943-5	WQ26	Surface	Dup	5/17/2017	<0.00010	<2.0	0.0362	-	<0.00010	<0.00010	<0.010	0.000121	<0.00050	<0.0030
L1928943-1	WQ26	Surface		5/17/2017	<0.00010	<2.0	0.0369	-	<0.00010	<0.00010	<0.010	0.000123	<0.00050	<0.0030
L1932034-3	WQ26	Surface		5/24/2017	<0.00010	<2.0	0.0303	-	<0.00010	<0.00010	<0.010	0.000168	<0.00050	<0.0030
L1935151-5	WQ26	Surface	Dup	5/30/2017	<0.00010	<2.0	0.0270	-	<0.00010	<0.00010	<0.010	0.000171	<0.00050	<0.0030
L1935151-1	WQ26	Surface		5/30/2017	<0.00010	<2.0	0.0271	-	<0.00010	<0.00010	<0.010	0.000170	<0.00050	<0.0030
L1939712-4	WQ26	Surface	Dup	6/7/2017	<0.00010	<2.0	0.0365	-	<0.00010	<0.00010	<0.010	0.000157	<0.00050	<0.0030
L1939712-3	WQ26	Surface		6/7/2017	<0.00010	<2.0	0.0366	-	<0.00010	<0.00010	<0.010	0.000156	<0.00050	<0.0030
L1964508-1	WQ26	Surface		7/24/2017	<0.00010	3.30	0.0791	-	<0.00010	<0.00010	<0.010	0.000126	<0.00050	<0.0030
L1984944-4	WQ26	Surface		8/30/2017	<0.00010	3.50	0.105	0.750	<0.00010	<0.00010	<0.010	0.000192	<0.00050	<0.0030
L1988190-3	WQ26	Surface		9/6/2017	<0.00010	3.80	0.0977	0.780	<0.00010	<0.00010	<0.010	0.000170	<0.00050	<0.0030
L1991279-3	WQ26	Surface		9/13/2017	<0.00010	3.60	0.0957	0.760	<0.00010	<0.00010	<0.010	0.000176	<0.00050	<0.0030
L1995655-1	WQ26	Surface		9/21/2017	<0.00010	3.30	0.0877	0.710	<0.00010	<0.00010	<0.010	0.000148	<0.00050	<0.0030
L1999769-1	WQ26	Surface		9/28/2017	<0.00010	3.50	0.0879	0.700	<0.00010	<0.00010	<0.010	0.000138	<0.00050	<0.0030
L2009845-5	WQ26	Surface		10/17/2017	<0.00010	2.70	0.0545	0.700	<0.00010	<0.00010	<0.010	0.0000940	<0.00050	<0.0030
L2020333-5	WQ26	Surface		11/7/2017	<0.00010	2.60	0.0592	0.700	<0.00010	<0.00010	<0.010	0.000117	<0.00050	<0.0030
L2035356-3	WQ26	Surface		12/12/2017	<0.00010	3.00	0.0712	<0.50	<0.00010	<0.00010	<0.010	0.000126	<0.00050	<0.0030
L2049678-3	WQ26	Surface		1/24/2018	<0.00010	3.30	0.0900	<0.50	<0.00010	<0.00010	<0.010	0.000175	<0.00050	<0.0030

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals									
					Silver (Ag)-Dissolved	Sodium (Na)-Dissolved	Strontium (Sr)-Dissolved	Sulfur (S)-Dissolved	Thallium (Tl)-Dissolved	Tin (Sn)-Dissolved	Titanium (Ti)-Dissolved	Uranium (U)-Dissolved	Vanadium (V)-Dissolved	Zinc (Zn)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2057605-1	WQ26	Surface		2/14/2018	<0.000010	3.30	0.0863	<0.50	<0.000010	<0.00010	<0.010	0.000181	<0.00050	0.00440
L2074294-4	WQ26	Surface		3/28/2018	<0.000010	3.00	0.0889	0.990	<0.000010	<0.00010	<0.010	0.000206	<0.00050	<0.0030
L2081503-5	WQ26	Surface		4/17/2018	<0.000010	3.60	0.0966	0.900	<0.000010	<0.00010	<0.010	0.000210	<0.00050	<0.0030
L2097084-5	WQ26	Surface		5/16/2018	<0.000010	<2.0	0.0232	<0.50	<0.000010	<0.00010	<0.010	0.000157	<0.00050	<0.0030
L2103632-4	WQ26	Surface		5/29/2018	<0.000010	<2.0	0.0370	<0.50	<0.000010	<0.00010	<0.010	0.000149	<0.00050	<0.0030
L2132986-5	WQ26	Surface		7/18/2018	<0.000010	3.00	0.0737	<0.50	<0.000010	<0.00010	<0.010	0.000116	<0.00050	0.00160
L2143640-4	WQ26	Surface	Dup	8/7/2018	<0.000010	3.10	0.0786	<0.50	<0.000010	<0.00010	<0.010	0.000122	<0.00050	<0.0010
L2143640-3	WQ26	Surface		8/7/2018	<0.000010	3.10	0.0778	<0.50	<0.000010	<0.00010	<0.010	0.000128	0.000510	<0.0010
L2156026-1	WQ26	Surface		8/28/2018	<0.000010	3.70	0.0935	0.800	<0.000010	<0.00010	<0.010	0.000166	<0.00050	0.00250
L2159605-1	WQ26	Surface		9/4/2018	<0.000010	3.70	0.0918	1.14	<0.000010	<0.00010	<0.010	0.000171	<0.00050	0.00190
L2160840-4	WQ26	Surface	Dup	9/7/2018	<0.000010	3.70	0.0940	0.510	<0.000010	<0.00010	<0.010	0.000187	<0.00050	<0.0010
L2160840-1	WQ26	Surface		9/7/2018	<0.000010	3.70	0.0948	0.800	<0.000010	<0.00010	<0.010	0.000192	<0.00050	<0.0010
L2163669-3	WQ26	Surface		9/11/2018	<0.000010	3.80	0.0986	0.930	<0.000010	<0.00010	<0.010	0.000173	<0.00050	<0.0010
L2188218-4	WQ26	Surface		10/26/2018	<0.000010	2.80	0.0709	<0.50	<0.000010	<0.00010	<0.010	0.000118	<0.00050	<0.0010
L2203408-1	WQ26	Surface		11/27/2018	<0.000010	2.60	0.0530	0.540	<0.000010	<0.00010	<0.010	0.000111	<0.00050	<0.0010
L2213246-2	WQ26	Surface		12/18/2018	<0.000010	2.90	0.0763	<0.50	<0.000010	<0.00010	<0.010	0.000123	<0.00050	<0.0010
L2227701-2	WQ26	Surface		1/30/2019	<0.000010	3.30	0.0767	0.600	<0.000010	<0.00010	<0.010	0.000148	<0.00050	<0.0010
L2232050-1	WQ26	Surface		2/11/2019	<0.000010	3.50	0.0896	0.950	<0.000010	<0.00010	<0.010	0.000185	<0.00050	<0.0010
L2244756-5	WQ26	Surface	Dup	3/13/2019	<0.000010	3.40	0.103	0.820	<0.000010	<0.00010	<0.010	0.000259	<0.00050	0.00130
L2244756-2	WQ26	Surface		3/13/2019	<0.000010	3.50	0.102	0.910	<0.000010	<0.00010	<0.010	0.000253	<0.00050	<0.0010
L2256053-2	WQ26	Surface		4/8/2019	<0.000010	2.70	0.0700	0.690	<0.000010	<0.00010	<0.010	0.000162	<0.00050	<0.0010
L2269368-2	WQ26	Surface		5/4/2019	<0.000010	2.30	0.0403	<0.50	<0.000010	<0.00010	<0.010	0.000125	<0.00050	<0.0010
L2273497-4	WQ26	Surface		5/13/2019	<0.000010	<2.0	0.0339	<0.50	<0.000010	<0.00010	<0.010	0.000157	<0.00050	<0.0010
L2277964-7	WQ26	Surface		5/21/2019	<0.000010	<2.0	0.0322	<0.50	<0.000010	<0.00010	<0.010	0.000178	0.000510	<0.0010
L2282975-2	WQ26	Surface		5/29/2019	<0.000010	2.00	0.0392	<0.50	<0.000010	<0.00010	<0.010	0.000162	<0.00050	<0.0010
L2285579-2	WQ26	Surface		6/3/2019	<0.000010	2.20	0.0483	<0.50	<0.000010	<0.00010	<0.010	0.000137	<0.00050	<0.0010
L2312637-3	WQ26	Surface		7/16/2019	<0.000010	2.20	0.0481	<0.50	<0.000010	<0.00010	<0.010	0.000125	<0.00050	<0.0010
L2326388-3	WQ26	Surface		8/8/2019	<0.000010	2.50	0.0534	<0.50	<0.000010	<0.00010	<0.010	0.000126	<0.00050	<0.0010
L2349445-7	WQ26	Surface	Dup	9/16/2019	<0.000010	2.80	0.0691	0.710	<0.000010	<0.00010	<0.010	0.000111	<0.00050	<0.0010
L2349445-5	WQ26	Surface		9/16/2019	<0.000010	2.90	0.0681	0.720	<0.000010	<0.00010	<0.010	0.000114	<0.00050	<0.0010
L2371052-6	WQ26	Surface	Dup	10/22/2019	<0.000010	2.40	0.0513	<0.50	<0.000010	<0.00010	<0.010	0.000108	<0.00050	<0.0010
L2371052-4	WQ26	Surface		10/22/2019	<0.000010	2.30	0.0492	<0.50	<0.000010	<0.00010	<0.010	0.000106	<0.00050	0.00170
L2383392-2	WQ26	Surface		11/14/2019	<0.000010	2.30	0.0475	<0.50	<0.000010	<0.00010	<0.010	0.000125	<0.00050	<0.0010
VA19A0726-001	WQ26	Surface		12/16/2019	<0.000010	2.60	0.0532	<0.50	<0.000010	<0.00010	0.000580	0.000119	<0.00050	<0.0010
VA20A0688-002	WQ26	Surface		1/21/2020	<0.000010	3.08	0.0711	<0.50	<0.000010	<0.00010	<0.00030	0.000124	<0.00050	<0.0010
VA20A1887-002	WQ26	Surface		2/13/2020	<0.000010	2.76	0.0814	0.670	<0.000010	<0.00010	<0.00030	0.000159	<0.00050	<0.0010
VA20A3516-002	WQ26	Surface		3/16/2020	<0.000010	3.46	0.0880	0.840	<0.000010	<0.00010	<0.00030	0.000184	<0.00050	<0.0010
VA20A4555-001	WQ26	Surface		4/7/2020	<0.000010	3.21	0.0973	0.740	<0.000010	<0.00010	<0.00030	0.000195	<0.00050	<0.0010
VA20A6574-003	WQ26	Surface		5/14/2020	<0.000010	1.66	0.0324	<0.50	<0.000010	<0.00010	0.00177	0.000127	<0.00050	<0.0010
VA20B2156-002	WQ26	Surface		8/5/2020	<0.000010	2.90	0.0762	0.530	<0.000010	<0.00010	<0.00030	0.000117	<0.00050	<0.0010
VA20C1166-003	WQ26	Surface		11/17/2020	<0.000010	2.21	0.0485	<0.50	<0.000010	<0.00010	0.00105	0.000118	<0.00050	<0.0010
	WQ27	Surface		4/13/2014	<0.00005	3.00	0.0828	-	<0.00005	<0.0001	0.000200	0.000260	<0.00005	0.00300
	WQ27	Surface		7/2/2014	<0.00005	2.40	0.0517	-	<0.00005	<0.0001	0.000600	0.000120	0.000800	0.00150
	WQ27	Surface		9/24/2014	<0.00005	3.80	0.113	-	<0.00005	<0.0001	<0.0002	0.000300	0.000100	0.00240

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LabID	Site	Depth	QAQC	Date	Total Metals									
					Silver (Ag)-Dissolved	Sodium (Na)-Dissolved	Strontium (Sr)-Dissolved	Sulfur (S)-Dissolved	Thallium (Tl)-Dissolved	Tin (Sn)-Dissolved	Titanium (Ti)-Dissolved	Uranium (U)-Dissolved	Vanadium (V)-Dissolved	Zinc (Zn)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ27	Surface		12/9/2014	<0.00005	3.40	0.0900	-	<0.00005	<0.0001	<0.0002	0.000230	0.0000900	0.00250
L1762266-4	WQ27	Surface		4/27/2016	<0.000010	<2.0	0.0292	-	<0.000010	<0.00010	<0.010	0.000147	<0.00050	<0.0030
L1764648-6	WQ27	Surface		5/3/2016	<0.000010	<2.0	0.0291	-	<0.000010	<0.00010	<0.010	0.000161	<0.00050	<0.0030
L1767107-4	WQ27	Surface		5/9/2016	<0.000010	<2.0	0.0323	-	<0.000010	<0.00010	<0.010	0.000158	<0.00050	0.00460
L1770672-4	WQ27	Surface		5/16/2016	<0.000010	<2.0	0.0372	-	<0.000010	<0.00010	<0.010	0.000143	<0.00050	<0.0030
L1774541-3	WQ27	Surface		5/25/2016	<0.000010	2.10	0.0426	-	<0.000010	<0.00010	<0.010	0.000152	<0.00050	<0.0030
L1788643-6	WQ27	Surface	Dup	6/22/2016	<0.000010	2.00	0.0377	-	<0.000010	<0.00010	<0.010	0.000165	<0.00050	<0.0030
L1788643-3	WQ27	Surface		6/22/2016	<0.000010	2.00	0.0373	-	<0.000010	<0.00010	<0.010	0.000163	<0.00050	<0.0030
L1808945-3	WQ27	Surface		8/3/2016	<0.000010	2.40	0.0539	-	<0.000010	<0.00010	<0.010	0.000130	<0.00050	<0.0030
L1812856-3	WQ27	Surface		8/10/2016	<0.000010	2.50	0.0615	-	<0.000010	<0.00010	<0.010	0.000130	<0.00050	<0.0030
L1815654-3	WQ27	Surface		8/16/2016	<0.000010	2.90	0.0693	-	<0.000010	<0.00010	<0.010	0.000129	<0.00050	<0.0030
L1819041-10	WQ27	Surface		8/23/2016	<0.000010	2.60	0.0631	-	<0.000010	<0.00010	<0.010	0.000121	<0.00050	<0.0030
L1823224-6	WQ27	Surface		8/31/2016	<0.000010	2.80	0.0657	-	<0.000010	<0.00010	<0.010	0.000129	<0.00050	<0.0030
L1826303-2	WQ27	Surface		9/7/2016	<0.000010	2.40	0.0558	-	<0.000010	<0.00010	<0.010	0.000126	<0.00050	<0.0030
L1913006-2	WQ27	Surface		4/11/2017	<0.000010	3.40	0.0912	-	<0.000010	<0.00010	<0.010	0.000252	<0.00050	<0.0030
L1925486-3	WQ27	Surface		5/10/2017	<0.000010	<2.0	0.0368	-	<0.000010	<0.00010	<0.010	0.000135	<0.00050	<0.0030
L1928943-2	WQ27	Surface		5/17/2017	<0.000010	<2.0	0.0313	-	<0.000010	<0.00010	<0.010	0.000123	<0.00050	<0.0030
L1932034-2	WQ27	Surface		5/24/2017	<0.000010	<2.0	0.0293	-	<0.000010	<0.00010	<0.010	0.000157	<0.00050	<0.0030
L1935151-2	WQ27	Surface		5/30/2017	<0.000010	<2.0	0.0243	-	<0.000010	<0.00010	<0.010	0.000173	<0.00050	<0.0030
L1939712-2	WQ27	Surface		6/7/2017	<0.000010	<2.0	0.0306	-	<0.000010	<0.00010	<0.010	0.000165	<0.00050	<0.0030
L1961670-3	WQ27	Surface		7/18/2017	<0.000010	2.90	0.0645	-	<0.000010	<0.00010	<0.010	0.000125	<0.00050	<0.0030
L1984944-3	WQ27	Surface		8/30/2017	<0.000010	3.40	0.104	0.840	<0.000010	<0.00010	<0.010	0.000242	<0.00050	<0.0030
L1988832-2	WQ27	Surface		9/8/2017	<0.000010	3.50	0.0972	0.890	<0.000010	<0.00010	<0.010	0.000210	<0.00050	<0.0030
L1991279-2	WQ27	Surface	Dup	9/13/2017	<0.000010	3.30	0.0894	0.940	<0.000010	<0.00010	<0.010	0.000204	<0.00050	<0.0030
L1991279-6	WQ27	Surface		9/13/2017	<0.000010	3.30	0.0898	0.830	<0.000010	<0.00010	<0.010	0.000197	<0.00050	<0.0030
L1995655-2	WQ27	Surface		9/21/2017	<0.000010	3.00	0.0723	0.890	<0.000010	<0.00010	<0.010	0.000121	<0.00050	<0.0030
L1999769-2	WQ27	Surface		9/28/2017	<0.000010	3.20	0.0799	0.830	<0.000010	<0.00010	<0.010	0.000153	<0.00050	<0.0030
L2011329-3	WQ27	Surface		10/19/2017	<0.000010	2.50	0.0506	0.780	<0.000010	<0.00010	<0.010	0.000146	<0.00050	<0.0030
L2020946-2	WQ27	Surface		11/8/2017	<0.000010	2.10	0.0603	0.550	<0.000010	<0.00010	<0.010	0.000133	<0.00050	<0.0030
L2035356-2	WQ27	Surface		12/12/2017	<0.000010	2.70	0.0600	0.510	<0.000010	<0.00010	<0.010	0.000134	<0.00050	<0.0030
L2049678-4	WQ27	Surface		1/24/2018	<0.000010	3.00	0.0809	0.550	<0.000010	<0.00010	<0.010	0.000187	<0.00050	<0.0030
L2057605-2	WQ27	Surface		2/14/2018	<0.000010	3.10	0.0784	<0.50	<0.000010	<0.00010	<0.010	0.000197	<0.00050	<0.0030
L2074294-5	WQ27	Surface		3/28/2018	<0.000010	2.80	0.0816	0.950	<0.000010	<0.00010	<0.010	0.000226	<0.00050	<0.0030
L2081503-6	WQ27	Surface		4/17/2018	<0.000010	3.10	0.0845	0.720	<0.000010	<0.00010	<0.010	0.000223	<0.00050	<0.0030
L2093061-1	WQ27	Surface		5/9/2018	<0.000010	<2.0	0.0236	<0.50	<0.000010	<0.00010	<0.010	0.000165	0.000520	<0.0030
L2097084-6	WQ27	Surface		5/16/2018	<0.000010	<2.0	0.0212	<0.50	<0.000010	<0.00010	<0.010	0.000147	<0.00050	<0.0030
L2100419-3	WQ27	Surface	Dup	5/23/2018	<0.000010	<2.0	0.0228	<0.50	<0.000010	<0.00010	<0.010	0.000163	<0.00050	<0.0030
L2100419-1	WQ27	Surface		5/23/2018	<0.000010	<2.0	0.0238	<0.50	<0.000010	<0.00010	<0.010	0.000165	<0.00050	<0.0030
L2103632-5	WQ27	Surface		5/29/2018	<0.000010	<2.0	0.0305	<0.50	<0.000010	<0.00010	<0.010	0.000152	<0.00050	<0.0030
L2106738-3	WQ27	Surface	Dup	6/4/2018	<0.000010	<2.0	0.0316	<0.50	<0.000010	<0.00010	<0.010	0.000160	<0.00050	<0.0030
L2106738-1	WQ27	Surface		6/4/2018	<0.000010	<2.0	0.0317	<0.50	<0.000010	<0.00010	<0.010	0.000159	<0.00050	<0.0030
L2132986-4	WQ27	Surface		7/18/2018	<0.000010	2.90	0.0650	<0.50	<0.000010	<0.00010	<0.010	0.000122	<0.00050	<0.0010
L2143640-8	WQ27	Surface		8/7/2018	<0.000010	2.90	0.0711	<0.50	<0.000010	<0.00010	<0.010	0.000138	<0.00050	<0.0010
L2156026-4	WQ27	Surface	Dup	8/28/2018	<0.000010	3.40	0.0897	0.750	<0.000010	<0.00010	<0.010	0.000191	<0.00050	0.00110

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LabID	Site	Depth	QAQC	Date	Total Metals									
					Silver (Ag)-Dissolved	Sodium (Na)-Dissolved	Strontium (Sr)-Dissolved	Sulfur (S)-Dissolved	Thallium (Tl)-Dissolved	Tin (Sn)-Dissolved	Titanium (Ti)-Dissolved	Uranium (U)-Dissolved	Vanadium (V)-Dissolved	Zinc (Zn)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2156026-2	WQ27	Surface		8/28/2018	<0.000010	3.40	0.0869	0.620	<0.000010	<0.00010	<0.010	0.000190	<0.00050	0.00260
L2159605-2	WQ27	Surface		9/4/2018	<0.000010	3.40	0.0863	1.11	<0.000010	<0.00010	<0.010	0.000197	<0.00050	<0.0010
L2160840-2	WQ27	Surface		9/7/2018	<0.000010	3.40	0.0910	0.520	<0.000010	<0.00010	<0.010	0.000230	<0.00050	<0.0010
L2163669-4	WQ27	Surface		9/11/2018	<0.000010	3.30	0.0919	1.03	<0.000010	<0.00010	<0.010	0.000183	<0.00050	<0.0010
L2188218-3	WQ27	Surface		10/26/2018	<0.000010	2.50	0.0620	<0.50	<0.000010	<0.00010	<0.010	0.000139	<0.00050	0.00120
L2204508-6	WQ27	Surface	Dup	11/29/2018	<0.000010	2.20	0.0544	<0.50	<0.000010	<0.00010	<0.010	0.000120	<0.00050	<0.0010
L2204508-4	WQ27	Surface		11/29/2018	<0.000010	2.10	0.0545	<0.50	<0.000010	<0.00010	<0.010	0.000121	<0.00050	<0.0010
L2213246-3	WQ27	Surface		12/18/2018	<0.000010	2.70	0.0641	<0.50	<0.000010	<0.00010	<0.010	0.000142	<0.00050	<0.0010
L2227701-3	WQ27	Surface		1/30/2019	<0.000010	3.00	0.0672	0.770	<0.000010	<0.00010	<0.010	0.000150	<0.00050	<0.0010
L2232050-2	WQ27	Surface		2/11/2019	<0.000010	3.20	0.0813	0.990	<0.000010	<0.00010	<0.010	0.000207	<0.00050	<0.0010
L2244756-3	WQ27	Surface		3/13/2019	<0.000010	3.40	0.0940	0.930	<0.000010	<0.00010	<0.010	0.000298	<0.00050	<0.0010
L2256053-3	WQ27	Surface		4/8/2019	<0.000010	2.90	0.0667	0.750	<0.000010	<0.00010	<0.010	0.000158	<0.00050	<0.0010
L2269368-3	WQ27	Surface		5/4/2019	<0.000010	2.00	0.0340	<0.50	<0.000010	<0.00010	<0.010	0.000134	<0.00050	<0.0010
L2274397-1	WQ27	Surface		5/14/2019	<0.000010	<2.0	0.0312	<0.50	<0.000010	<0.00010	<0.010	0.000160	<0.00050	<0.0010
L2277964-6	WQ27	Surface		5/21/2019	<0.000010	<2.0	0.0271	<0.50	<0.000010	<0.00010	<0.010	0.000171	<0.00050	0.00120
L2282975-3	WQ27	Surface		5/29/2019	<0.000010	<2.0	0.0324	<0.50	<0.000010	<0.00010	<0.010	0.000173	<0.00050	<0.0010
L2285579-3	WQ27	Surface		6/3/2019	<0.000010	2.10	0.0362	<0.50	<0.000010	<0.00010	<0.010	0.000153	<0.00050	<0.0010
L2312637-4	WQ27	Surface		7/16/2019	<0.000010	<2.0	0.0404	<0.50	<0.000010	<0.00010	<0.010	0.000134	<0.00050	<0.0010
L2326388-2	WQ27	Surface		8/8/2019	<0.000010	2.20	0.0471	<0.50	<0.000010	<0.00010	<0.010	0.000139	<0.00050	<0.0010
L2350223-2	WQ27	Surface		9/17/2019	<0.000010	2.50	0.0552	<0.50	<0.000010	<0.00010	<0.010	0.000137	<0.00050	<0.0010
L2372667-2	WQ27	Surface		10/23/2019	<0.000010	2.20	0.0428	<0.50	<0.000010	<0.00010	<0.010	0.000117	<0.00050	<0.0010
L2383392-3	WQ27	Surface		11/14/2019	<0.000010	2.10	0.0396	<0.50	<0.000010	<0.00010	<0.010	0.000130	<0.00050	<0.0010
VA19A0726-002	WQ27	Surface		12/16/2019	<0.000010	2.33	0.0469	<0.50	<0.000010	<0.00010	0.000750	0.000130	<0.00050	<0.0010
VA20A0812-002	WQ27	Surface		1/23/2020	<0.000010	2.77	0.0652	0.670	<0.000010	<0.00010	0.000460	0.000143	<0.00050	0.00190
VA20A1887-005	WQ27	Surface		2/13/2020	<0.000010	2.71	0.0740	0.720	<0.000010	<0.00010	0.000320	0.000169	<0.00050	0.00110
VA20A3516-003	WQ27	Surface		3/16/2020	<0.000010	3.13	0.0806	0.790	<0.000010	<0.00010	<0.00030	0.000204	<0.00050	<0.0010
VA20A4369-002	WQ27	Surface		4/1/2020	<0.000010	3.10	0.0858	0.810	<0.000010	<0.00010	<0.00030	0.000217	<0.00050	<0.0010
L1913006-4	WQ28	Surface		4/11/2017	<0.000010	3.40	0.0905	-	<0.000010	<0.00010	<0.010	0.000254	<0.00050	<0.0030
L1925486-2	WQ28	Surface		5/10/2017	<0.000010	<2.0	0.0359	-	<0.000010	<0.00010	<0.010	0.000128	<0.00050	<0.0030
L1928943-3	WQ28	Surface		5/17/2017	<0.000010	<2.0	0.0352	-	<0.000010	<0.00010	<0.010	0.000123	<0.00050	<0.0030
L1932034-4	WQ28	Surface	Dup	5/24/2017	<0.000010	<2.0	0.0290	-	<0.000010	<0.00010	<0.010	0.000168	<0.00050	<0.0030
L1932034-1	WQ28	Surface		5/24/2017	<0.000010	<2.0	0.0271	-	<0.000010	<0.00010	<0.010	0.000165	<0.00050	<0.0030
L1935151-3	WQ28	Surface		5/30/2017	<0.000010	<2.0	0.0240	-	<0.000010	<0.00010	<0.010	0.000177	<0.00050	<0.0030
L1939712-1	WQ28	Surface		6/7/2017	<0.000010	<2.0	0.0303	-	<0.000010	<0.00010	<0.010	0.000160	<0.00050	<0.0030
L1961670-5	WQ28	Surface	Dup	7/18/2017	<0.000010	2.60	0.0631	-	<0.000010	<0.00010	<0.010	0.000140	<0.00050	<0.0030
L1961670-4	WQ28	Surface		7/18/2017	<0.000010	2.60	0.0631	-	<0.000010	<0.00010	<0.010	0.000141	<0.00050	<0.0030
L1984944-2	WQ28	Surface		8/30/2017	<0.000010	3.50	0.103	0.720	<0.000010	<0.00010	<0.010	0.000269	<0.00050	<0.0030
L1988832-3	WQ28	Surface		9/8/2017	<0.000010	3.40	0.0965	0.920	<0.000010	<0.00010	<0.010	0.000239	<0.00050	<0.0030
L1991279-1	WQ28	Surface		9/13/2017	<0.000010	3.30	0.0885	0.790	<0.000010	<0.00010	<0.010	0.000201	<0.00050	<0.0030
L1995655-3	WQ28	Surface	Dup	9/21/2017	<0.000010	2.90	0.0694	0.820	<0.000010	<0.00010	<0.010	0.000118	<0.00050	<0.0030
L1995655-5	WQ28	Surface		9/21/2017	<0.000010	2.90	0.0693	0.810	<0.000010	<0.00010	<0.010	0.000118	<0.00050	<0.0030
L1999769-3	WQ28	Surface	Dup	9/28/2017	<0.000010	3.20	0.0769	0.740	<0.000010	<0.00010	<0.010	0.000166	<0.00050	<0.0030
L1999769-4	WQ28	Surface		9/28/2017	<0.000010	3.20	0.0781	0.830	<0.000010	<0.00010	<0.010	0.000162	<0.00050	<0.0030
L2011329-4	WQ28	Surface		10/19/2017	<0.000010	2.40	0.0492	0.760	<0.000010	<0.00010	<0.010	0.000150	<0.00050	<0.0030

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LabID	Site	Depth	QAQC	Date	Total Metals									
					Silver (Ag)-Dissolved	Sodium (Na)-Dissolved	Strontium (Sr)-Dissolved	Sulfur (S)-Dissolved	Thallium (Tl)-Dissolved	Tin (Sn)-Dissolved	Titanium (Ti)-Dissolved	Uranium (U)-Dissolved	Vanadium (V)-Dissolved	Zinc (Zn)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2020946-3	WQ28	Surface		11/8/2017	<0.000010	2.00	0.0550	0.510	<0.000010	<0.00010	<0.010	0.000135	<0.00050	<0.0030
L2035356-1	WQ28	Surface		12/12/2017	<0.000010	2.60	0.0589	<0.50	<0.000010	<0.00010	<0.010	0.000150	<0.00050	<0.0030
L2049678-5	WQ28	Surface		1/24/2018	<0.000010	3.10	0.0799	0.550	<0.000010	<0.00010	<0.010	0.000188	<0.00050	<0.0030
L2057605-3	WQ28	Surface		2/14/2018	<0.000010	2.90	0.0773	<0.50	<0.000010	<0.00010	<0.010	0.000195	<0.00050	<0.0030
L2074294-6	WQ28	Surface		3/28/2018	<0.000010	2.90	0.0813	1.00	<0.000010	<0.00010	<0.010	0.000225	<0.00050	<0.0030
L2081503-7	WQ28	Surface		4/17/2018	<0.000010	3.10	0.0838	0.750	<0.000010	<0.00010	<0.010	0.000222	<0.00050	<0.0030
L2093061-3	WQ28	Surface	Dup	5/9/2018	<0.000010	<2.0	0.0239	<0.50	<0.000010	<0.00010	<0.010	0.000129	<0.00050	<0.0030
L2093061-2	WQ28	Surface		5/9/2018	0.0000120	<2.0	0.0240	<0.50	<0.000010	<0.00010	<0.010	0.000126	<0.00050	<0.0030
L2097084-7	WQ28	Surface		5/16/2018	<0.000010	<2.0	0.0205	<0.50	<0.000010	<0.00010	<0.010	0.000148	<0.00050	<0.0030
L2100419-2	WQ28	Surface		5/23/2018	<0.000010	<2.0	0.0233	<0.50	<0.000010	<0.00010	<0.010	0.000165	<0.00050	<0.0030
L2103632-6	WQ28	Surface		5/29/2018	<0.000010	<2.0	0.0299	<0.50	<0.000010	<0.00010	<0.010	0.000152	<0.00050	<0.0030
L2106738-2	WQ28	Surface		6/4/2018	<0.000010	<2.0	0.0306	<0.50	<0.000010	<0.00010	<0.010	0.000158	<0.00050	<0.0030
L2132986-3	WQ28	Surface		7/18/2018	<0.000010	2.70	0.0649	<0.50	<0.000010	<0.00010	<0.010	0.000138	<0.00050	<0.0010
L2143640-7	WQ28	Surface		8/7/2018	<0.000010	2.80	0.0709	<0.50	<0.000010	<0.00010	<0.010	0.000154	<0.00050	<0.0010
L2156026-3	WQ28	Surface		8/28/2018	<0.000010	3.40	0.0897	0.730	<0.000010	<0.00010	<0.010	0.000221	<0.00050	<0.0010
L2159605-4	WQ28	Surface	Dup	9/4/2018	<0.000010	3.40	0.0870	1.07	<0.000010	<0.00010	<0.010	0.000210	<0.00050	<0.0010
L2159605-3	WQ28	Surface		9/4/2018	<0.000010	3.50	0.0862	1.04	<0.000010	<0.00010	<0.010	0.000217	<0.00050	<0.0010
L2160840-3	WQ28	Surface		9/7/2018	<0.000010	3.40	0.0904	0.770	<0.000010	<0.00010	<0.010	0.000235	<0.00050	<0.0010
L2163669-5	WQ28	Surface		9/11/2018	<0.000010	3.30	0.0804	0.700	<0.000010	<0.00010	<0.010	0.000183	<0.00050	<0.0010
L2188218-2	WQ28	Surface		10/26/2018	<0.000010	2.50	0.0587	<0.50	<0.000010	<0.00010	<0.010	0.000142	<0.00050	<0.0010
L2204508-5	WQ28	Surface		11/29/2018	<0.000010	<2.0	0.0517	<0.50	<0.000010	<0.00010	<0.010	0.000127	<0.00050	<0.0010
L2213246-4	WQ28	Surface		12/18/2018	<0.000010	2.70	0.0624	<0.50	<0.000010	<0.00010	<0.010	0.000141	<0.00050	<0.0010
L2227701-4	WQ28	Surface		1/30/2019	<0.000010	3.10	0.0665	0.610	<0.000010	<0.00010	<0.010	0.000168	<0.00050	<0.0010
L2232050-3	WQ28	Surface		2/11/2019	<0.000010	3.20	0.0818	1.04	<0.000010	<0.00010	<0.010	0.000224	<0.00050	<0.0010
L2244756-4	WQ28	Surface		3/13/2019	<0.000010	3.30	0.0987	0.870	<0.000010	<0.00010	<0.010	0.000312	<0.00050	<0.0010
L2256053-4	WQ28	Surface		4/8/2019	<0.000010	3.10	0.0845	0.720	<0.000010	<0.00010	<0.010	0.000149	<0.00050	<0.0010
L2269368-4	WQ28	Surface		5/4/2019	<0.000010	2.10	0.0334	<0.50	<0.000010	<0.00010	<0.010	0.000136	<0.00050	<0.0010
L2274397-2	WQ28	Surface		5/14/2019	<0.000010	<2.0	0.0303	<0.50	<0.000010	<0.00010	<0.010	0.000167	<0.00050	<0.0010
L2277964-8	WQ28	Surface	Dup	5/21/2019	<0.000010	<2.0	0.0253	<0.50	<0.000010	<0.00010	<0.010	0.000163	<0.00050	0.00120
L2277964-5	WQ28	Surface		5/21/2019	<0.000010	<2.0	0.0250	<0.50	<0.000010	<0.00010	<0.010	0.000164	<0.00050	0.00130
L2282975-6	WQ28	Surface	Dup	5/29/2019	<0.000010	<2.0	0.0293	<0.50	<0.000010	<0.00010	<0.010	0.000167	<0.00050	<0.0010
L2282975-4	WQ28	Surface		5/29/2019	<0.000010	<2.0	0.0321	<0.50	<0.000010	<0.00010	<0.010	0.000169	<0.00050	<0.0010
L2285579-4	WQ28	Surface		6/3/2019	<0.000010	<2.0	0.0356	<0.50	<0.000010	<0.00010	<0.010	0.000162	<0.00050	<0.0010
L2312637-5	WQ28	Surface		7/16/2019	<0.000010	<2.0	0.0396	<0.50	<0.000010	<0.00010	<0.010	0.000129	<0.00050	<0.0010
L2326388-4	WQ28	Surface		8/8/2019	<0.000010	2.20	0.0460	<0.50	<0.000010	<0.00010	<0.010	0.000143	<0.00050	<0.0010
L2350223-3	WQ28	Surface		9/17/2019	<0.000010	2.50	0.0572	<0.50	<0.000010	<0.00010	<0.010	0.000131	<0.00050	<0.0010
L2372667-3	WQ28	Surface		10/23/2019	<0.000010	2.20	0.0418	<0.50	<0.000010	<0.00010	<0.010	0.000120	<0.00050	<0.0010
L2383392-4	WQ28	Surface		11/14/2019	<0.000010	2.10	0.0393	<0.50	<0.000010	<0.00010	<0.010	0.000130	<0.00050	<0.0010
VA19A0726-003	WQ28	Surface		12/16/2019	<0.000010	2.32	0.0452	<0.50	<0.000010	<0.00010	0.000920	0.000136	<0.00050	<0.0010
VA20A0812-003	WQ28	Surface		1/23/2020	<0.000010	2.69	0.0630	0.660	<0.000010	<0.00010	0.000460	0.000150	<0.00050	<0.0010
VA20A1887-004	WQ28	Surface		2/13/2020	<0.000010	2.54	0.0734	0.620	<0.000010	<0.00010	0.000360	0.000179	<0.00050	<0.0010
VA20A3516-004	WQ28	Surface		3/16/2020	<0.000010	3.13	0.0780	0.820	<0.000010	<0.00010	<0.00030	0.000210	<0.00050	<0.0010
VA20A4369-003	WQ28	Surface		4/1/2020	<0.000010	3.17	0.0846	0.690	<0.000010	<0.00010	<0.00030	0.000208	<0.00050	<0.0010
VA20A6356-004	WQ28	Surface		5/11/2020	<0.000010	1.49	0.0284	<0.50	<0.000010	<0.00010	0.00204	0.000110	<0.00050	0.00110

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					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
VA20B2426-005	WQ28	Surface		8/10/2020	<0.00010	2.29	0.0542	<0.50	<0.00010	<0.00010	0.000460	0.000133	<0.00050	<0.0010
VA20C0197-004	WQ28	Surface		11/4/2020	<0.00010	1.72	0.0355	<0.50	<0.00010	<0.00010	0.00330	0.000152	<0.00050	<0.0010
L2238112-1	WQ29	Surface		2/26/2019	<0.00010	4.20	0.108	1.29	<0.00010	<0.00010	<0.010	0.000152	<0.00050	<0.0010
L2278768-1	WQ29	Surface		5/22/2019	<0.00010	2.80	0.0681	1.16	<0.00010	<0.00010	<0.010	0.0000840	0.000500	<0.0010
L2325935-4	WQ29	Surface	Dup	8/7/2019	<0.00010	3.30	0.0943	0.530	<0.00010	<0.00010	<0.010	0.0000940	<0.00050	<0.0010
L2325935-2	WQ29	Surface		8/7/2019	<0.00010	3.60	0.0938	0.550	<0.00010	<0.00010	<0.010	0.0000970	<0.00050	<0.0010
L2388381-6	WQ29	Surface	Dup	11/25/2019	<0.00010	3.10	0.0809	0.790	<0.00010	<0.00010	<0.010	0.0000870	<0.00050	<0.0010
L2388381-5	WQ29	Surface		11/25/2019	<0.00010	3.10	0.0796	0.820	<0.00010	<0.00010	<0.010	0.0000850	<0.00050	<0.0010
VA20A1056-001	WQ29	Surface		1/28/2020	<0.00010	3.88	0.0956	1.36	<0.00010	<0.00010	<0.00030	0.000122	<0.00050	<0.0010
VA20A1776-001	WQ29	Surface		2/2/2020	<0.00010	3.89	0.0959	1.23	<0.00010	<0.00010	<0.00030	0.000116	<0.00050	0.00160
VA20A3580-003	WQ29	Surface	Dup	3/17/2020	<0.00010	4.23	0.112	0.990	<0.00010	<0.00010	<0.00030	0.000151	<0.00050	<0.0010
VA20A3580-001	WQ29	Surface		3/17/2020	<0.00010	4.44	0.112	0.960	<0.00010	<0.00010	<0.00030	0.000148	<0.00050	<0.0010
VA20A4424-003	WQ29	Surface	Dup	4/2/2020	<0.00010	4.29	0.113	1.24	<0.00010	<0.00010	<0.00030	0.000167	<0.00050	<0.0010
VA20A4424-001	WQ29	Surface		4/2/2020	<0.00010	4.30	0.109	1.22	<0.00010	<0.00010	<0.00030	0.000164	<0.00050	<0.0010
VA20A6114-001	WQ29	Surface		5/6/2020	<0.00010	2.84	0.0690	0.990	<0.00010	<0.00010	0.000680	0.0000600	<0.00050	<0.0010
VA20A6503-001	WQ29	Surface		5/13/2020	<0.00010	2.99	0.0804	<0.50	<0.00010	<0.00010	0.000600	0.0000710	<0.00050	0.00150
VA20A6869-004	WQ29	Surface		5/20/2020	<0.00010	2.92	0.0784	0.960	<0.00010	<0.00010	0.000560	0.0000780	<0.00050	<0.0010
VA20A7367-004	WQ29	Surface		5/28/2020	<0.00010	2.83	0.0748	0.740	<0.00010	<0.00010	0.000420	0.0000900	<0.00050	<0.0010
VA20A7797-001	WQ29	Surface		6/3/2020	<0.00010	2.98	0.0899	0.680	<0.00010	<0.00010	<0.00030	0.0000990	<0.00050	<0.0010
VA20B0021-001	WQ29	Surface		7/7/2020	<0.00010	3.12	0.0859	0.650	<0.00010	<0.00010	0.000350	0.0000840	<0.00050	0.00310
VA20B2012-001	WQ29	Surface		8/4/2020	<0.00010	3.33	0.0982	1.04	<0.00010	<0.00010	<0.00030	0.000121	0.000520	<0.0010
VA20B2542-001	WQ29	Surface		8/11/2020	<0.00010	3.80	0.0956	0.950	<0.00010	<0.00010	<0.00030	0.000130	<0.00050	<0.0010
VA20B3033-001	WQ29	Surface		8/17/2020	<0.00010	3.67	0.104	0.940	<0.00010	<0.00010	0.000310	0.000123	0.000510	<0.0010
VA20B3860-001	WQ29	Surface		8/26/2020	<0.00010	3.97	0.100	1.03	<0.00010	<0.00010	<0.00030	0.000112	<0.00050	<0.0010
VA20B4443-001	WQ29	Surface		9/2/2020	<0.00010	4.12	0.112	1.05	<0.00010	<0.00010	<0.00030	0.000117	<0.00050	<0.0010
VA20B7828-004	WQ29	Surface	Dup	10/8/2020	<0.00010	3.98	0.109	0.920	<0.00010	<0.00010	<0.00030	0.000126	<0.00050	<0.0010
VA20B7828-001	WQ29	Surface		10/8/2020	<0.00010	3.87	0.112	1.02	<0.00010	<0.00010	<0.00030	0.000119	<0.00050	<0.0010
VA20B9945-001	WQ29	Surface		11/2/2020	<0.00010	3.04	0.0706	1.23	<0.00010	<0.00010	0.00200	0.0000720	0.000660	<0.0010
	WQ3	Surface		5/17/2011	< 0.00005	2.00	0.0409	-	< 0.00005	< 0.0001	0.00360	0.000120	0.00127	0.00500
	WQ3	Surface		5/25/2011	< 0.00005	1.60	0.0276	-	< 0.00005	< 0.0001	0.00410	0.000140	0.00102	0.00300
	WQ3	Surface		5/31/2011	< 0.00005	1.50	0.0248	-	< 0.00005	< 0.0001	0.00230	0.000120	0.00101	0.00550
	WQ3	Surface		6/7/2011	< 0.00005	1.80	0.0326	-	< 0.00005	< 0.0001	0.00140	0.000120	0.000850	0.00980
	WQ3	Surface		6/14/2011	< 0.00005	2.10	0.0405	-	< 0.00005	< 0.0001	0.00130	0.000110	0.000880	0.00130
	WQ3	Surface		7/19/2011	< 0.00005	2.40	0.0510	-	< 0.00005	< 0.0001	0.00120	0.000110	0.000990	0.00130
	WQ3	Surface		8/16/2011	< 0.00005	3.00	0.0652	-	< 0.00005	< 0.0001	0.000700	0.000120	0.00107	0.000900
	WQ3	Surface		9/20/2011	< 0.00005	3.40	0.0787	-	< 0.00005	< 0.0001	0.000300	0.000140	0.00112	0.000700
	WQ3	Surface		10/18/2011	< 0.00005	3.40	0.0734	-	< 0.00005	< 0.0001	0.000400	0.000150	0.00120	< 0.0005
	WQ3	Surface		11/15/2011	< 0.00005	3.40	0.0755	-	< 0.00005	< 0.0001	0.000400	0.000170	0.00135	0.00160
	WQ3	Surface		12/12/2011	< 0.00005	3.60	0.0815	-	< 0.00005	< 0.0001	0.000200	0.000160	0.00140	< 0.0005
	WQ3	Surface		1/12/2012	< 0.00005	3.60	0.0866	-	< 0.00005	< 0.0001	0.000200	0.000160	0.00150	0.00870
	WQ3	Surface		2/13/2012	< 0.00005	3.50	0.0827	-	< 0.00005	< 0.0001	< 0.0002	0.000180	0.00142	< 0.0005
	WQ3	Surface		3/12/2012	< 0.00005	3.50	0.0738	-	< 0.00005	< 0.0001	0.000200	0.000170	0.00118	0.00150
	WQ3	Surface		4/16/2012	< 0.00005	3.70	0.0769	-	< 0.00005	< 0.0001	< 0.0002	0.000170	0.00159	< 0.0005
	WQ3	Surface		5/14/2012	< 0.00005	2.40	0.0507	-	< 0.00005	< 0.0001	0.00210	0.000120	0.00103	0.00270

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals									
					Silver (Ag)-Dissolved	Sodium (Na)-Dissolved	Strontium (Sr)-Dissolved	Sulfur (S)-Dissolved	Thallium (Tl)-Dissolved	Tin (Sn)-Dissolved	Titanium (Ti)-Dissolved	Uranium (U)-Dissolved	Vanadium (V)-Dissolved	Zinc (Zn)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ3	Surface		5/22/2012	< 0.00005	2.00	0.0388	-	< 0.00005	< 0.0001	0.00200	0.0000900	0.000860	0.00950
	WQ3	Surface		5/29/2012	< 0.00005	2.10	0.0393	-	< 0.00005	< 0.0001	0.00140	0.000100	0.000660	0.00160
	WQ3	Surface		6/5/2012	< 0.00005	2.20	0.0424	-	< 0.00005	< 0.0001	0.00100	0.0000900	0.000520	< 0.0005
	WQ3	Surface		6/12/2012	< 0.00005	2.40	0.0475	-	< 0.00005	< 0.0001	0.00120	0.0000900	0.000850	0.000900
	WQ3	Surface		6/19/2012	< 0.00005	2.60	0.0482	-	< 0.00005	< 0.0001	0.00130	0.000100	0.00114	0.00280
	WQ3	Surface		7/17/2012	< 0.00005	3.20	0.0694	-	< 0.00005	< 0.0001	0.000800	0.000110	0.00122	0.000700
	WQ3	Surface		8/14/2012	< 0.00005	3.70	0.0833	-	< 0.00005	< 0.0001	0.000600	0.000140	0.00144	0.00150
	WQ3	Surface		9/18/2012	< 0.00005	3.60	0.0812	-	< 0.00005	< 0.0001	0.000400	0.000170	0.00164	< 0.0005
	WQ3	Surface		10/15/2012	< 0.00005	4.20	0.0797	-	< 0.00005	< 0.0001	0.000300	0.000170	0.00161	0.00270
	WQ3	Surface		11/13/2012	< 0.00005	3.80	0.0755	-	< 0.00005	< 0.0001	0.000500	0.000170	0.000990	0.00240
	WQ3	Surface		12/10/2012	< 0.00005	3.70	0.102	-	< 0.00005	< 0.0001	< 0.0002	0.000100	< 0.00005	0.00110
	WQ3	Surface		1/13/2013	< 0.00005	3.90	0.0830	-	< 0.00005	< 0.0001	0.000300	0.000210	0.00147	0.00230
	WQ3	Surface		2/12/2013	< 0.00005	4.10	0.0827	-	< 0.00005	< 0.0001	0.000300	0.000150	0.00123	0.00440
	WQ3	Surface		3/11/2013	< 0.00005	4.10	0.0873	-	< 0.00005	< 0.0001	0.000300	0.000200	0.00127	0.00190
	WQ3	Surface		4/15/2013	< 0.00005	3.30	0.0806	-	< 0.00005	< 0.0001	0.000700	0.000160	0.000890	0.00220
	WQ3	Surface		5/13/2013	< 0.00005	2.00	0.0386	-	< 0.00005	< 0.0001	0.00410	0.000130	0.000790	0.00410
	WQ3	Surface		5/22/2013	< 0.00005	2.30	0.0452	-	< 0.00005	< 0.0001	0.00230	0.000100	0.000420	0.00190
	WQ3	Surface		5/27/2013	< 0.00005	2.40	0.0237	-	< 0.00005	< 0.0001	0.00250	0.000120	0.000420	< 0.0005
	WQ3	Surface		6/6/2013	< 0.00005	2.20	0.0411	-	< 0.00005	< 0.0001	0.00230	0.000130	0.000590	0.00160
	WQ3	Surface		6/10/2013	< 0.00005	2.50	0.0494	-	< 0.00005	< 0.0001	0.00190	0.000120	< 0.00005	0.00150
	WQ3	Surface		6/17/2013	< 0.00005	< 0.5	0.0460	-	< 0.00005	< 0.0001	0.00230	0.000110	< 0.00005	0.00110
	WQ3	Surface	Dup	4/13/2014	< 0.00005	3.50	0.0774	-	< 0.00005	< 0.0001	0.000400	0.000190	0.000600	0.00190
	WQ3	Surface		4/13/2014	< 0.00005	3.40	0.0763	-	< 0.00005	< 0.0001	0.000300	0.000180	0.000570	0.00120
	WQ3	Surface		7/2/2014	< 0.00005	3.20	0.0682	-	< 0.00005	< 0.0001	0.000800	0.000120	0.00112	0.00230
	WQ3	Surface		9/24/2014	< 0.00005	4.00	0.0893	-	< 0.00005	< 0.0001	0.000300	0.000170	0.00159	0.00230
	WQ3	Surface		12/9/2014	< 0.00005	3.80	0.0818	-	< 0.00005	< 0.0001	0.000300	0.000160	0.00153	0.00270
L1926080-7	WQ3	Surface		5/11/2017	<0.00010	2.60	0.0481	-	<0.00010	<0.00010	<0.010	0.000116	0.00143	<0.0030
L1962414-1	WQ3	Surface		7/19/2017	<0.00010	3.20	0.0463	-	<0.00010	<0.00010	<0.010	0.000175	0.00305	<0.0030
L1988190-1	WQ3	Surface		9/6/2017	<0.00010	3.80	0.0729	<0.50	<0.00010	<0.00010	<0.010	0.000212	0.00209	<0.0030
L2010514-1	WQ3	Surface		10/18/2017	<0.00010	3.00	0.0570	<0.50	<0.00010	<0.00010	<0.010	0.000117	0.00131	<0.0030
L2060442-1	WQ3	Surface		2/23/2018	<0.00010	3.50	0.0799	<0.50	<0.00010	<0.00010	<0.010	0.0000870	0.00104	<0.0030
L2103632-1	WQ3	Surface		5/29/2018	<0.00010	2.30	0.0470	<0.50	<0.00010	<0.00010	<0.010	0.000119	0.00143	<0.0030
L2143640-2	WQ3	Surface		8/7/2018	<0.00010	3.40	0.0799	<0.50	<0.00010	<0.00010	<0.010	0.000152	0.00170	<0.0010
L2204508-2	WQ3	Surface		11/29/2018	<0.00010	2.80	0.0690	<0.50	<0.00010	<0.00010	<0.010	0.0000920	0.00120	<0.0010
L2232772-1	WQ3	Surface		2/12/2019	<0.00010	3.80	0.0786	0.510	<0.00010	<0.00010	<0.010	0.000145	0.00132	<0.0010
L2273497-2	WQ3	Surface		5/13/2019	<0.00010	2.50	0.0497	<0.50	<0.00010	<0.00010	<0.010	0.0000960	0.00119	<0.0010
L2328474-1	WQ3	Surface		8/12/2019	<0.00010	2.70	0.0557	<0.50	<0.00010	<0.00010	<0.010	0.000112	0.00137	<0.0010
L2385426-1	WQ3	Surface		11/18/2019	<0.00010	2.50	0.0459	<0.50	<0.00010	<0.00010	<0.010	0.000104	0.00111	<0.0010
VA20A1830-002	WQ3	Surface		2/12/2020	<0.00010	3.16	0.0670	<0.50	<0.00010	<0.00010	0.000500	0.000136	0.00120	<0.0010
VA20A6574-001	WQ3	Surface		5/14/2020	<0.00010	2.05	0.0357	<0.50	<0.00010	<0.00010	0.00133	0.000104	0.00115	<0.0010
VA20B2692-002	WQ3	Surface		8/12/2020	<0.00010	3.55	0.0832	<0.50	<0.00010	<0.00010	0.000480	0.000159	0.00152	<0.0010
VA20C1166-001	WQ3	Surface		11/17/2020	<0.00010	2.82	0.0528	<0.50	<0.00010	<0.00010	0.00194	0.000112	0.00113	<0.0010
L2239149-1	WQ30	Surface		2/28/2019	<0.00010	4.70	0.113	1.60	<0.00010	<0.00010	<0.010	0.000175	<0.00050	0.00190
L2278768-2	WQ30	Surface		5/22/2019	<0.00010	2.80	0.0667	1.16	<0.00010	<0.00010	<0.010	0.0000740	0.000570	<0.0010

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LabID	Site	Depth	QAQC	Date	Total Metals									
					Silver (Ag)-Dissolved	Sodium (Na)-Dissolved	Strontium (Sr)-Dissolved	Sulfur (S)-Dissolved	Thallium (Tl)-Dissolved	Tin (Sn)-Dissolved	Titanium (Ti)-Dissolved	Uranium (U)-Dissolved	Vanadium (V)-Dissolved	Zinc (Zn)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2325935-1	WQ30	Surface		8/7/2019	<0.000010	3.40	0.0923	0.740	<0.000010	<0.00010	<0.010	0.0000920	<0.00050	<0.0010
L2385426-3	WQ30	Surface		11/18/2019	<0.000010	3.20	0.0747	0.930	<0.000010	<0.00010	<0.010	0.0000800	<0.00050	<0.0010
VA20A1056-002	WQ30	Surface		1/28/2020	<0.000010	4.06	0.106	1.62	<0.000010	<0.00010	<0.00030	0.000144	<0.00050	<0.0010
VA20A1776-002	WQ30	Surface		2/2/2020	<0.000010	4.02	0.102	1.41	<0.000010	<0.00010	<0.00030	0.000129	<0.00050	0.00150
VA20A3580-002	WQ30	Surface		3/17/2020	<0.000010	4.76	0.122	1.32	<0.000010	<0.00010	<0.00030	0.000173	<0.00050	<0.0010
VA20A4424-002	WQ30	Surface		4/2/2020	<0.000010	4.59	0.116	1.32	<0.000010	<0.00010	<0.00030	0.000201	<0.00050	<0.0010
VA20A6114-002	WQ30	Surface		5/6/2020	<0.000010	2.83	0.0709	0.780	<0.000010	<0.00010	0.000700	0.0000620	<0.00050	0.00270
VA20A6503-005	WQ30	Surface	Dup	5/13/2020	<0.000010	2.97	0.0797	0.580	<0.000010	<0.00010	0.000630	0.0000640	<0.00050	0.00150
VA20A6503-002	WQ30	Surface		5/13/2020	<0.000010	3.00	0.0802	<0.50	<0.000010	<0.00010	0.000610	0.0000690	<0.00050	0.00190
VA20A6869-005	WQ30	Surface		5/20/2020	<0.000010	2.97	0.0752	0.850	<0.000010	<0.00010	0.000650	0.0000780	<0.00050	<0.0010
VA20A7367-005	WQ30	Surface		5/28/2020	<0.000010	2.91	0.0763	0.570	<0.000010	<0.00010	0.000480	0.0000920	<0.00050	0.00220
VA20A7797-002	WQ30	Surface		6/3/2020	<0.000010	2.96	0.0916	0.550	<0.000010	<0.00010	<0.00030	0.000104	<0.00050	<0.0010
VA20B0021-002	WQ30	Surface		7/7/2020	<0.000010	3.03	0.0832	0.660	<0.000010	<0.00010	0.00217	0.0000860	<0.00050	<0.0010
VA20B2012-002	WQ30	Surface		8/4/2020	<0.000010	3.68	0.0966	0.960	<0.000010	<0.00010	<0.00030	0.000146	0.000520	<0.0010
VA20B2542-002	WQ30	Surface		8/11/2020	<0.000010	4.07	0.101	0.840	<0.000010	<0.00010	<0.00030	0.000144	<0.00050	0.00110
VA20B3033-002	WQ30	Surface		8/17/2020	<0.000010	3.92	0.106	0.880	<0.000010	<0.00010	<0.00030	0.000132	<0.00050	<0.0010
VA20B3860-006	WQ30	Surface	Dup	8/26/2020	<0.000010	3.99	0.107	1.03	<0.000010	<0.00010	<0.00030	0.000128	<0.00050	<0.0010
VA20B3860-002	WQ30	Surface		8/26/2020	<0.000010	4.21	0.109	0.980	<0.000010	<0.00010	<0.00030	0.000129	<0.00050	<0.0010
VA20B4443-002	WQ30	Surface		9/2/2020	<0.000010	4.18	0.107	0.640	<0.000010	<0.00010	<0.00030	0.000131	<0.00050	<0.0010
VA20B7828-002	WQ30	Surface		10/8/2020	<0.000010	3.99	0.109	1.10	<0.000010	<0.00010	<0.00030	0.000138	<0.00050	<0.0010
VA20B9945-002	WQ30	Surface		11/2/2020	<0.000010	2.90	0.0750	0.880	<0.000010	<0.00010	0.00262	0.0000690	0.000530	<0.0010
VA20A0688-001	WQ31	Surface		1/21/2020	<0.000010	2.14	0.0493	<0.50	<0.000010	<0.00010	0.00137	0.0000920	<0.00050	0.00250
VA20A1887-003	WQ31	Surface		2/13/2020	<0.000010	2.10	0.0523	<0.50	<0.000010	<0.00010	0.00101	0.0000900	<0.00050	<0.0010
VA20A3516-005	WQ31	Surface		3/16/2020	<0.000010	2.61	0.0563	<0.50	<0.000010	<0.00010	0.000660	0.0000870	<0.00050	<0.0010
VA20A4369-004	WQ31	Surface		4/1/2020	<0.000010	2.62	0.0619	<0.50	<0.000010	<0.00010	0.000670	0.0000800	<0.00050	<0.0010
VA20A6356-005	WQ31	Surface		5/11/2020	<0.000010	1.25	0.0294	<0.50	<0.000010	<0.00010	0.00245	0.0000990	<0.00050	0.00190
VA20A7672-005	WQ31	Surface	Dup	6/2/2020	<0.000010	1.35	0.0322	<0.50	<0.000010	<0.00010	0.00139	0.000129	<0.00050	0.00110
VA20A7672-001	WQ31	Surface		6/2/2020	<0.000010	1.36	0.0324	<0.50	<0.000010	<0.00010	0.00146	0.000128	<0.00050	<0.0010
VA20A9918-004	WQ31	Surface		7/6/2020	<0.000010	1.75	0.0373	<0.50	<0.000010	<0.00010	0.00174	0.000133	<0.00050	<0.0010
VA20B2426-002	WQ31	Surface		8/10/2020	<0.000010	1.97	0.0457	<0.50	<0.000010	<0.00010	0.00112	0.000117	<0.00050	<0.0010
VA20B4313-004	WQ31	Surface	Dup	9/1/2020	<0.000010	2.01	0.0544	<0.50	<0.000010	<0.00010	0.000840	0.000116	<0.00050	<0.0010
VA20B4313-002	WQ31	Surface		9/1/2020	<0.000010	2.21	0.0537	<0.50	<0.000010	<0.00010	0.00101	0.000114	0.000540	0.00390
VA20B7624-005	WQ31	Surface		10/6/2020	<0.000010	2.42	0.0604	<0.50	<0.000010	<0.00010	0.000900	0.000105	<0.00050	<0.0010
VA20C0197-001	WQ31	Surface		11/4/2020	<0.000010	1.50	0.0359	<0.50	<0.000010	<0.00010	0.00338	0.000123	<0.00050	<0.0010
	WQ4	Surface		5/17/2011	< 0.00005	1.40	0.0318	-	< 0.00005	< 0.0001	0.00220	< 0.00005	0.000200	0.0617
	WQ4	Surface		5/24/2011	< 0.00005	1.10	0.0301	-	< 0.00005	< 0.0001	0.00230	< 0.00005	< 0.00005	0.0534
	WQ4	Surface		5/30/2011	< 0.00005	1.00	0.0243	-	< 0.00005	< 0.0001	0.00160	0.0000500	< 0.00005	0.0534
	WQ4	Surface		6/6/2011	< 0.00005	1.00	0.0228	-	< 0.00005	< 0.0001	0.00100	< 0.00005	< 0.00005	0.0477
	WQ4	Surface		6/13/2011	< 0.00005	1.10	0.0245	-	< 0.00005	< 0.0001	0.000800	< 0.00005	< 0.00005	0.0412
	WQ4	Surface		7/18/2011	< 0.00005	1.40	0.0291	-	< 0.00005	< 0.0001	0.00130	< 0.00005	0.0000900	0.0400
	WQ4	Surface		8/15/2011	< 0.00005	1.60	0.0349	-	< 0.00005	< 0.0001	0.000500	< 0.00005	< 0.00005	0.0304
	WQ4	Surface		9/19/2011	< 0.00005	1.80	0.0416	-	< 0.00005	< 0.0001	0.000400	< 0.00005	< 0.00005	0.0257
	WQ4	Surface		10/17/2011	< 0.00005	1.80	0.0355	-	< 0.00005	< 0.0001	0.000400	< 0.00005	< 0.00005	0.0247
	WQ4	Surface		11/14/2011	< 0.00005	1.60	0.0326	-	< 0.00005	< 0.0001	0.000400	< 0.00005	< 0.00005	0.0248

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals									
					Silver (Ag)-Dissolved	Sodium (Na)-Dissolved	Strontium (Sr)-Dissolved	Sulfur (S)-Dissolved	Thallium (Tl)-Dissolved	Tin (Sn)-Dissolved	Titanium (Ti)-Dissolved	Uranium (U)-Dissolved	Vanadium (V)-Dissolved	Zinc (Zn)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ4	Surface	Dup	5/15/2012	< 0.00005	2.00	0.0315	-	< 0.00005	< 0.0001	0.00250	< 0.00005	0.0000900	0.0520
	WQ4	Surface		5/15/2012	< 0.00005	2.00	0.0318	-	< 0.00005	< 0.0001	0.00300	< 0.00005	0.000100	0.0534
	WQ4	Surface		5/23/2012	< 0.00005	2.00	0.0305	-	< 0.00005	< 0.0001	0.00360	0.0000500	0.000120	0.0506
	WQ4	Surface		5/28/2012	< 0.00005	1.80	0.0278	-	< 0.00005	< 0.0001	0.00160	< 0.00005	< 0.00005	0.0452
	WQ4	Surface		6/4/2012	< 0.00005	1.80	0.0285	-	< 0.00005	< 0.0001	0.00100	< 0.00005	< 0.00005	0.0423
	WQ4	Surface		6/11/2012	< 0.00005	1.90	0.0318	-	< 0.00005	< 0.0001	0.00110	< 0.00005	< 0.00005	0.0493
	WQ4	Surface		6/18/2012	< 0.00005	1.90	0.0299	-	< 0.00005	< 0.0001	0.000700	< 0.00005	0.000120	0.0468
	WQ4	Surface		7/16/2012	< 0.00005	2.10	0.0404	-	< 0.00005	< 0.0001	0.00160	< 0.00005	0.0000800	0.0345
	WQ4	Surface		8/13/2012	< 0.00005	2.40	0.0496	-	< 0.00005	< 0.0001	0.00120	< 0.00005	0.000100	0.0307
	WQ4	Surface		9/17/2012	< 0.00005	2.20	0.0456	-	< 0.00005	< 0.0001	0.000400	< 0.00005	< 0.00005	0.0253
	WQ4	Surface		10/16/2012	< 0.00005	3.20	0.0526	-	< 0.00005	< 0.0001	0.00450	0.0000700	0.000150	0.0511
	WQ4	Surface		11/12/2012	< 0.00005	4.90	0.0563	-	< 0.00005	< 0.0001	0.000800	< 0.00005	< 0.00005	0.0411
	WQ4	Surface		12/10/2012	0.0000600	5.50	0.0836	-	< 0.00005	< 0.0001	0.000600	< 0.00005	< 0.00005	0.0370
	WQ4	Surface		5/14/2013	0.000140	2.70	0.0300	-	< 0.00005	< 0.0001	0.00330	0.0000500	< 0.00005	0.0426
	WQ4	Surface		5/21/2013	0.000120	3.30	0.0334	-	< 0.00005	< 0.0001	0.00180	< 0.00005	< 0.00005	0.0372
	WQ4	Surface		5/28/2013	0.000120	3.80	0.0164	-	< 0.00005	< 0.0001	0.00210	< 0.00005	< 0.00005	0.0381
	WQ4	Surface		6/4/2013	0.0000700	3.30	0.0371	-	< 0.00005	< 0.0001	0.00120	< 0.00005	< 0.00005	0.0364
	WQ4	Surface		6/11/2013	< 0.00005	3.50	0.0404	-	< 0.00005	< 0.0001	0.00100	< 0.00005	< 0.00005	0.0371
	WQ4	Surface		6/18/2013	0.0000500	0.900	0.0407	-	< 0.00005	< 0.0001	0.00130	< 0.00005	< 0.00005	0.0329
L1925102-1	WQ4	Surface		5/9/2017	0.0000290	<2.0	0.0376	-	<0.000010	<0.00010	<0.010	0.0000370	<0.00050	0.0726
L1961670-1	WQ4	Surface		7/18/2017	<0.000010	2.50	0.0607	-	<0.000010	<0.00010	<0.010	0.0000310	<0.00050	0.0414
L2011329-1	WQ4	Surface		10/19/2017	<0.000010	3.10	0.0714	8.30	<0.000010	<0.00010	<0.010	0.0000210	<0.00050	0.0313
L2060101-1	WQ4	Surface		2/22/2018	<0.000010	3.40	0.0932	11.7	<0.000010	<0.00010	<0.010	0.0000160	<0.00050	0.0404
L2102737-1	WQ4	Surface		5/28/2018	<0.000010	<2.0	0.0315	1.87	<0.000010	<0.00010	<0.010	0.0000310	<0.00050	0.0497
L2144658-3	WQ4	Surface		8/8/2018	<0.000010	2.50	0.0554	2.77	<0.000010	<0.00010	<0.010	0.0000310	<0.00050	0.0459
L2204086-2	WQ4	Surface		11/28/2018	<0.000010	2.10	0.0431	2.73	<0.000010	<0.00010	<0.010	0.0000260	<0.00050	0.0403
L2233329-1	WQ4	Surface		2/13/2019	<0.000010	2.50	0.0480	3.14	<0.000010	<0.00010	<0.010	0.0000260	<0.00050	0.0410
L2275791-2	WQ4	Surface	Dup	5/16/2019	<0.000010	2.10	0.0421	3.89	<0.000010	<0.00010	<0.010	0.0000370	<0.00050	0.0339
L2275791-1	WQ4	Surface		5/16/2019	<0.000010	2.00	0.0384	3.22	<0.000010	<0.00010	<0.010	0.0000300	<0.00050	0.0352
L2329543-1	WQ4	Surface		8/13/2019	<0.000010	2.70	0.0577	2.89	<0.000010	<0.00010	<0.010	0.0000260	<0.00050	0.0250
L2378996-2	WQ4	Surface		11/5/2019	<0.000010	2.40	0.0542	4.44	<0.000010	0.000130	<0.010	0.0000200	<0.00050	0.0193
VA20A2211-002	WQ4	Surface		2/20/2020	<0.000010	3.32	0.0970	10.4	<0.000010	<0.00010	<0.00030	0.0000120	<0.00050	0.0228
VA20A6810-002	WQ4	Surface		5/19/2020	0.0000120	1.74	0.0354	2.14	<0.000010	<0.00010	0.000820	0.0000330	<0.00050	0.0305
VA20B2212-003	WQ4	Surface		8/6/2020	<0.000010	3.47	0.0741	5.71	<0.000010	<0.00010	0.000370	0.0000220	<0.00050	0.0216
VA20C1415-002	WQ4	Surface		11/19/2020	<0.000010	2.03	0.0533	4.67	<0.000010	<0.00010	0.000470	0.0000190	<0.00050	0.0220
	WQ5	Surface	Dup	5/17/2011	< 0.00005	1.90	0.0255	-	< 0.00005	< 0.0001	0.00440	0.0000700	0.000570	0.00540
	WQ5	Surface		5/17/2011	< 0.00005	1.90	0.0260	-	< 0.00005	< 0.0001	0.00230	0.0000700	0.000460	0.00200
	WQ5	Surface		5/25/2011	< 0.00005	1.30	0.0178	-	< 0.00005	< 0.0001	0.00270	0.0000800	< 0.00005	0.00150
	WQ5	Surface		5/31/2011	< 0.00005	1.30	0.0161	-	< 0.00005	< 0.0001	0.00150	0.0000800	0.000100	0.00460
	WQ5	Surface		6/7/2011	< 0.00005	1.40	0.0184	-	< 0.00005	< 0.0001	0.00120	0.0000800	0.000160	0.00130
	WQ5	Surface		6/14/2011	< 0.00005	1.50	0.0195	-	< 0.00005	< 0.0001	0.00120	0.0000800	0.000220	0.00140
	WQ5	Surface		7/19/2011	< 0.00005	1.80	0.0265	-	< 0.00005	< 0.0001	0.00120	0.0000800	0.000280	0.00130
	WQ5	Surface		8/16/2011	< 0.00005	2.10	0.0342	-	< 0.00005	< 0.0001	0.000900	0.0000600	0.000220	0.000900
	WQ5	Surface		9/20/2011	< 0.00005	2.80	0.0541	-	< 0.00005	< 0.0001	0.000700	< 0.00005	< 0.00005	0.000700

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LabID	Site	Depth	QAQC	Date	Total Metals									
					Silver (Ag)-Dissolved	Sodium (Na)-Dissolved	Strontium (Sr)-Dissolved	Sulfur (S)-Dissolved	Thallium (Tl)-Dissolved	Tin (Sn)-Dissolved	Titanium (Ti)-Dissolved	Uranium (U)-Dissolved	Vanadium (V)-Dissolved	Zinc (Zn)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ5	Surface		10/18/2011	< 0.00005	2.50	0.0404	-	< 0.00005	< 0.0001	0.000800	0.0000500	0.000150	< 0.0005
	WQ5	Surface		11/15/2011	< 0.00005	2.50	0.0418	-	< 0.00005	< 0.0001	0.000800	0.0000500	0.000200	0.00140
	WQ5	Surface		12/12/2011	< 0.00005	2.90	0.0533	-	< 0.00005	< 0.0001	0.000900	< 0.00005	0.000200	< 0.0005
	WQ5	Surface		5/14/2012	< 0.00005	1.70	0.0227	-	< 0.00005	< 0.0001	0.00290	0.0000800	0.000350	0.00130
	WQ5	Surface		5/22/2012	< 0.00005	1.50	0.0196	-	< 0.00005	< 0.0001	0.00200	0.0000500	0.000220	0.00350
	WQ5	Surface		5/29/2012	< 0.00005	1.50	0.0187	-	< 0.00005	< 0.0001	0.00130	0.0000700	0.0000900	0.00200
	WQ5	Surface		6/5/2012	< 0.00005	1.60	0.0208	-	< 0.00005	< 0.0001	0.00110	0.0000600	< 0.00005	< 0.0005
	WQ5	Surface		6/12/2012	< 0.00005	1.70	0.0235	-	< 0.00005	< 0.0001	0.00130	0.0000600	0.000170	0.00130
	WQ5	Surface		6/19/2012	< 0.00005	1.80	0.0232	-	< 0.00005	< 0.0001	0.00100	0.0000700	0.000320	0.00270
	WQ5	Surface		7/17/2012	< 0.00005	2.30	0.0364	-	< 0.00005	< 0.0001	0.000900	< 0.00005	0.000320	0.00140
	WQ5	Surface		8/14/2012	< 0.00005	2.50	0.0430	-	< 0.00005	< 0.0001	0.000700	< 0.00005	0.000330	0.00300
	WQ5	Surface		9/18/2012	< 0.00005	2.70	0.0478	-	< 0.00005	< 0.0001	0.000800	< 0.00005	0.000270	0.00160
	WQ5	Surface		10/15/2012	< 0.00005	3.30	0.0556	-	< 0.00005	< 0.0001	0.000700	< 0.00005	0.000230	0.00250
	WQ5	Surface		11/13/2012	< 0.00005	2.70	0.0435	-	< 0.00005	< 0.0001	0.000900	< 0.00005	< 0.00005	0.00180
	WQ5	Surface		1/13/2013	< 0.00005	3.50	0.0671	-	< 0.00005	< 0.0001	0.00120	0.0000500	0.0000900	0.0126
	WQ5	Surface		4/15/2013	< 0.00005	2.50	0.0398	-	< 0.00005	< 0.0001	0.00270	0.0000600	< 0.00005	0.00200
	WQ5	Surface		5/13/2013	< 0.00005	1.30	0.0196	-	< 0.00005	< 0.0001	0.00190	0.0000800	< 0.00005	0.00230
	WQ5	Surface		5/22/2013	< 0.00005	1.60	0.0222	-	< 0.00005	< 0.0001	0.00170	0.0000600	< 0.00005	0.00140
	WQ5	Surface		5/27/2013	< 0.00005	1.80	< 0.000005	-	< 0.00005	< 0.0001	0.00200	0.0000800	< 0.00005	< 0.0005
	WQ5	Surface		6/6/2013	< 0.00005	1.70	0.0223	-	< 0.00005	< 0.0001	0.00160	0.0000900	< 0.00005	0.000800
	WQ5	Surface		6/10/2013	< 0.00005	1.70	0.0248	-	< 0.00005	< 0.0001	0.00140	0.0000800	< 0.00005	0.000900
	WQ5	Surface		6/17/2013	< 0.00005	< 0.5	0.0244	-	< 0.00005	< 0.0001	0.00180	0.0000700	< 0.00005	0.00130
	WQ5	Surface		4/13/2014	<0.00005	2.70	0.0448	-	<0.00005	<0.0001	0.00140	0.0000500	<0.00005	0.00320
	WQ5	Surface		7/2/2014	<0.00005	2.20	0.0335	-	<0.00005	<0.0001	0.000900	0.0000500	0.000130	0.00190
	WQ5	Surface		9/24/2014	<0.00005	3.90	0.0847	-	<0.00005	<0.0001	0.000700	0.0000600	0.000190	0.00300
	WQ5	Surface		12/8/2014	<0.00005	3.00	0.0588	-	<0.00005	<0.0001	0.000900	<0.00005	<0.00005	<0.0005
L1812856-8	WQ5	Surface		8/10/2016	<0.000010	2.30	0.0376	-	<0.000010	<0.00010	<0.010	0.0000580	<0.00050	<0.0030
L1815654-8	WQ5	Surface	Dup	8/16/2016	<0.000010	2.60	0.0421	-	<0.000010	<0.00010	<0.010	0.0000550	0.000510	<0.0030
L1815654-6	WQ5	Surface		8/16/2016	<0.000010	2.60	0.0423	-	<0.000010	<0.00010	<0.010	0.0000550	0.000530	<0.0030
L1819041-9	WQ5	Surface		8/23/2016	<0.000010	2.60	0.0441	-	<0.000010	<0.00010	<0.010	0.0000520	0.000500	<0.0030
L1823224-1	WQ5	Surface	Dup	8/31/2016	<0.000010	2.40	0.0375	-	<0.000010	<0.00010	<0.010	0.0000550	<0.00050	<0.0030
L1823224-8	WQ5	Surface		8/31/2016	<0.000010	2.30	0.0383	-	<0.000010	<0.00010	<0.010	0.0000500	<0.00050	<0.0030
L1826303-4	WQ5	Surface		9/7/2016	<0.000010	2.10	0.0319	-	<0.000010	<0.00010	<0.010	0.0000450	<0.00050	<0.0030
L1925486-4	WQ5	Surface		5/10/2017	<0.000010	<2.0	0.0351	-	<0.000010	<0.00010	<0.010	0.0000940	0.000800	<0.0030
L1962414-2	WQ5	Surface		7/19/2017	<0.000010	2.50	0.0397	-	<0.000010	<0.00010	<0.010	0.0000510	<0.00050	<0.0030
L1988190-2	WQ5	Surface		9/6/2017	<0.000010	3.30	0.0566	0.510	<0.000010	<0.00010	<0.010	0.000114	0.00168	0.00390
L2010514-2	WQ5	Surface		10/18/2017	<0.000010	2.00	0.0260	<0.50	<0.000010	<0.00010	<0.010	0.0000440	<0.00050	<0.0030
L2060442-2	WQ5	Surface		2/23/2018	<0.000010	3.20	0.0634	<0.50	<0.000010	<0.00010	<0.010	0.0000570	0.000560	0.00360
L2103632-2	WQ5	Surface		5/29/2018	<0.000010	2.00	0.0354	<0.50	<0.000010	<0.00010	<0.010	0.0000970	0.00109	0.00510
L2143640-1	WQ5	Surface		8/7/2018	<0.000010	3.10	0.0658	<0.50	<0.000010	<0.00010	<0.010	0.000101	0.00114	0.00190
L2204508-1	WQ5	Surface		11/29/2018	<0.000010	2.40	0.0491	<0.50	<0.000010	<0.00010	<0.010	0.0000620	0.000750	0.00210
L2232772-2	WQ5	Surface		2/12/2019	<0.000010	3.30	0.0635	0.720	<0.000010	<0.00010	<0.010	0.0000780	0.000750	0.00160
L2273497-3	WQ5	Surface		5/13/2019	<0.000010	<2.0	0.0257	<0.50	<0.000010	<0.00010	<0.010	0.0000800	0.000640	0.00370
L2328474-2	WQ5	Surface		8/12/2019	<0.000010	2.20	0.0376	<0.50	<0.000010	<0.00010	<0.010	0.0000830	0.000720	0.00340

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LabID	Site	Depth	QAQC	Date	Total Metals									
					Silver (Ag)-Dissolved	Sodium (Na)-Dissolved	Strontium (Sr)-Dissolved	Sulfur (S)-Dissolved	Thallium (Tl)-Dissolved	Tin (Sn)-Dissolved	Titanium (Ti)-Dissolved	Uranium (U)-Dissolved	Vanadium (V)-Dissolved	Zinc (Zn)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2385426-2	WQ5	Surface		11/18/2019	<0.000010	<2.0	0.0278	0.610	<0.000010	<0.00010	<0.010	0.0000800	0.000540	0.00530
VA20A1830-001	WQ5	Surface		2/12/2020	<0.000010	2.78	0.0559	<0.50	<0.000010	<0.00010	0.000610	0.0000800	0.000700	0.00360
VA20A6574-002	WQ5	Surface		5/14/2020	<0.000010	1.55	0.0221	<0.50	<0.000010	<0.00010	0.00156	0.0000790	0.000540	0.00360
VA20B2692-001	WQ5	Surface		8/12/2020	<0.000010	3.38	0.0718	<0.50	<0.000010	<0.00010	0.000470	0.0000940	0.00112	0.00210
VA20C1166-002	WQ5	Surface		11/17/2020	<0.000010	2.56	0.0454	<0.50	<0.000010	<0.00010	0.00162	0.0000910	0.000970	0.00470
	WQ6	Surface		5/17/2011	< 0.00005	1.50	0.0339	-	< 0.00005	< 0.0001	0.00300	0.000260	0.000290	0.00250
	WQ6	Surface		5/24/2011	< 0.00005	1.20	0.0263	-	< 0.00005	< 0.0001	0.00270	0.000220	< 0.00005	0.00420
	WQ6	Surface		5/30/2011	< 0.00005	1.20	0.0225	-	< 0.00005	< 0.0001	0.00180	0.000210	< 0.00005	0.00490
	WQ6	Surface		6/6/2011	< 0.00005	1.30	0.0238	-	< 0.00005	< 0.0001	0.00120	0.000200	< 0.00005	0.00160
	WQ6	Surface		6/13/2011	< 0.00005	1.40	0.0249	-	< 0.00005	< 0.0001	0.000900	0.000220	0.0000800	0.00170
	WQ6	Surface		7/18/2011	< 0.00005	1.60	0.0309	-	< 0.00005	< 0.0001	0.00110	0.000220	0.000140	0.00170
	WQ6	Surface	Dup	8/15/2011	< 0.00005	1.90	0.0378	-	< 0.00005	< 0.0001	0.000500	0.000130	0.0000800	0.000600
	WQ6	Surface		8/15/2011	< 0.00005	1.90	0.0371	-	< 0.00005	< 0.0001	0.000700	0.000140	0.0000900	0.00100
	WQ6	Surface		9/19/2011	< 0.00005	2.20	0.0464	-	< 0.00005	< 0.0001	0.000400	0.0000800	< 0.00005	< 0.0005
	WQ6	Surface		10/17/2011	< 0.00005	2.10	0.0412	-	< 0.00005	< 0.0001	0.000600	0.000110	< 0.00005	< 0.0005
	WQ6	Surface		11/14/2011	< 0.00005	2.10	0.0449	-	< 0.00005	< 0.0001	0.000500	0.0000900	0.0000600	0.00180
	WQ6	Surface		4/17/2012	< 0.00005	2.50	0.0512	-	< 0.00005	< 0.0001	0.00110	0.0000800	< 0.00005	0.00230
	WQ6	Surface		5/15/2012	< 0.00005	1.50	0.0307	-	< 0.00005	< 0.0001	0.00250	0.000150	0.000120	0.00310
	WQ6	Surface		5/23/2012	< 0.00005	1.50	0.0301	-	< 0.00005	< 0.0001	0.00250	0.000140	0.000170	0.00280
	WQ6	Surface		5/28/2012	< 0.00005	1.60	0.0289	-	< 0.00005	< 0.0001	0.00160	0.000180	< 0.00005	0.00230
	WQ6	Surface		6/4/2012	< 0.00005	1.60	0.0280	-	< 0.00005	< 0.0001	0.000800	0.000180	< 0.00005	< 0.0005
	WQ6	Surface		6/11/2012	< 0.00005	1.60	0.0272	-	< 0.00005	< 0.0001	0.00100	0.000210	< 0.00005	0.00160
	WQ6	Surface		6/18/2012	< 0.00005	1.60	0.0267	-	< 0.00005	< 0.0001	0.000700	0.000220	0.000180	0.00250
	WQ6	Surface		7/16/2012	< 0.00005	2.00	0.0377	-	< 0.00005	< 0.0001	0.000700	0.000120	0.000100	0.00110
	WQ6	Surface		8/13/2012	< 0.00005	2.20	0.0468	-	< 0.00005	< 0.0001	0.000900	0.000100	0.000130	0.00360
	WQ6	Surface		9/17/2012	< 0.00005	2.30	0.0488	-	< 0.00005	< 0.0001	0.000600	0.0000800	< 0.00005	0.000700
	WQ6	Surface		10/16/2012	< 0.00005	2.60	0.0484	-	< 0.00005	< 0.0001	0.000700	0.0000800	< 0.00005	0.00240
	WQ6	Surface		11/12/2012	< 0.00005	2.50	0.0471	-	< 0.00005	< 0.0001	0.000900	0.0000800	< 0.00005	0.00140
	WQ6	Surface		12/10/2012	< 0.00005	2.80	0.0519	-	< 0.00005	< 0.0001	0.000400	0.0000600	< 0.00005	0.00210
	WQ6	Surface		1/15/2013	< 0.00005	2.70	0.0498	-	< 0.00005	< 0.0001	0.000700	0.0000800	< 0.00005	0.00300
	WQ6	Surface		2/13/2013	< 0.00005	2.60	0.0514	-	< 0.00005	< 0.0001	0.000400	< 0.00005	< 0.00005	0.00240
	WQ6	Surface		3/12/2013	< 0.00005	2.90	0.0560	-	< 0.00005	< 0.0001	0.000400	0.0000700	< 0.00005	0.00220
	WQ6	Surface		4/16/2013	< 0.00005	2.20	0.0477	-	< 0.00005	< 0.0001	0.00130	0.0000800	< 0.00005	0.00120
	WQ6	Surface		5/14/2013	< 0.00005	1.40	0.0281	-	< 0.00005	< 0.0001	0.00240	0.000220	< 0.00005	0.00250
	WQ6	Surface		5/21/2013	< 0.00005	1.60	0.0294	-	< 0.00005	< 0.0001	0.00130	0.000190	< 0.00005	0.00110
	WQ6	Surface		5/28/2013	< 0.00005	1.70	0.00733	-	< 0.00005	< 0.0001	0.00180	0.000220	< 0.00005	< 0.0005
	WQ6	Surface		6/4/2013	< 0.00005	1.60	0.0299	-	< 0.00005	< 0.0001	0.00170	0.000220	< 0.00005	0.0221
	WQ6	Surface		6/11/2013	< 0.00005	1.60	0.0309	-	< 0.00005	< 0.0001	0.00100	0.000210	< 0.00005	0.000700
	WQ6	Surface		6/18/2013	< 0.00005	< 0.5	0.0298	-	< 0.00005	< 0.0001	0.00180	0.000190	< 0.00005	0.00190
	WQ7	Surface		4/19/2011	< 0.00005	3.90	0.100	-	< 0.00005	< 0.0001	0.000400	0.000280	< 0.00005	0.00180
	WQ7	Surface		5/17/2011	< 0.00005	1.80	0.0333	-	< 0.00005	< 0.0001	0.00250	0.000100	0.000620	0.00490
	WQ7	Surface		5/24/2011	< 0.00005	1.60	0.0330	-	< 0.00005	< 0.0001	0.00270	0.000150	0.000240	0.00570
	WQ7	Surface		5/30/2011	< 0.00005	1.60	0.0298	-	< 0.00005	< 0.0001	0.00240	0.000140	0.000380	0.00560
	WQ7	Surface		6/6/2011	< 0.00005	1.50	0.0273	-	< 0.00005	< 0.0001	0.00180	0.000160	0.000320	0.00160

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals									
					Silver (Ag)-Dissolved	Sodium (Na)-Dissolved	Strontium (Sr)-Dissolved	Sulfur (S)-Dissolved	Thallium (Tl)-Dissolved	Tin (Sn)-Dissolved	Titanium (Ti)-Dissolved	Uranium (U)-Dissolved	Vanadium (V)-Dissolved	Zinc (Zn)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
WQ7	Surface			6/13/2011	< 0.00005	1.60	0.0314	-	< 0.00005	< 0.0001	0.00110	0.000160	0.000360	0.00140
WQ7	Surface			7/18/2011	< 0.00005	2.10	0.0477	-	< 0.00005	< 0.0001	0.00100	0.000150	0.000440	0.00380
WQ7	Surface			8/15/2011	< 0.00005	2.70	0.0662	-	< 0.00005	< 0.0001	0.000500	0.000110	0.000400	0.000700
WQ7	Surface		Dup	9/19/2011	< 0.00005	3.20	0.0902	-	< 0.00005	< 0.0001	< 0.0002	0.000150	0.000800	< 0.0005
WQ7	Surface			9/19/2011	< 0.00005	3.20	0.0883	-	< 0.00005	< 0.0001	0.000400	0.000140	0.000170	0.00140
WQ7	Surface		Dup	10/17/2011	< 0.00005	3.00	0.0717	-	< 0.00005	< 0.0001	0.000200	0.000110	0.000200	< 0.0005
WQ7	Surface			10/17/2011	< 0.00005	2.90	0.0713	-	< 0.00005	< 0.0001	0.000300	0.000110	0.000200	< 0.0005
WQ7	Surface			11/14/2011	< 0.00005	3.10	0.0768	-	< 0.00005	< 0.0001	0.000200	0.000130	0.000260	0.00150
WQ7	Surface		Dup	12/13/2011	< 0.00005	3.30	0.0880	-	< 0.00005	< 0.0001	< 0.0002	0.000150	0.000190	0.00560
WQ7	Surface			12/13/2011	< 0.00005	3.30	0.0901	-	< 0.00005	< 0.0001	0.000200	0.000150	0.000180	0.00900
WQ7	Surface			1/12/2012	< 0.00005	3.30	0.0957	-	< 0.00005	< 0.0001	< 0.0002	0.000180	0.000200	0.00150
WQ7	Surface		Dup	2/13/2012	< 0.00005	3.40	0.0972	-	< 0.00005	< 0.0001	< 0.0002	0.000220	< 0.00005	0.0111
WQ7	Surface			2/13/2012	< 0.00005	3.50	0.0984	-	< 0.00005	< 0.0001	< 0.0002	0.000220	< 0.00005	0.0276
WQ7	Surface			3/12/2012	< 0.00005	3.40	0.0889	-	< 0.00005	< 0.0001	< 0.0002	0.000240	< 0.00005	0.00590
WQ7	Surface		Dup	4/17/2012	< 0.00005	3.20	0.0739	-	< 0.00005	< 0.0001	0.000600	0.000240	0.000130	< 0.0005
WQ7	Surface			4/17/2012	< 0.00005	3.10	0.0800	-	< 0.00005	< 0.0001	0.000500	0.000150	0.000130	< 0.0005
WQ7	Surface			5/15/2012	< 0.00005	2.00	0.0356	-	< 0.00005	< 0.0001	0.00190	0.000100	0.000430	0.00380
WQ7	Surface			5/23/2012	< 0.00005	2.00	0.0375	-	< 0.00005	< 0.0001	0.00250	0.000110	0.000440	0.00760
WQ7	Surface		Dup	5/28/2012	< 0.00005	1.80	0.0338	-	< 0.00005	< 0.0001	0.00120	0.000130	0.000250	< 0.0005
WQ7	Surface			5/28/2012	< 0.00005	1.80	0.0344	-	< 0.00005	< 0.0001	0.00190	0.000140	0.000270	0.00120
WQ7	Surface			6/4/2012	< 0.00005	1.90	0.0356	-	< 0.00005	< 0.0001	0.00130	0.000120	< 0.00005	< 0.0005
WQ7	Surface			6/11/2012	< 0.00005	1.80	0.0346	-	< 0.00005	< 0.0001	0.00190	0.000130	0.000260	0.00160
WQ7	Surface			6/18/2012	< 0.00005	107	0.0467	-	< 0.00005	0.00140	0.00210	0.000120	0.000500	0.133
WQ7	Surface		Dup	7/16/2012	< 0.00005	2.70	0.0640	-	< 0.00005	< 0.0001	0.000400	0.000800	0.000410	0.000700
WQ7	Surface			7/16/2012	< 0.00005	2.70	0.0645	-	< 0.00005	< 0.0001	0.000300	0.000900	0.000430	< 0.0005
WQ7	Surface		Dup	8/13/2012	< 0.00005	3.20	0.0807	-	< 0.00005	< 0.0001	0.000400	0.000110	0.000580	< 0.0005
WQ7	Surface			8/13/2012	< 0.00005	3.20	0.0804	-	< 0.00005	< 0.0001	0.000400	0.000100	0.000570	0.00250
WQ7	Surface			9/17/2012	< 0.00005	3.30	0.0908	-	< 0.00005	< 0.0001	0.000300	0.000160	0.000340	< 0.0005
WQ7	Surface			10/16/2012	< 0.00005	3.80	0.0939	-	< 0.00005	< 0.0001	< 0.0002	0.000180	0.000220	0.00220
WQ7	Surface		Dup	11/12/2012	< 0.00005	3.70	0.0865	-	< 0.00005	< 0.0001	0.000300	0.000160	< 0.00005	< 0.0005
WQ7	Surface			11/12/2012	< 0.00005	3.60	0.0841	-	< 0.00005	< 0.0001	0.000300	0.000160	< 0.00005	0.00120
WQ7	Surface			12/10/2012	< 0.00005	3.90	0.0975	-	< 0.00005	< 0.0001	< 0.0002	0.000190	< 0.00005	0.00170
WQ7	Surface		Dup	1/15/2013	< 0.00005	4.00	0.107	-	< 0.00005	< 0.0001	0.000200	0.000260	< 0.00005	0.00710
WQ7	Surface			1/15/2013	< 0.00005	4.00	0.106	-	< 0.00005	< 0.0001	0.000200	0.000270	< 0.00005	0.0131
WQ7	Surface		Dup	2/13/2013	< 0.00005	4.00	0.0989	-	< 0.00005	< 0.0001	< 0.0002	0.000210	< 0.00005	0.00740
WQ7	Surface			2/13/2013	< 0.00005	4.00	0.0992	-	< 0.00005	< 0.0001	< 0.0002	0.000210	< 0.00005	0.0178
WQ7	Surface			3/12/2013	< 0.00005	4.20	0.110	-	< 0.00005	< 0.0001	< 0.0002	0.000280	< 0.00005	0.00280
WQ7	Surface		Dup	4/16/2013	< 0.00005	3.40	0.0886	-	< 0.00005	< 0.0001	0.000600	0.000170	< 0.00005	< 0.0005
WQ7	Surface			4/16/2013	< 0.00005	3.60	0.0887	-	< 0.00005	< 0.0001	0.000600	0.000170	< 0.00005	0.000700
WQ7	Surface			5/14/2013	< 0.00005	1.60	0.0336	-	< 0.00005	< 0.0001	0.00270	0.000150	< 0.00005	0.00230
WQ7	Surface			5/21/2013	< 0.00005	1.90	0.0382	-	< 0.00005	< 0.0001	0.00140	0.000120	< 0.00005	0.000800
WQ7	Surface			5/28/2013	< 0.00005	2.20	0.0176	-	< 0.00005	< 0.0001	0.00230	0.000120	< 0.00005	< 0.0005
WQ7	Surface		Dup	6/4/2013	< 0.00005	2.00	0.0394	-	< 0.00005	< 0.0001	0.00170	0.000140	< 0.00005	0.00270
WQ7	Surface			6/4/2013	< 0.00005	2.10	0.0388	-	< 0.00005	< 0.0001	0.00170	0.000140	< 0.00005	0.00170

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LabID	Site	Depth	QAQC	Date	Total Metals									
					Silver (Ag)-Dissolved	Sodium (Na)-Dissolved	Strontium (Sr)-Dissolved	Sulfur (S)-Dissolved	Thallium (Tl)-Dissolved	Tin (Sn)-Dissolved	Titanium (Ti)-Dissolved	Uranium (U)-Dissolved	Vanadium (V)-Dissolved	Zinc (Zn)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ7	Surface		6/11/2013	< 0.00005	2.10	0.0448	-	< 0.00005	< 0.0001	0.000900	0.000130	< 0.00005	< 0.0005
	WQ7	Surface	Dup	6/18/2013	< 0.00005	< 0.5	0.0466	-	< 0.00005	< 0.0001	0.00200	0.000110	< 0.00005	< 0.0005
	WQ7	Surface		6/18/2013	< 0.00005	< 0.5	0.0459	-	< 0.00005	< 0.0001	0.00160	0.000100	< 0.00005	0.00180
	WQ7	Surface		4/13/2014	< 0.00005	3.10	0.0780	-	< 0.00005	< 0.0001	0.000600	0.000180	< 0.00005	0.0254
	WQ7	Surface		7/2/2014	< 0.00005	2.80	0.0648	-	< 0.00005	< 0.0001	0.000400	0.0000900	0.000250	0.00300
	WQ7	Surface		9/24/2014	< 0.00005	4.10	0.110	-	< 0.00005	< 0.0001	0.000300	0.000240	0.000250	0.00230
	WQ7	Surface		12/9/2014	< 0.00005	3.80	0.0968	-	< 0.00005	< 0.0001	0.000200	0.000210	0.000100	0.000900
L1812856-9	WQ7	Surface		8/10/2016	< 0.000010	2.90	0.0691	-	< 0.000010	< 0.00010	< 0.010	0.000110	0.000680	< 0.0030
L1815654-9	WQ7	Surface		8/16/2016	< 0.000010	3.20	0.0766	-	< 0.000010	< 0.00010	< 0.010	0.000116	0.000620	< 0.0030
L1819041-2	WQ7	Surface		8/23/2016	< 0.000010	3.30	0.0750	-	< 0.000010	< 0.00010	< 0.010	0.000105	0.000630	< 0.0030
L1823224-2	WQ7	Surface		8/31/2016	< 0.000010	3.40	0.0788	-	< 0.000010	< 0.00010	< 0.010	0.000107	0.000590	0.00380
L1826303-7	WQ7	Surface		9/7/2016	< 0.000010	2.60	0.0710	-	< 0.000010	< 0.00010	< 0.010	0.000110	< 0.00050	< 0.0030
L1913531-3	WQ7	Surface		4/12/2017	< 0.000010	3.50	0.0910	-	< 0.000010	< 0.00010	< 0.010	0.000196	< 0.00050	< 0.0030
L1926080-8	WQ7	Surface	Dup	5/11/2017	< 0.000010	< 2.0	0.0401	-	< 0.000010	< 0.00010	< 0.010	0.000107	0.000500	< 0.0030
L1926080-4	WQ7	Surface		5/11/2017	< 0.000010	2.10	0.0414	-	< 0.000010	< 0.00010	< 0.010	0.000112	0.000540	< 0.0030
L1939712-7	WQ7	Surface		6/7/2017	< 0.000010	< 2.0	0.0391	-	< 0.000010	< 0.00010	< 0.010	0.000142	< 0.00050	< 0.0030
L1962414-3	WQ7	Surface		7/19/2017	< 0.000010	2.90	0.0709	-	< 0.000010	< 0.00010	< 0.010	0.000101	0.000510	< 0.0030
L1984944-5	WQ7	Surface		8/30/2017	< 0.000010	3.70	0.0987	0.580	< 0.000010	< 0.00010	< 0.010	0.000126	< 0.00050	< 0.0030
L1988832-4	WQ7	Surface		9/9/2017	< 0.000010	3.70	0.0999	0.720	< 0.000010	< 0.00010	< 0.010	0.000122	< 0.00050	< 0.0030
L2009845-2	WQ7	Surface		10/17/2017	< 0.000010	2.90	0.0669	0.860	< 0.000010	< 0.00010	< 0.010	0.0000830	< 0.00050	< 0.0030
L2020333-6	WQ7	Surface	Dup	11/7/2017	< 0.000010	2.60	0.0626	0.760	< 0.000010	< 0.00010	< 0.010	0.0000960	< 0.00050	< 0.0030
L2020333-2	WQ7	Surface		11/7/2017	< 0.000010	2.70	0.0631	0.780	< 0.000010	< 0.00010	< 0.010	0.0000970	< 0.00050	< 0.0030
L2034610-2	WQ7	Surface		12/11/2017	< 0.000010	3.00	0.0705	0.640	< 0.000010	< 0.00010	< 0.010	0.000106	< 0.00050	< 0.0030
L2049678-1	WQ7	Surface		1/24/2018	< 0.000010	3.40	0.0902	< 0.50	< 0.000010	< 0.00010	< 0.010	0.000156	< 0.00050	< 0.0030
L2062480-2	WQ7	Surface		2/28/2018	< 0.000010	3.80	0.0958	0.860	< 0.000010	< 0.00010	< 0.010	0.000185	< 0.00050	< 0.0030
L2074294-1	WQ7	Surface		3/28/2018	< 0.000010	3.10	0.0871	0.900	< 0.000010	< 0.00010	< 0.010	0.000190	< 0.00050	< 0.0030
L2081503-1	WQ7	Surface		4/17/2018	< 0.000010	3.70	0.0981	0.660	< 0.000010	< 0.00010	< 0.010	0.000225	< 0.00050	< 0.0030
L2097084-8	WQ7	Surface	Dup	5/16/2018	< 0.000010	< 2.0	0.0242	< 0.50	< 0.000010	< 0.00010	< 0.010	0.000159	< 0.00050	< 0.0030
L2097084-1	WQ7	Surface		5/16/2018	< 0.000010	< 2.0	0.0239	< 0.50	< 0.000010	< 0.00010	< 0.010	0.000157	< 0.00050	< 0.0030
L2104479-1	WQ7	Surface		5/30/2018	< 0.000010	2.00	0.0386	< 0.50	< 0.000010	< 0.00010	< 0.010	0.000136	0.000530	< 0.0030
L2132128-7	WQ7	Surface	Dup	7/17/2018	< 0.000010	3.00	0.0701	0.710	< 0.000010	< 0.00010	< 0.010	0.000104	0.000720	0.00150
L2132128-1	WQ7	Surface		7/17/2018	< 0.000010	2.90	0.0762	< 0.50	< 0.000010	< 0.00010	< 0.010	0.000115	0.000660	< 0.0010
L2144782-2	WQ7	Surface		8/9/2018	< 0.000010	3.30	0.0815	< 0.50	< 0.000010	< 0.00010	< 0.010	0.000118	0.000730	< 0.0010
L2164448-4	WQ7	Surface	Dup	9/12/2018	< 0.000010	3.70	0.0927	0.510	< 0.000010	< 0.00010	< 0.010	0.000174	0.000630	< 0.0010
L2164448-3	WQ7	Surface		9/12/2018	< 0.000010	3.60	0.0916	0.610	< 0.000010	< 0.00010	< 0.010	0.000172	0.000610	< 0.0010
L2187638-4	WQ7	Surface	Dup	10/24/2018	< 0.000010	2.90	0.0715	0.890	< 0.000010	< 0.00010	< 0.010	0.000107	< 0.00050	< 0.0010
L2187638-3	WQ7	Surface		10/24/2018	< 0.000010	2.90	0.0715	0.840	< 0.000010	< 0.00010	< 0.010	0.000103	< 0.00050	< 0.0010
L2203408-2	WQ7	Surface		11/27/2018	< 0.000010	2.80	0.0561	0.540	< 0.000010	< 0.00010	< 0.010	0.000102	< 0.00050	< 0.0010
L2213684-1	WQ7	Surface		12/19/2018	< 0.000010	3.20	0.0705	0.740	< 0.000010	< 0.00010	< 0.010	0.000121	< 0.00050	< 0.0010
L2227101-6	WQ7	Surface	Dup	1/29/2019	< 0.000010	3.60	0.0852	< 0.50	< 0.000010	< 0.00010	< 0.010	0.000145	< 0.00050	< 0.0010
L2227101-1	WQ7	Surface		1/29/2019	< 0.000010	3.50	0.0839	0.590	< 0.000010	< 0.00010	< 0.010	0.000145	< 0.00050	< 0.0010
L2232050-4	WQ7	Surface		2/11/2019	< 0.000010	3.50	0.0866	1.04	< 0.000010	< 0.00010	< 0.010	0.000174	< 0.00050	< 0.0010
L2245144-4	WQ7	Surface		3/14/2019	< 0.000010	3.80	0.103	1.11	< 0.000010	< 0.00010	< 0.010	0.000257	< 0.00050	< 0.0010
L2256054-1	WQ7	Surface		4/9/2019	< 0.000010	3.20	0.0805	0.900	< 0.000010	< 0.00010	< 0.010	0.000146	< 0.00050	< 0.0010

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LabID	Site	Depth	QAQC	Date	Total Metals									
					Silver (Ag)-Dissolved	Sodium (Na)-Dissolved	Strontium (Sr)-Dissolved	Sulfur (S)-Dissolved	Thallium (Tl)-Dissolved	Tin (Sn)-Dissolved	Titanium (Ti)-Dissolved	Uranium (U)-Dissolved	Vanadium (V)-Dissolved	Zinc (Zn)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2269368-6	WQ7	Surface	Dup	5/4/2019	<0.000010	2.40	0.0410	0.570	<0.000010	<0.00010	<0.010	0.000123	0.000570	0.00110
L2269368-1	WQ7	Surface		5/4/2019	<0.000010	2.40	0.0418	0.560	<0.000010	<0.00010	<0.010	0.000113	0.000550	<0.0010
L2277964-4	WQ7	Surface		5/21/2019	<0.000010	<2.0	0.0309	<0.50	<0.000010	<0.00010	<0.010	0.000165	0.000720	<0.0010
L2282191-2	WQ7	Surface		5/28/2019	<0.000010	2.00	0.0451	<0.50	<0.000010	<0.00010	<0.010	0.000142	0.000500	<0.0010
L2282975-1	WQ7	Surface		5/29/2019	<0.000010	2.30	0.0447	<0.50	<0.000010	<0.00010	<0.010	0.000144	0.000540	<0.0010
L2286702-5	WQ7	Surface	Dup	6/4/2019	<0.000010	2.20	0.0443	<0.50	<0.000010	<0.00010	<0.010	0.000118	0.000600	<0.0010
L2286702-1	WQ7	Surface		6/4/2019	<0.000010	2.20	0.0455	<0.50	<0.000010	<0.00010	<0.010	0.000115	0.000570	<0.0010
L2313851-2	WQ7	Surface		7/18/2019	<0.000010	2.10	0.0459	<0.50	<0.000010	<0.00010	<0.010	0.000132	<0.00050	<0.0010
L2328474-3	WQ7	Surface		8/12/2019	<0.000010	2.30	0.0535	<0.50	<0.000010	<0.00010	<0.010	0.000122	0.000570	<0.0010
L2349445-1	WQ7	Surface		9/16/2019	<0.000010	3.00	0.0739	0.680	<0.000010	<0.00010	<0.010	0.000103	<0.00050	<0.0010
L2371052-1	WQ7	Surface		10/22/2019	<0.000010	2.70	0.0543	<0.50	<0.000010	<0.00010	<0.010	0.0000980	<0.00050	<0.0010
L2388381-1	WQ7	Surface		11/25/2019	<0.000010	2.20	0.0450	<0.50	<0.000010	<0.00010	<0.010	0.000122	<0.00050	<0.0010
VA19A0791-001	WQ7	Surface		12/17/2019	<0.000010	2.70	0.0603	0.600	<0.000010	<0.00010	0.000540	0.000121	<0.00050	<0.0010
VA20A0960-001	WQ7	Surface		1/27/2020	<0.000010	3.22	0.0811	0.540	<0.000010	<0.00010	<0.00030	0.000156	<0.00050	<0.0010
VA20A2126-004	WQ7	Surface		2/19/2020	<0.000010	3.26	0.0833	0.560	<0.000010	<0.00010	<0.00030	0.000170	<0.00050	<0.0010
VA20A3691-002	WQ7	Surface		3/18/2020	<0.000010	3.75	0.0886	<0.50	<0.000010	<0.00010	<0.00030	0.000193	<0.00050	<0.0010
VA20A4555-002	WQ7	Surface		4/7/2020	<0.000010	3.41	0.0967	0.800	<0.000010	<0.00010	<0.00030	0.000205	<0.00050	<0.0010
VA20A6218-002	WQ7	Surface		5/7/2020	<0.000010	2.01	0.0417	<0.50	<0.000010	<0.00010	0.00172	0.000101	<0.00050	<0.0010
VA20A6503-003	WQ7	Surface		5/13/2020	<0.000010	1.75	0.0372	<0.50	<0.000010	<0.00010	0.00170	0.000112	<0.00050	0.00200
VA20A6869-001	WQ7	Surface		5/20/2020	<0.000010	1.72	0.0345	<0.50	<0.000010	<0.00010	0.00140	0.000164	<0.00050	<0.0010
VA20A7367-001	WQ7	Surface		5/28/2020	<0.000010	1.73	0.0348	<0.50	<0.000010	<0.00010	0.000880	0.000145	0.000580	<0.0010
VA20A7672-004	WQ7	Surface		6/2/2020	<0.000010	1.83	0.0376	<0.50	<0.000010	<0.00010	0.000770	0.000141	<0.00050	<0.0010
VA20A9918-005	WQ7	Surface	Dup	7/6/2020	<0.000010	2.53	0.0546	<0.50	<0.000010	<0.00010	0.000610	0.000123	0.000540	0.00130
VA20A9918-001	WQ7	Surface		7/6/2020	<0.000010	2.55	0.0526	<0.50	<0.000010	<0.00010	0.000700	0.000127	0.000540	<0.0010
VA20B2156-004	WQ7	Surface		8/5/2020	<0.000010	3.00	0.0759	0.500	<0.000010	<0.00010	<0.00030	0.000119	0.000600	<0.0010
VA20B2542-005	WQ7	Surface	Dup	8/11/2020	<0.000010	3.10	0.0714	<0.50	<0.000010	<0.00010	<0.00030	0.000130	0.000520	<0.0010
VA20B2542-003	WQ7	Surface		8/11/2020	<0.000010	3.09	0.0732	<0.50	<0.000010	<0.00010	<0.00030	0.000132	0.000510	<0.0010
VA20B3218-001	WQ7	Surface		8/18/2020	<0.000010	3.00	0.0748	<0.50	<0.000010	<0.00010	<0.00030	0.000116	0.000520	<0.0010
VA20B3609-002	WQ7	Surface		8/24/2020	<0.000010	2.81	0.0709	<0.50	<0.000010	<0.00010	0.000380	0.000126	0.000510	<0.0010
VA20B4443-003	WQ7	Surface		9/2/2020	<0.000010	3.24	0.0787	<0.50	<0.000010	<0.00010	<0.00030	0.000118	<0.00050	<0.0010
VA20B7624-001	WQ7	Surface		10/6/2020	<0.000010	3.34	0.0867	0.520	<0.000010	<0.00010	<0.00030	0.000121	<0.00050	<0.0010
VA20C0298-001	WQ7	Surface		11/5/2020	<0.000010	1.99	0.0429	<0.50	<0.000010	<0.00010	0.00346	0.000134	0.000540	<0.0010
	WQ8	Surface		4/19/2011	< 0.00005	3.50	0.103	-	< 0.00005	< 0.0001	0.000200	0.000100	< 0.00005	0.00300
	WQ8	Surface		5/17/2011	< 0.00005	3.30	0.0895	-	< 0.00005	< 0.0001	< 0.0002	0.0000700	0.000160	0.00180
	WQ8	Surface	Dup	5/24/2011	< 0.00005	3.20	0.0919	-	< 0.00005	< 0.0001	0.000300	0.0000800	< 0.00005	< 0.0005
	WQ8	Surface		5/24/2011	< 0.00005	3.20	0.0919	-	< 0.00005	< 0.0001	0.000300	0.0000800	< 0.00005	0.00460
	WQ8	Surface		5/30/2011	< 0.00005	3.90	0.0753	-	< 0.00005	< 0.0001	0.000300	< 0.00005	< 0.00005	0.00580
	WQ8	Surface		6/6/2011	< 0.00005	3.20	0.0901	-	< 0.00005	< 0.0001	0.000400	0.0000800	0.0000900	0.00470
	WQ8	Surface	Dup	6/13/2011	< 0.00005	3.00	0.0871	-	< 0.00005	< 0.0001	0.000500	0.0000800	0.000180	0.00110
	WQ8	Surface		6/13/2011	< 0.00005	3.00	0.0871	-	< 0.00005	< 0.0001	0.000500	0.0000800	0.000220	0.00120
	WQ8	Surface		7/18/2011	< 0.00005	3.00	0.0844	-	< 0.00005	< 0.0001	0.000300	0.0000800	0.000260	0.00120
	WQ8	Surface		8/15/2011	< 0.00005	3.20	0.0901	-	< 0.00005	< 0.0001	< 0.0002	0.0000900	0.000200	0.00350
	WQ8	Surface		9/19/2011	< 0.00005	3.10	0.0931	-	< 0.00005	< 0.0001	< 0.0002	0.0000700	< 0.00005	< 0.0005
	WQ8	Surface		10/17/2011	< 0.00005	3.40	0.0941	-	< 0.00005	< 0.0001	< 0.0002	0.0000800	0.000100	< 0.0005

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LabID	Site	Depth	QAQC	Date	Total Metals									
					Silver (Ag)-Dissolved	Sodium (Na)-Dissolved	Strontium (Sr)-Dissolved	Sulfur (S)-Dissolved	Thallium (Tl)-Dissolved	Tin (Sn)-Dissolved	Titanium (Ti)-Dissolved	Uranium (U)-Dissolved	Vanadium (V)-Dissolved	Zinc (Zn)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ8	Surface		11/14/2011	< 0.00005	3.30	0.0957	-	< 0.00005	< 0.0001	< 0.0002	0.0000900	0.000160	0.00140
	WQ8	Surface		12/12/2011	< 0.00005	3.50	0.102	-	< 0.00005	< 0.0001	< 0.0002	0.0000800	0.000120	< 0.0005
	WQ8	Surface		1/12/2012	< 0.00005	3.50	0.104	-	< 0.00005	< 0.0001	< 0.0002	0.0000800	0.000130	0.00140
	WQ8	Surface		2/13/2012	< 0.00005	3.70	0.107	-	< 0.00005	< 0.0001	< 0.0002	0.0000800	< 0.00005	< 0.0005
	WQ8	Surface		3/12/2012	< 0.00005	3.50	0.0934	-	< 0.00005	< 0.0001	< 0.0002	0.0000800	< 0.00005	0.000900
	WQ8	Surface		4/16/2012	< 0.00005	3.30	0.0890	-	< 0.00005	< 0.0001	< 0.0002	0.0000800	< 0.00005	< 0.0005
	WQ8	Surface		5/14/2012	< 0.00005	3.70	0.100	-	< 0.00005	< 0.0001	< 0.0002	0.000100	0.000160	0.00200
	WQ8	Surface		5/22/2012	< 0.00005	3.60	0.0951	-	< 0.00005	< 0.0001	0.000200	0.0000600	0.000110	0.00600
	WQ8	Surface		5/28/2012	< 0.00005	3.60	0.0965	-	< 0.00005	< 0.0001	0.000200	0.0000800	< 0.00005	0.00110
	WQ8	Surface		6/4/2012	< 0.00005	3.40	0.0931	-	< 0.00005	< 0.0001	< 0.0002	0.0000800	< 0.00005	< 0.0005
	WQ8	Surface		6/11/2012	< 0.00005	3.40	0.124	-	< 0.00005	< 0.0001	0.000200	0.000100	0.0000600	0.00100
	WQ8	Surface		6/18/2012	< 0.00005	3.40	0.0913	-	< 0.00005	< 0.0001	< 0.0002	0.000100	0.000240	0.00160
	WQ8	Surface		7/16/2012	< 0.00005	3.50	0.0957	-	< 0.00005	< 0.0001	< 0.0002	0.0000700	0.000210	< 0.0005
	WQ8	Surface		8/13/2012	< 0.00005	3.60	0.104	-	< 0.00005	< 0.0001	< 0.0002	0.0000800	0.000250	0.00380
	WQ8	Surface		9/17/2012	< 0.00005	3.40	0.0957	-	< 0.00005	< 0.0001	0.000300	0.000100	0.000430	< 0.0005
	WQ8	Surface		10/15/2012	< 0.00005	3.80	0.0959	-	< 0.00005	< 0.0001	< 0.0002	0.0000900	0.000200	0.00280
	WQ8	Surface		11/13/2012	< 0.00005	3.60	0.0895	-	< 0.00005	< 0.0001	< 0.0002	0.0000900	< 0.00005	0.000600
	WQ8	Surface		1/13/2013	< 0.00005	4.00	0.106	-	< 0.00005	< 0.0001	< 0.0002	0.000100	< 0.00005	0.00150
	WQ8	Surface		2/12/2013	< 0.00005	4.10	0.106	-	< 0.00005	< 0.0001	< 0.0002	0.0000700	< 0.00005	0.00300
	WQ8	Surface	Dup	3/11/2013	< 0.00005	4.10	0.105	-	< 0.00005	< 0.0001	< 0.0002	0.0000900	< 0.00005	0.00560
	WQ8	Surface		3/11/2013	< 0.00005	4.10	0.106	-	< 0.00005	< 0.0001	< 0.0002	0.0000900	< 0.00005	0.00200
	WQ8	Surface		4/15/2013	< 0.00005	2.60	0.0794	-	< 0.00005	< 0.0001	< 0.0002	0.0000800	< 0.00005	0.00150
	WQ8	Surface		5/13/2013	< 0.00005	3.30	0.101	-	< 0.00005	< 0.0001	0.000200	0.0000800	< 0.00005	0.00200
	WQ8	Surface		5/22/2013	< 0.00005	4.20	0.127	-	< 0.00005	< 0.0001	0.000600	0.0000600	< 0.00005	0.00420
	WQ8	Surface		5/27/2013	< 0.00005	3.90	0.0802	-	< 0.00005	< 0.0001	0.000300	0.0000800	< 0.00005	< 0.0005
	WQ8	Surface		6/6/2013	< 0.00005	3.50	0.0916	-	< 0.00005	< 0.0001	0.000200	0.0000900	< 0.00005	< 0.0005
	WQ8	Surface		6/10/2013	< 0.00005	3.30	0.0917	-	< 0.00005	< 0.0001	0.000400	0.0000900	< 0.00005	< 0.0005
	WQ8	Surface		6/17/2013	< 0.00005	0.800	0.0863	-	< 0.00005	< 0.0001	0.000400	0.0000800	< 0.00005	0.000900
	WQ8	Surface		4/13/2014	< 0.00005	3.00	0.0848	-	< 0.00005	< 0.0001	< 0.0002	0.0000800	< 0.00005	0.00490
	WQ8	Surface		7/2/2014	< 0.00005	3.40	0.0893	-	< 0.00005	< 0.0001	< 0.0002	0.0000800	< 0.00005	0.000900
	WQ8	Surface		9/24/2014	< 0.00005	3.60	0.0994	-	< 0.00005	< 0.0001	< 0.0002	0.0000900	< 0.00005	0.00250
	WQ8	Surface	Dup	12/9/2014	< 0.00005	3.90	0.101	-	< 0.00005	< 0.0001	< 0.0002	0.0000800	< 0.00005	0.00250
	WQ8	Surface		12/9/2014	< 0.00005	4.00	0.102	-	< 0.00005	< 0.0001	< 0.0002	0.0000800	< 0.00005	0.00250
L1913531-6	WQ8	Surface		4/12/2017	< 0.000010	3.20	0.0833	-	< 0.000010	< 0.00010	< 0.010	0.0000750	< 0.00050	< 0.0030
L1926080-3	WQ8	Surface		5/11/2017	< 0.000010	3.60	0.0973	-	< 0.000010	< 0.00010	< 0.010	0.0000760	< 0.00050	< 0.0030
L1939712-8	WQ8	Surface		6/7/2017	< 0.000010	3.60	0.0963	-	< 0.000010	< 0.00010	< 0.010	0.0000790	< 0.00050	< 0.0030
L1962414-4	WQ8	Surface		7/19/2017	< 0.000010	3.40	0.0898	-	< 0.000010	< 0.00010	< 0.010	0.0000870	< 0.00050	< 0.0030
L1984944-6	WQ8	Surface		8/30/2017	< 0.000010	3.40	0.0976	1.33	< 0.000010	< 0.00010	< 0.010	0.0000850	< 0.00050	< 0.0030
L1987355-1	WQ8	Surface		9/5/2017	< 0.000010	3.50	0.0877	1.11	< 0.000010	< 0.00010	< 0.010	0.0000810	< 0.00050	< 0.0030
L2009845-4	WQ8	Surface		10/17/2017	< 0.000010	3.50	0.0937	1.52	< 0.000010	< 0.00010	< 0.010	0.0000730	< 0.00050	< 0.0030
L2020333-4	WQ8	Surface		11/7/2017	< 0.000010	3.40	0.0990	1.32	< 0.000010	< 0.00010	< 0.010	0.0000700	< 0.00050	< 0.0030
L2034610-1	WQ8	Surface		12/11/2017	< 0.000010	3.70	0.104	1.28	< 0.000010	< 0.00010	< 0.010	0.0000790	< 0.00050	< 0.0030
L2049224-5	WQ8	Surface	Dup	1/23/2018	< 0.000010	4.20	0.113	1.77	< 0.000010	< 0.00010	< 0.010	0.0000890	< 0.00050	0.00360
L2049224-1	WQ8	Surface		1/23/2018	< 0.000010	4.20	0.111	1.70	< 0.000010	< 0.00010	< 0.010	0.0000860	< 0.00050	< 0.0030

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LabID	Site	Depth	QAQC	Date	Total Metals									
					Silver (Ag)-Dissolved	Sodium (Na)-Dissolved	Strontium (Sr)-Dissolved	Sulfur (S)-Dissolved	Thallium (Tl)-Dissolved	Tin (Sn)-Dissolved	Titanium (Ti)-Dissolved	Uranium (U)-Dissolved	Vanadium (V)-Dissolved	Zinc (Zn)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2057954-1	WQ8	Surface		2/15/2018	<0.000010	3.80	0.109	1.45	<0.000010	<0.00010	<0.010	0.0000800	<0.00050	<0.0030
L2073898-2	WQ8	Surface		3/27/2018	<0.000010	3.60	0.101	1.42	<0.000010	<0.00010	<0.010	0.0000840	<0.00050	<0.0030
L2081503-2	WQ8	Surface		4/17/2018	<0.000010	3.80	0.104	1.22	<0.000010	<0.00010	<0.010	0.0000870	<0.00050	<0.0030
L2096380-1	WQ8	Surface		5/15/2018	<0.000010	3.40	0.0951	0.940	<0.000010	<0.00010	<0.010	0.0000930	<0.00050	<0.0030
L2104479-2	WQ8	Surface		5/30/2018	<0.000010	3.40	0.0880	0.850	<0.000010	<0.00010	<0.010	0.0000820	<0.00050	<0.0030
L2132128-2	WQ8	Surface		7/17/2018	<0.000010	3.40	0.0891	1.00	<0.000010	<0.00010	<0.010	0.0000930	<0.00050	<0.0010
L2144782-1	WQ8	Surface		8/9/2018	<0.000010	3.30	0.0911	0.920	<0.000010	<0.00010	<0.010	0.0000920	<0.00050	<0.0010
L2164448-2	WQ8	Surface		9/12/2018	<0.000010	3.60	0.102	1.09	<0.000010	<0.00010	<0.010	0.0000940	<0.00050	<0.0010
L2187638-2	WQ8	Surface		10/24/2018	<0.000010	3.10	0.0901	1.31	<0.000010	<0.00010	<0.010	0.0000800	<0.00050	<0.0010
L2203408-3	WQ8	Surface		11/27/2018	<0.000010	3.50	0.0878	1.18	<0.000010	<0.00010	<0.010	0.0000790	<0.00050	<0.0010
L2213684-6	WQ8	Surface	Dup	12/19/2018	<0.000010	3.80	0.0952	1.49	<0.000010	<0.00010	<0.010	0.0000830	<0.00050	<0.0010
L2213684-2	WQ8	Surface		12/19/2018	<0.000010	3.70	0.0962	1.33	<0.000010	<0.00010	<0.010	0.0000850	<0.00050	<0.0010
L2227101-2	WQ8	Surface		1/29/2019	<0.000010	4.10	0.103	1.13	<0.000010	<0.00010	<0.010	0.0000940	<0.00050	<0.0010
L2232050-5	WQ8	Surface		2/11/2019	<0.000010	3.90	0.105	1.47	<0.000010	<0.00010	<0.010	0.0000900	<0.00050	<0.0010
L2245144-1	WQ8	Surface		3/14/2019	<0.000010	3.80	0.104	1.54	<0.000010	<0.00010	<0.010	0.0000850	<0.00050	<0.0010
L2256054-2	WQ8	Surface		4/9/2019	<0.000010	3.20	0.0798	1.26	<0.000010	<0.00010	<0.010	0.0000760	<0.00050	<0.0010
L2277964-1	WQ8	Surface		5/21/2019	<0.000010	3.10	0.0923	1.17	<0.000010	<0.00010	<0.010	0.0000840	<0.00050	<0.0010
L2286702-2	WQ8	Surface		6/4/2019	<0.000010	3.20	0.0852	1.06	<0.000010	<0.00010	<0.010	0.0000790	<0.00050	<0.0010
L2313851-3	WQ8	Surface		7/18/2019	<0.000010	3.10	0.0836	1.33	<0.000010	<0.00010	<0.010	0.0000790	<0.00050	<0.0010
L2328474-4	WQ8	Surface		8/12/2019	<0.000010	3.40	0.0904	1.31	<0.000010	<0.00010	<0.010	0.0000870	<0.00050	<0.0010
L2349445-2	WQ8	Surface		9/16/2019	<0.000010	3.40	0.0972	1.58	<0.000010	<0.00010	<0.010	0.0000870	<0.00050	<0.0010
L2371052-2	WQ8	Surface		10/22/2019	<0.000010	3.80	0.0930	1.11	<0.000010	<0.00010	<0.010	0.0000730	<0.00050	<0.0010
L2388381-2	WQ8	Surface		11/25/2019	<0.000010	3.30	0.0915	1.25	<0.000010	<0.00010	<0.010	0.0000790	<0.00050	<0.0010
VA19A0791-002	WQ8	Surface		12/17/2019	<0.000010	3.61	0.0981	1.46	<0.000010	0.000110	<0.00030	0.0000800	<0.00050	<0.0010
VA20A0960-002	WQ8	Surface		1/27/2020	<0.000010	3.79	0.103	1.28	<0.000010	<0.00010	<0.00030	0.0000810	<0.00050	<0.0010
VA20A2126-002	WQ8	Surface		2/19/2020	<0.000010	3.57	0.0968	1.21	<0.000010	<0.00010	<0.00030	0.0000830	<0.00050	<0.0010
VA20A3691-003	WQ8	Surface		3/18/2020	<0.000010	4.10	0.103	1.27	<0.000010	<0.00010	<0.00030	0.0000860	<0.00050	<0.0010
VA20A4555-003	WQ8	Surface		4/7/2020	<0.000010	3.60	0.104	1.33	<0.000010	<0.00010	<0.00030	0.0000840	<0.00050	<0.0010
VA20A6356-001	WQ8	Surface		5/11/2020	<0.000010	3.55	0.0977	1.36	<0.000010	<0.00010	<0.00030	0.0000800	<0.00050	<0.0010
VA20A7797-004	WQ8	Surface		6/3/2020	<0.000010	3.53	0.0910	1.35	<0.000010	<0.00010	<0.00030	0.0000760	<0.00050	<0.0010
VA20B0021-004	WQ8	Surface		7/7/2020	<0.000010	3.35	0.0926	1.27	<0.000010	<0.00010	<0.00030	0.0000900	<0.00050	<0.0010
VA20B2156-005	WQ8	Surface		8/5/2020	<0.000010	3.35	0.0943	1.48	<0.000010	<0.00010	<0.00030	0.0000840	<0.00050	<0.0010
VA20B4443-004	WQ8	Surface		9/2/2020	<0.000010	3.52	0.0979	1.14	<0.000010	<0.00010	<0.00030	0.0000810	<0.00050	<0.0010
VA20B7624-002	WQ8	Surface		10/6/2020	<0.000010	3.31	0.101	1.21	<0.000010	<0.00010	<0.00030	0.0000810	<0.00050	<0.0010
VA20C0298-002	WQ8	Surface		11/5/2020	<0.000010	3.67	0.0878	0.740	<0.000010	<0.00010	0.000430	0.0000620	<0.00050	<0.0010
	WQ9	Surface	Dup	3/30/2011	< 0.00005	3.50	0.110	-	< 0.00005	< 0.0001	0.000300	0.000130	< 0.00005	0.000900
	WQ9	Surface		3/30/2011	< 0.00005	3.60	0.107	-	< 0.00005	< 0.0001	0.000300	0.000120	< 0.00005	0.00390
	WQ9	Surface	Dup	4/19/2011	< 0.00005	3.80	0.107	-	< 0.00005	< 0.0001	0.000300	0.000150	< 0.00005	0.00280
	WQ9	Surface		4/19/2011	< 0.00005	3.60	0.109	-	< 0.00005	< 0.0001	0.00160	0.000150	< 0.00005	0.00200
	WQ9	Surface		5/17/2011	< 0.00005	2.70	0.0714	-	< 0.00005	< 0.0001	0.00100	0.0000800	0.000400	0.00390
	WQ9	Surface		5/24/2011	< 0.00005	2.40	0.0725	-	< 0.00005	< 0.0001	0.00130	0.000100	0.0000800	0.00320
	WQ9	Surface	Dup	5/30/2011	< 0.00005	2.40	0.0675	-	< 0.00005	< 0.0001	0.000700	0.000100	0.000200	0.000900
	WQ9	Surface		5/30/2011	< 0.00005	2.50	0.0680	-	< 0.00005	< 0.0001	0.00100	0.000110	0.000240	0.00490
	WQ9	Surface		6/6/2011	< 0.00005	2.60	0.0737	-	< 0.00005	< 0.0001	0.000900	0.0000900	0.000250	0.00120

Appendix B-1: Stream Water Quality Data, Blackwater Gold Project, 2011 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals									
					Silver (Ag)-Dissolved	Sodium (Na)-Dissolved	Strontium (Sr)-Dissolved	Sulfur (S)-Dissolved	Thallium (Tl)-Dissolved	Tin (Sn)-Dissolved	Titanium (Ti)-Dissolved	Uranium (U)-Dissolved	Vanadium (V)-Dissolved	Zinc (Zn)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ9	Surface		6/13/2011	< 0.00005	2.60	0.0761	-	< 0.00005	< 0.0001	0.00120	0.000100	0.000280	0.00120
	WQ9	Surface		7/18/2011	< 0.00005	2.60	0.0810	-	< 0.00005	< 0.0001	0.000700	0.000100	0.000390	0.00100
	WQ9	Surface		8/15/2011	< 0.00005	3.00	0.0870	-	< 0.00005	< 0.0001	0.000300	0.0000900	0.000300	0.000800
	WQ9	Surface		9/19/2011	< 0.00005	3.10	0.0970	-	< 0.00005	< 0.0001	0.000200	0.0000900	0.000800	0.000700
	WQ9	Surface		10/17/2011	< 0.00005	3.10	0.0906	-	< 0.00005	< 0.0001	0.000300	0.000100	0.000200	< 0.0005
	WQ9	Surface		11/14/2011	< 0.00005	3.30	0.0936	-	< 0.00005	< 0.0001	< 0.0002	0.000100	0.000250	0.00120
	WQ9	Surface		12/12/2011	< 0.00005	3.40	0.100	-	< 0.00005	< 0.0001	< 0.0002	0.0000900	0.000190	< 0.0005
	WQ9	Surface		1/12/2012	< 0.00005	3.50	0.107	-	< 0.00005	< 0.0001	< 0.0002	0.000100	0.000200	0.00110
	WQ9	Surface		2/13/2012	< 0.00005	3.50	0.105	-	< 0.00005	< 0.0001	< 0.0002	0.000110	< 0.00005	0.000800
	WQ9	Surface		3/12/2012	< 0.00005	3.40	0.100	-	< 0.00005	< 0.0001	< 0.0002	0.000110	< 0.00005	0.00150
	WQ9	Surface		4/17/2012	< 0.00005	3.20	0.0931	-	< 0.00005	< 0.0001	0.000200	0.000140	0.000220	0.00210
	WQ9	Surface		5/14/2012	< 0.00005	3.20	0.0857	-	< 0.00005	< 0.0001	0.000600	0.000100	0.000300	0.00360
	WQ9	Surface	Dup	5/22/2012	< 0.00005	2.90	0.0790	-	< 0.00005	< 0.0001	0.00120	0.0000700	0.000260	< 0.0005
	WQ9	Surface		5/22/2012	< 0.00005	2.90	0.0791	-	< 0.00005	< 0.0001	0.000800	0.0000700	0.000270	0.00300
	WQ9	Surface		5/28/2012	< 0.00005	2.90	0.0779	-	< 0.00005	< 0.0001	0.000700	0.000100	0.000200	0.00200
	WQ9	Surface		6/4/2012	< 0.00005	3.00	0.0792	-	< 0.00005	< 0.0001	0.000400	0.0000800	< 0.00005	< 0.0005
	WQ9	Surface		6/11/2012	< 0.00005	3.00	0.0801	-	< 0.00005	0.000200	0.000600	0.0000900	0.000200	0.00120
	WQ9	Surface		6/18/2012	< 0.00005	3.00	0.0797	-	< 0.00005	< 0.0001	0.000400	0.000110	0.000370	0.00150
	WQ9	Surface		7/16/2012	< 0.00005	3.30	0.0915	-	< 0.00005	< 0.0001	0.000200	0.0000800	0.000300	< 0.0005
	WQ9	Surface		8/13/2012	< 0.00005	3.50	0.103	-	< 0.00005	< 0.0001	0.000200	0.0000900	0.000360	0.000900
	WQ9	Surface		9/17/2012	< 0.00005	3.40	0.101	-	< 0.00005	< 0.0001	< 0.0002	0.000100	0.000260	< 0.0005
	WQ9	Surface		10/16/2012	< 0.00005	3.70	0.0971	-	< 0.00005	< 0.0001	0.000200	0.000110	0.000210	0.00250
	WQ9	Surface		11/12/2012	< 0.00005	3.60	0.0958	-	< 0.00005	< 0.0001	0.000200	0.000110	< 0.00005	0.00140
	WQ9	Surface	Dup	12/10/2012	< 0.00005	3.80	0.104	-	< 0.00005	< 0.0001	< 0.0002	0.000100	< 0.00005	0.000700
	WQ9	Surface		12/10/2012	< 0.00005	3.80	0.101	-	< 0.00005	< 0.0001	< 0.0002	0.000100	< 0.00005	< 0.0005
	WQ9	Surface		1/15/2013	< 0.00005	3.90	0.106	-	< 0.00005	< 0.0001	< 0.0002	0.000120	< 0.00005	0.00190
	WQ9	Surface		2/13/2013	< 0.00005	4.00	0.105	-	< 0.00005	< 0.0001	< 0.0002	0.0000900	< 0.00005	0.00370
	WQ9	Surface		3/12/2013	< 0.00005	4.00	0.110	-	< 0.00005	< 0.0001	< 0.0002	0.000130	< 0.00005	0.00270
	WQ9	Surface		4/16/2013	< 0.00005	3.20	0.0972	-	< 0.00005	< 0.0001	0.000700	0.0000900	< 0.00005	0.00120
	WQ9	Surface		5/14/2013	< 0.00005	2.60	0.0815	-	< 0.00005	< 0.0001	0.00100	0.000100	< 0.00005	0.00150
	WQ9	Surface		5/21/2013	< 0.00005	3.00	0.0857	-	< 0.00005	< 0.0001	0.000500	0.0000800	< 0.00005	0.000800
	WQ9	Surface	Dup	5/28/2013	< 0.00005	3.10	0.0619	-	< 0.00005	< 0.0001	0.00100	0.0000900	< 0.00005	< 0.0005
	WQ9	Surface		5/28/2013	< 0.00005	3.20	0.0635	-	< 0.00005	< 0.0001	0.000900	0.0000900	< 0.00005	< 0.0005
	WQ9	Surface		6/4/2013	< 0.00005	2.90	0.0806	-	< 0.00005	< 0.0001	0.000500	0.0000900	< 0.00005	< 0.0005
	WQ9	Surface		6/11/2013	< 0.00005	3.00	0.0848	-	< 0.00005	< 0.0001	0.000600	0.000100	< 0.00005	0.00110
	WQ9	Surface		6/18/2013	< 0.00005	< 0.5	0.0775	-	< 0.00005	< 0.0001	0.000600	0.0000700	< 0.00005	0.000800
	WQ9	Surface		4/13/2014	< 0.00005	3.10	0.0886	-	< 0.00005	< 0.0001	0.000300	0.000120	< 0.00005	0.00310
	WQ9	Surface	Dup	7/2/2014	< 0.00005	3.20	0.0869	-	< 0.00005	< 0.0001	0.000200	0.000130	0.000110	0.00250
	WQ9	Surface		7/2/2014	< 0.00005	3.20	0.0881	-	< 0.00005	< 0.0001	0.000300	0.0000800	0.000100	0.00120
	WQ9	Surface		9/24/2014	< 0.00005	3.70	0.105	-	< 0.00005	< 0.0001	0.000200	0.000130	0.000200	0.00240
	WQ9	Surface		12/9/2014	< 0.00005	3.70	0.0985	-	< 0.00005	< 0.0001	< 0.0002	0.0000900	< 0.00005	< 0.0005
L1812856-10	WQ9	Surface		8/10/2016	< 0.000010	3.30	0.0912	-	< 0.000010	< 0.00010	< 0.010	0.0000870	< 0.00050	< 0.0030
L1815654-10	WQ9	Surface		8/16/2016	< 0.000010	3.40	0.0923	-	< 0.000010	< 0.00010	< 0.010	0.0000940	< 0.00050	< 0.0030
L1819041-1	WQ9	Surface		8/23/2016	< 0.000010	3.40	0.0934	-	< 0.000010	< 0.00010	< 0.010	0.000105	< 0.00050	< 0.0030

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LabID	Site	Depth	QAQC	Date	Total Metals									
					Silver (Ag)-Dissolved	Sodium (Na)-Dissolved	Strontium (Sr)-Dissolved	Sulfur (S)-Dissolved	Thallium (Tl)-Dissolved	Tin (Sn)-Dissolved	Titanium (Ti)-Dissolved	Uranium (U)-Dissolved	Vanadium (V)-Dissolved	Zinc (Zn)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1823224-3	WQ9	Surface		8/31/2016	<0.000010	3.40	0.0971	-	<0.000010	<0.00010	<0.010	0.0000950	<0.00050	<0.0030
L1826303-6	WQ9	Surface	Dup	9/7/2016	<0.000010	3.00	0.0923	-	<0.000010	<0.00010	<0.010	0.0000900	<0.00050	<0.0030
L1826303-10	WQ9	Surface		9/7/2016	<0.000010	2.80	0.0710	-	<0.000010	<0.00010	<0.010	0.000106	<0.00050	<0.0030
L1913531-7	WQ9	Surface		4/12/2017	<0.000010	3.00	0.0878	-	<0.000010	<0.00010	<0.010	0.000110	<0.00050	<0.0030
L1926080-5	WQ9	Surface		5/11/2017	<0.000010	2.90	0.0803	-	<0.000010	<0.00010	<0.010	0.0000870	<0.00050	<0.0030
L1939712-9	WQ9	Surface		6/7/2017	<0.000010	3.10	0.0839	-	<0.000010	<0.00010	<0.010	0.0000940	<0.00050	<0.0030
L1962414-5	WQ9	Surface		7/19/2017	<0.000010	3.20	0.0875	-	<0.000010	<0.00010	<0.010	0.0000960	<0.00050	<0.0030
L1984944-7	WQ9	Surface		8/30/2017	<0.000010	3.40	0.102	1.17	<0.000010	<0.00010	<0.010	0.000100	<0.00050	<0.0030
L1988832-5	WQ9	Surface		9/9/2017	<0.000010	3.50	0.0984	1.23	<0.000010	<0.00010	<0.010	0.000117	<0.00050	<0.0030
L2009845-6	WQ9	Surface	Dup	10/17/2017	<0.000010	3.40	0.0855	1.30	<0.000010	<0.00010	<0.010	0.0000830	<0.00050	<0.0030
L2009845-3	WQ9	Surface		10/17/2017	<0.000010	3.30	0.0861	1.33	<0.000010	<0.00010	<0.010	0.0000930	<0.00050	<0.0030
L2020333-3	WQ9	Surface		11/7/2017	<0.000010	3.10	0.0932	1.39	<0.000010	<0.00010	<0.010	0.0000880	<0.00050	<0.0030
L2034610-6	WQ9	Surface	Dup	12/11/2017	<0.000010	3.50	0.100	1.04	<0.000010	<0.00010	<0.010	0.0000990	<0.00050	<0.0030
L2034610-3	WQ9	Surface		12/11/2017	<0.000010	3.40	0.103	0.870	<0.000010	<0.00010	<0.010	0.0000900	<0.00050	<0.0030
L2049224-2	WQ9	Surface		1/23/2018	<0.000010	4.00	0.107	1.60	<0.000010	<0.00010	<0.010	0.000114	<0.00050	0.00340
L2057025-1	WQ9	Surface		2/13/2018	<0.000010	3.60	0.0974	1.39	<0.000010	<0.00010	<0.010	0.000112	<0.00050	<0.0030
L2074294-2	WQ9	Surface		3/28/2018	<0.000010	3.30	0.0968	1.36	<0.000010	<0.00010	<0.010	0.000123	<0.00050	<0.0030
L2081503-3	WQ9	Surface		4/17/2018	<0.000010	3.60	0.104	1.17	<0.000010	<0.00010	<0.010	0.000128	<0.00050	<0.0030
L2097084-2	WQ9	Surface		5/16/2018	<0.000010	2.50	0.0687	0.930	<0.000010	<0.00010	<0.010	0.000103	<0.00050	<0.0030
L2104479-5	WQ9	Surface	Dup	5/30/2018	<0.000010	2.90	0.0787	0.730	<0.000010	<0.00010	<0.010	0.0000910	<0.00050	<0.0030
L2104479-3	WQ9	Surface		5/30/2018	<0.000010	3.00	0.0801	0.750	<0.000010	<0.00010	<0.010	0.0000890	<0.00050	<0.0030
L2132128-3	WQ9	Surface		7/17/2018	<0.000010	3.10	0.0868	1.11	<0.000010	<0.00010	<0.010	0.000103	<0.00050	<0.0010
L2144782-3	WQ9	Surface		8/9/2018	<0.000010	3.40	0.0939	0.830	<0.000010	<0.00010	<0.010	0.000111	0.000560	<0.0010
L2164448-5	WQ9	Surface		9/12/2018	<0.000010	3.60	0.0986	0.950	<0.000010	<0.00010	<0.010	0.000118	<0.00050	<0.0010
L2187638-5	WQ9	Surface		10/24/2018	<0.000010	3.00	0.0867	1.30	<0.000010	<0.00010	<0.010	0.0000930	<0.00050	<0.0010
L2203408-4	WQ9	Surface		11/27/2018	<0.000010	3.20	0.0854	1.27	<0.000010	<0.00010	<0.010	0.0000900	<0.00050	<0.0010
L2213684-3	WQ9	Surface		12/19/2018	<0.000010	3.60	0.0917	1.37	<0.000010	<0.00010	<0.010	0.0000960	<0.00050	<0.0010
L2227101-3	WQ9	Surface		1/29/2019	<0.000010	3.60	0.0963	1.11	<0.000010	<0.00010	<0.010	0.0000950	<0.00050	<0.0010
L2233329-3	WQ9	Surface		2/13/2019	<0.000010	3.90	0.103	1.48	<0.000010	<0.00010	<0.010	0.000105	<0.00050	<0.0010
L2245144-3	WQ9	Surface		3/14/2019	<0.000010	3.60	0.109	1.53	<0.000010	<0.00010	<0.010	0.000119	<0.00050	<0.0010
L2256054-3	WQ9	Surface		4/9/2019	<0.000010	3.00	0.0848	1.85	<0.000010	<0.00010	<0.010	0.000101	<0.00050	<0.0010
L2274397-4	WQ9	Surface		5/14/2019	<0.000010	2.70	0.0816	1.27	<0.000010	<0.00010	<0.010	0.000111	<0.00050	<0.0010
L2286702-3	WQ9	Surface		6/4/2019	<0.000010	3.10	0.0811	1.09	<0.000010	<0.00010	<0.010	0.0000820	<0.00050	<0.0010
L2313851-4	WQ9	Surface		7/18/2019	<0.000010	2.80	0.0759	1.16	<0.000010	<0.00010	<0.010	0.0000920	<0.00050	<0.0010
L2325935-3	WQ9	Surface		8/7/2019	<0.000010	3.10	0.0924	0.930	<0.000010	<0.00010	<0.010	0.0000890	<0.00050	<0.0010
L2349445-3	WQ9	Surface		9/16/2019	<0.000010	3.20	0.0929	1.43	<0.000010	<0.00010	<0.010	0.0000960	<0.00050	<0.0010
L2371052-3	WQ9	Surface		10/22/2019	<0.000010	3.20	0.0925	1.29	<0.000010	0.000670	<0.010	0.0000850	<0.00050	0.0265
L2388381-3	WQ9	Surface		11/25/2019	<0.000010	3.00	0.0832	1.09	<0.000010	<0.00010	<0.010	0.0000880	<0.00050	<0.0010
VA19A0791-003	WQ9	Surface		12/17/2019	<0.000010	3.38	0.0958	1.34	<0.000010	<0.00010	<0.00030	0.0000970	<0.00050	<0.0010
VA20A0960-005	WQ9	Surface	Dup	1/27/2020	<0.000010	3.69	0.102	1.17	<0.000010	<0.00010	<0.00030	0.000104	<0.00050	<0.0010
VA20A0960-003	WQ9	Surface		1/27/2020	<0.000010	3.62	0.0982	1.21	<0.000010	<0.00010	<0.00030	0.000101	<0.00050	<0.0010
VA20A2211-003	WQ9	Surface		2/20/2020	<0.000010	3.55	0.106	1.41	<0.000010	<0.00010	<0.00030	0.000102	<0.00050	<0.0010
VA20A3691-004	WQ9	Surface		3/18/2020	<0.000010	3.89	0.103	1.16	<0.000010	<0.00010	<0.00030	0.000121	<0.00050	<0.0010
VA20A4555-004	WQ9	Surface		4/7/2020	<0.000010	3.42	0.103	1.34	<0.000010	<0.00010	<0.00030	0.000117	0.000510	<0.0010

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LabID	Site	Depth	QAQC	Date	Total Metals									
					Silver (Ag)-Dissolved	Sodium (Na)-Dissolved	Strontium (Sr)-Dissolved	Sulfur (S)-Dissolved	Thallium (Tl)-Dissolved	Tin (Sn)-Dissolved	Titanium (Ti)-Dissolved	Uranium (U)-Dissolved	Vanadium (V)-Dissolved	Zinc (Zn)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
VA20A6218-005	WQ9	Surface	Dup	5/7/2020	<0.000010	3.14	0.0881	1.31	<0.000010	<0.00010	0.00168	0.0000940	<0.00050	<0.0010
VA20A6218-003	WQ9	Surface		5/7/2020	<0.000010	3.02	0.0798	1.26	<0.000010	<0.00010	0.000680	0.0000860	<0.00050	0.00110
VA20A6503-004	WQ9	Surface		5/13/2020	<0.000010	2.85	0.0832	0.620	<0.000010	<0.00010	0.000510	0.0000880	<0.00050	<0.0010
VA20A6869-006	WQ9	Surface	Dup	5/20/2020	<0.000010	2.90	0.0819	1.09	<0.000010	<0.00010	0.000570	0.000103	<0.00050	0.00190
VA20A6869-002	WQ9	Surface		5/20/2020	<0.000010	2.95	0.0753	1.08	<0.000010	<0.00010	0.000600	0.000106	<0.00050	<0.0010
VA20A7367-002	WQ9	Surface		5/28/2020	<0.000010	2.89	0.0786	1.03	<0.000010	<0.00010	<0.00030	0.0000960	<0.00050	<0.0010
VA20A7672-003	WQ9	Surface		6/2/2020	<0.000010	2.96	0.0808	0.910	<0.000010	<0.00010	<0.00030	0.0000940	<0.00050	<0.0010
VA20A9918-002	WQ9	Surface		7/6/2020	<0.000010	3.05	0.0852	1.16	<0.000010	<0.00010	0.000400	0.0000920	<0.00050	<0.0010
VA20B2156-006	WQ9	Surface		8/5/2020	<0.000010	3.27	0.0922	1.23	<0.000010	<0.00010	<0.00030	0.0000930	<0.00050	<0.0010
VA20B2426-001	WQ9	Surface		8/10/2020	<0.000010	3.28	0.0858	0.910	<0.000010	<0.00010	<0.00030	0.000102	0.000550	<0.0010
VA20B3033-005	WQ9	Surface	Dup	8/17/2020	<0.000010	3.15	0.0977	1.08	<0.000010	<0.00010	<0.00030	0.000100	<0.00050	<0.0010
VA20B3033-003	WQ9	Surface		8/17/2020	<0.000010	3.22	0.101	1.12	<0.000010	<0.00010	<0.00030	0.000103	<0.00050	<0.0010
VA20B3609-003	WQ9	Surface		8/24/2020	<0.000010	3.11	0.0951	1.22	<0.000010	<0.00010	<0.00030	0.000103	<0.00050	<0.0010
VA20B4443-005	WQ9	Surface		9/2/2020	<0.000010	3.17	0.0922	1.22	<0.000010	<0.00010	<0.00030	0.0000890	<0.00050	<0.0010
VA20B7624-003	WQ9	Surface		10/6/2020	<0.000010	3.23	0.103	0.910	<0.000010	<0.00010	<0.00030	0.000101	<0.00050	<0.0010
VA20C0298-003	WQ9	Surface		11/5/2020	<0.000010	2.58	0.0774	0.520	<0.000010	<0.00010	0.00214	0.0000860	<0.00050	<0.0010

Notes:

"-" indicates parameter was not analyzed.

"<" value is below the detection limit

**APPENDIX B-2 STREAM FIELD DATA, BLACKWATER GOLD PROJECT,
2017 TO 2020**

Appendix B-2: Stream Field Data, Blackwater Gold Project, 2017 to 2020

Site	Date	Depth (m)	Temperature (°C)	pH (pH Unit)	Conductivity (µS/cm)	Specific Conductivity (µS/cm)	Dissolved Oxygen Saturation (%)	Dissolved Oxygen (mg/L)
BI-09	11/9/2018	0.15	6.4	7.32	45.8	70.9	75.7	9.33
	13/2/2019	0.05	0	7.01	35.1	67.2	136.1	19.86
	13/8/2019	0.3	10.6	7.49	36.8	60.9	87.5	9.97
	14/3/2019	0.1	0	8.44	37.1	72.1	71.9	10.53
	15/5/2018	0.3	4.9	7.32	17.8	28.8	96	12.28
	16/12/2019	0.3	0.1	7.94	31.3	59.6	94.5	13.8
	16/4/2018	0.1	0.2	7.39	35.5	67.4	91	13.21
	17/7/2018	0.15	12.3	7.85	41.2	64.7	89.7	9.61
	17/9/2019	0.4	6.7	6.99	40.7	62.6	76.5	9.37
	18/7/2019	0.25	8.7	6	31.8	46.2	87.3	10.17
	19/12/2018	1	0	7.47	29.2	55.7	83	12.11
	19/2/2020	0.3	0.1	7.16	34.8	66.4	89.2	13
	22/10/2019	0.25	2.6	7.18	24.5	42.9	98.5	13.4
	23/1/2018	0.15	0	7.55	37.8	72.4	98.4	14.4
	24/10/2018	0.3	0.9	7.26	32.6	60.3	79.2	11.28
	26/5/2020	0.3	4.2	7.08	22.6	37.4	118.1	15.7
	27/2/2018	0.15	0	6.71	29.5	56.5	88	12.97
	27/3/2018	0.1	0.1	7.47	33.5	63.7	122.6	17.83
	28/11/2018	0.3	0	7.22	23.6	45.1	85.1	12.93
	28/5/2018	30	6.8	6.84	42.7	67.6	87	10.5
	28/5/2019	0.3	7.3	7.15	27.6	41.7	93.1	11.25
	29/1/2019	0.1	0	7.24	33.4	64	85.8	12.53
	3/6/2019	0.3	5.7	7.24	29	45.5	89.1	11.18
	4/11/2020	0.3	2.5	7.05	22.8	40	91.5	12.5
	5/11/2019	0.35	2	7.1	25.8	46	103.7	14.3
	6/8/2020	0.3	9.5	7.48	36.6	52	86.8	9.77
7/9/2017	0.1	10.34	7.37	40	55	75.5	8.45	
8/8/2018	0.3	10.5	7.14	44.8	62	76.3	8.52	
9/4/2019	0.35	0.1	7.31	24.7	47.3	104.5	15.25	
BI-12	7/9/2017	0.05	12.9	7.49	31	40	83	8.77
BI-13	9/9/2017	0.1	9.59	7.5	39	55	86.9	9.91

Appendix B-2: Stream Field Data, Blackwater Gold Project, 2017 to 2020

Site	Date	Depth (m)	Temperature (°C)	pH (pH Unit)	Conductivity (µS/cm)	Specific Conductivity (µS/cm)	Dissolved Oxygen Saturation (%)	Dissolved Oxygen (mg/L)
WQ1	19/11/2020	0.2	0	7.43	10.3	19.8	97.4	14.63
	19/5/2020	0.5	1.5	6.4	37.5	57.9	-	-
	20/2/2020	0.1	0.1	7.43	16.7	31.9	78.1	11.4
	6/8/2020	0.25	7.7	6.93	16.3	24.4	80.2	9.57
WQ10	1/4/2020	-	0	6.95	48	91.9	98.7	15.57
	1/9/2020	0.3	9	7.09	44.5	64.4	89.3	10.33
	10/5/2017	0.5	1.1	7.06	18.3	-	-	13.19
	10/8/2020	0.3	8.1	7.39	38.6	56.8	-	-
	11/4/2017	-	1.2	6.68	51.9	-	102.5	-
	11/4/2017	-	1.2	6.68	51.9	-	102.5	-
	11/5/2020	0.3	1.6	6.63	15.3	27.6	95	13.3
	11/9/2018	0.1	6.7	7.7	58.8	90.4	86.5	10.6
	12/12/2017	0.1	0.69	6.92	64	119	79	11.34
	13/2/2018	0.15	0	7.15	45.7	87.7	87.9	12.89
	13/2/2020	0.25	0.6	6.69	42	78.5	81.2	11.66
	13/3/2019	0.2	0.2	8.1	57.7	109.6	97.2	14.12
	13/5/2019	0.3	3.3	6.56	11.8	28.6	105.3	14.02
	14/11/2019	0.3	2	7.58	21	37.5	95.9	13.29
	16/12/2019	0.4	2.3	8.19	27.1	47.2	81	10.1
	16/3/2020	0.3	0.1	7.39	77.3	148.2	99.2	16.4
	16/5/2018	0.4	3.8	6.74	11.6	19.5	84.6	11.16
	16/7/2019	0.25	8.7	6.89	26.9	39.3	77.1	8.9
	17/4/2018	0.25	0.4	7.38	50.4	94.7	91.3	13.19
	17/9/2019	0.3	6.4	7.17	40.5	62.6	91.7	11.28
	18/12/2018	0.3	0.2	7.17	34.9	66.4	96	13.95
	18/7/2017	0.23	8.04	6.18	42	63	100.7	11.88
	18/7/2018	0.3	11.2	7.77	47.9	65	88.4	9.74
19/10/2017	0.25	1.7	6.49	30	54.1	82.5	11.45	
19/5/2020	0.6	3.7	7.04	46.1	77.8	-	-	
19/8/2020	0.2	10.1	7.63	44.5	62.4	132.5	15.22	
2/6/2020	-	4.2	8.28	16.8	27.9	108.8	14.16	

Appendix B-2: Stream Field Data, Blackwater Gold Project, 2017 to 2020

Site	Date	Depth (m)	Temperature (°C)	pH (pH Unit)	Conductivity (µS/cm)	Specific Conductivity (µS/cm)	Dissolved Oxygen Saturation (%)	Dissolved Oxygen (mg/L)
WQ10 (cont'd)	23/1/2020	0.4	3.7	7.15	36.1	62.5	99.6	14.4
	23/10/2019	0.35	2.3	6.87	24	42.4	97.1	13.28
	24/1/2018	0.15	0.2	7.8	45.4	86.3	87.6	12.72
	24/8/2020	0.3	7.9	6.96	39.5	58.7	108.6	12.77
	26/10/2018	0.2	1.2	7.94	36.5	66.8	88.3	12.44
	26/5/2020	0.25	4.1	6.1	15.6	26	88.8	11.59
	28/3/2018	0.3	0.3	4.82	51	96.5	112	16.31
	29/11/2018	0.3	0.6	7.56	29.2	51.3	109.8	16.04
	29/5/2018	0.3	3.7	6.99	16.7	28.1	73.6	9.72
	3/6/2019	0.35	5.6	6.91	22.2	35.2	94.9	11.87
	30/1/2019	0.3	0.5	7.44	44.3	83.2	79.2	11.42
	30/8/2017	0.2	8.4	6.22	74	108	95.3	10.43
	4/11/2020	0.4	2.1	6.9	17.6	31.2	107.9	14.86
	5/8/2020	0.3	9.4	7.63	46.8	66.8	96	11
	6/10/2020	0.3	7.7	7.28	26.5	39.6	92.9	11.09
	6/7/2020	0.3	7.8	7.88	25	37.2	87.4	10.41
	7/5/2020	0.4	1.1	8.09	16.9	31.1	96.7	13.7
	7/6/2017	0.3	5.83	6.83	12	19	88.3	11.05
	7/8/2018	0.25	11.2	7.32	48.6	66.1	97.8	10.73
	8/11/2017	0.3	-0.1	6.67	28.2	54.2	98	14.34
8/4/2019	0.25	0.7	7.13	39.5	73.5	79.7	11.4	
8/8/2019	0.2	9.7	7.12	31.6	44.6	92.4	10.48	
8/9/2017	0.25	8.55	7.16	69	101	82.2	9.61	
WQ13	1/9/2020	0.2	12.9	7.56	101	131.3	95.6	9.86
	11/12/2017	0.15	1.28	8.05	75	137	73.8	10.41
	11/5/2017	0.8	6.6	7.79	73.4	-	104.8	-
	11/5/2020	0.7	7.4	7.11	75.7	113.9	-	-
	11/8/2020	0.3	13.4	8.38	101.4	130.1	91	9.61
	12/4/2017	0.5	4.6	7.91	73.4	-	96.8	11.43
	12/4/2017	0.5	4.6	7.91	73.4	-	96.8	11.43
	12/9/2018	0.3	8.9	7.42	93.3	139.9	67.2	7.8

Appendix B-2: Stream Field Data, Blackwater Gold Project, 2017 to 2020

Site	Date	Depth (m)	Temperature (°C)	pH (pH Unit)	Conductivity (µS/cm)	Specific Conductivity (µS/cm)	Dissolved Oxygen Saturation (%)	Dissolved Oxygen (mg/L)
WQ13 (cont'd)	14/3/2019	0.5	0.3	8.46	79.9	161.7	92.8	13.35
	14/5/2019	0.8	8	7.86	74.9	110.8	95.3	11.18
	16/4/2018	0.2	-	-	-	-	-	-
	16/5/2018	0.8	9.9	7.54	71.7	100.8	99.5	11.27
	16/7/2019	0.5	16.8	7.69	104.8	124.2	95.3	9.47
	16/9/2019	0.4	11.1	6.87	101.6	146.7	68.4	7.85
	17/10/2017	0.5	5.8	7.25	68.6	108.4	84.8	10.61
	17/12/2019	0.5	1.3	7.89	72.3	132.1	86	12.01
	18/11/2020	0.4	2.5	7.46	71.4	125	-	-
	18/3/2020	0.1	0.1	7.58	84.5	160.8	87.8	12.84
	18/7/2018	0.4	15.5	7.68	100.2	122.4	84.3	8.39
	18/8/2020	0.2	14.6	8.29	101.1	126.1	89.9	8.6
	19/12/2018	0.6	0.7	7.41	73	136.4	75.4	10.8
	19/2/2020	0.25	0.8	7.35	78.8	146.7	91.7	13.1
	20/5/2020	0.8	8.1	8	69.3	102.6	98.9	11.65
	22/2/2018	0.25	-0.1	7.4	77.7	148.9	94.8	13.89
	23/1/2018	0.4	-0.1	7.72	82.3	157.9	100.7	11.74
	23/10/2019	0.25	4.8	7.27	71.2	116.1	87.9	11.29
	24/7/2017	0.6	11.47	7.02	94	127	96.9	10.55
	25/11/2019	0.2	2	7.13	68.6	122.2	90.7	12.57
	26/10/2018	0.4	4.4	7.78	74.7	131.6	89.4	11.6
	26/8/2020	0.4	13.9	8.38	99.1	125.8	98.1	10.12
	27/1/2020	0.25	0.6	7.37	73.3	137.4	90.7	13.01
	27/11/2018	0.8	2.8	7.49	71.3	123.9	76.5	10.35
	27/5/2020	0.5	9	7.7	77.2	111.4	94.3	10.82
	28/3/2018	0.35	2.8	7.85	86.3	149.5	101.5	12.7
	29/1/2019	0.4	0	7.49	78.4	150	78.5	11.49
	3/6/2020	0.4	9.4	7.98	76.7	109.4	99.9	11.49
30/5/2018	0.5	8.7	7.19	81.1	117.7	90.8	10.56	
30/8/2017	0.5	15.29	7.78	116	142	114.3	11.31	
4/6/2019	0.45	11	7.96	93.5	127.6	114.6	12.64	

Appendix B-2: Stream Field Data, Blackwater Gold Project, 2017 to 2020

Site	Date	Depth (m)	Temperature (°C)	pH (pH Unit)	Conductivity (µS/cm)	Specific Conductivity (µS/cm)	Dissolved Oxygen Saturation (%)	Dissolved Oxygen (mg/L)
WQ13 (cont'd)	5/8/2020	0.2	17.5	8.94	111.1	129.6	105.1	9.67
	6/4/2020	0.2	2.8	7.37	85	147.6	107.7	14.54
	7/11/2017	0.4	1.1	6.5	71.6	131.7	83.3	11.8
	7/5/2020	0.8	6.3	7.73	73.8	114.7	98.7	12.8
	7/6/2017	0.8	16.01	8.06	73	88	99.4	9.81
	7/7/2020	0.3	13.6	8.01	88.6	113.2	89.1	9.25
	8/10/2020	0.25	9.7	7.79	95.9	135.5	99.2	11.27
	8/8/2019	0.4	17.3	8.09	102.2	119.7	101	9.93
	9/4/2019	0.25	1.8	7.54	68.6	122.9	100.9	12.98
	9/8/2018	0.2	15.3	7.97	105.2	129	94	9.4
	9/9/2017	0.35	14.45	7.76	80	100	92.9	9.48
WQ26	11/5/2017	0.3	2.1	7.42	23.1	-	107.8	-
	11/9/2018	0.1	7.4	7.81	62.3	106.2	88.3	10.31
	12/12/2017	0.15	-0.02	5.96	82	157	85.2	12.45
	12/4/2017	0.4	0.8	7.82	61.2	-	94.7	-
	12/4/2017	0.4	0.8	7.82	61.2	-	94.7	-
	13/2/2020	0.3	0.6	7.1	52.6	98.4	82.2	11.81
	13/3/2019	0.2	0	7.6	69.3	132.9	106	16.1
	13/5/2019	0.4	3.9	6.74	21.5	36	107.1	14.01
	13/9/2017	0.1	5.1	7.55	67	107.9	85.8	10.91
	14/11/2019	0.2	2	7.23	23.3	50.4	96.8	13.2
	14/2/2018	0.1	0.1	7.32	53.3	112.4	92.8	13.59
	14/5/2020	0.25	3.8	7.34	19.1	32.1	98.5	12.98
	16/12/2019	0.3	-0.1	7.77	37.6	72.1	94.4	11.8
	16/3/2020	0.2	0	7.45	82.1	157.2	-	-
	16/5/2018	0.4	4.5	6.88	14.9	24.5	85.5	11.05
	16/7/2019	0.25	9.9	7.08	37.3	52.4	94.1	10.67
	16/9/2019	0.5	6.9	7.39	52.2	79.7	82.8	10.15
17/10/2017	0.25	3.5	7.52	34.8	58.9	94.7	12.56	
17/11/2020	0.2	-0.1	7.61	28.1	53.9	83.2	12.21	
17/4/2018	0.15	0.5	7.67	61.6	115.7	95.6	13.97	

Appendix B-2: Stream Field Data, Blackwater Gold Project, 2017 to 2020

Site	Date	Depth (m)	Temperature (°C)	pH (pH Unit)	Conductivity (µS/cm)	Specific Conductivity (µS/cm)	Dissolved Oxygen Saturation (%)	Dissolved Oxygen (mg/L)
WQ26 (cont'd)	17/5/2017	0.2	1.42	7.24	37	-	-	-
	18/12/2018	0.3	0	7.28	44.9	85.9	151.4	22.1
	18/7/2018	0.2	12.1	7.88	61.2	81.3	94.7	10.8
	21/1/2020	0.5	0	7.99	50.1	96.1	105.1	14.8
	21/5/2019	0.1	3.6	6.06	18.5	31.4	90.5	12
	21/9/2017	0.25	4.34	7.78	45	74	85.7	11.12
	22/10/2019	0.2	2.4	7.1	31.6	55.6	98.7	13.51
	24/1/2018	0.05	0	7.5	53.7	102.6	91.2	11.3
	24/5/2017	0.4	3.4	7.18	18.6	31.7	107.1	12.68
	24/5/2017	0.4	3.4	7.18	18.6	31.7	107.1	12.68
	24/7/2017	0.3	7.99	7.43	56	84	96	11.37
	26/10/2018	0.3	1.6	7.58	47.2	85.5	92.6	12.9
	27/11/2018	0.3	1.1	7.79	37	68.2	82.3	11.65
	28/3/2018	0.2	0.2	7.85	60.6	115.1	99.7	14.52
	28/8/2018	0.2	9.7	7.73	76.7	107.8	80.6	9.15
	28/9/2017	0.7	5.89	7.56	69	108	84	10.48
	29/5/2018	0.2	4.4	7.3	23.4	38.5	74.6	9.66
	29/5/2019	0.35	7.7	6.7	28.5	42.6	93.4	11.15
	3/6/2019	0.3	6.1	7.03	31.3	48.7	94.4	11.72
	30/1/2019	0.1	-0.1	7.3	53.2	102	80.5	11.72
	30/5/2017	0.4	5.1	7.17	18.4	29.6	106.2	11.95
	30/8/2017	0.1	9.83	7.03	83	117	91.4	10.33
	4/9/2018	0.1	6.3	8.2	70.9	110.5	90.2	11.16
	5/8/2020	0.2	9	7.7	59.4	83.7	86	9.66
	6/5/2019	0.4	2	6.83	26.2	46.7	92	12.74
	6/9/2017	0.1	10.93	7.36	86	118	86.7	7.57
	7/11/2017	0.35	-0.1	7.3	36.9	69.9	89.2	13.07
	7/6/2017	-	6.2	6.89	18	28	88.5	10.96
7/8/2018	0.1	10.8	7.55	63.1	86.7	93	10.29	
7/9/2018	0.1	7.8	7.78	75.6	112.7	97.6	11.47	
8/4/2019	0.2	0.9	7.31	51.6	95.4	81.6	11.62	
8/8/2019	0.2	10.6	7.53	41.3	56.9	91.5	10.11	

Appendix B-2: Stream Field Data, Blackwater Gold Project, 2017 to 2020

Site	Date	Depth (m)	Temperature (°C)	pH (pH Unit)	Conductivity (µS/cm)	Specific Conductivity (µS/cm)	Dissolved Oxygen Saturation (%)	Dissolved Oxygen (mg/L)
WQ27	1/4/2020	0.3	0	7.11	50.2	96.2	87.1	12.74
	10/5/2017	0.3	1.9	7.37	19.4	-	-	13.11
	11/9/2018	0.2	6.9	7.73	61.2	94	86.1	10.5
	12/12/2017	0.1	0.47	7.06	64	120	80.3	11.57
	13/2/2020	0.2	0.5	6.94	43.3	81.3	87	12.44
	13/3/2019	0.1	0	6.55	61.1	117.1	108.3	15.8
	13/9/2017	0.15	4.8	7.28	58.2	94.6	83.6	107.2
	14/11/2019	0.2	2	7.26	22.1	39.54	97.8	13.52
	14/2/2018	0.15	-0.1	7.24	44.4	85.2	95.3	13.63
	14/5/2019	0.4	2.6	6.98	17.4	30.4	87.6	11.91
	16/12/2019	0.3	-0.1	8.15	29.9	57.5	97	14.2
	16/3/2020	0.25	0.1	7.3	79.9	153.1	89	13.02
	16/5/2018	0.4	4.1	6.87	12.4	20.7	81.5	10.65
	16/7/2019	0.2	9.2	7.07	28.8	41.3	92	10.58
	17/4/2018	0.1	0.4	7.56	51.9	97.8	93.7	13.52
	17/5/2017	0.2	1.43	7.05	18	-	-	-
	17/9/2019	0.1	4.7	7.18	43.9	70.7	89.3	11.21
	18/12/2018	0.4	0	7.12	36.1	69.2	89.1	12.99
	18/7/2017	0.25	8.39	6.88	45	66	97.5	11.41
	18/7/2018	0.1	11.2	7.68	49.7	67.5	93.9	10.22
	19/10/2017	0.35	1.8	6.99	29	52	97.4	12.16
	21/5/2019	0.1	3.5	5.95	15.4	25.8	87.7	11.64
	21/9/2017	0.15	3.59	7.57	34	58	82.2	10.82
	23/1/2020	0.3	0	7.17	36.5	70	99	14.4
	23/10/2019	0.15	1.9	6.52	25	44.2	97.5	13.52
	23/5/2018	0.4	6.7	7.24	15.7	24.1	90.7	11.11
	24/1/2018	0.15	0.1	7.68	45.6	87.2	89.8	12.8
	24/5/2017	0.2	2.7	7.08	15.5	27	106.9	12.75
	24/5/2017	0.2	2.7	7.08	15.5	27	106.9	12.75
	26/10/2018	0.2	1.2	7.73	38.4	70.2	88.5	12.47
28/3/2018	0.1	0.2	7.77	52.3	99.2	98.6	14.31	

Appendix B-2: Stream Field Data, Blackwater Gold Project, 2017 to 2020

Site	Date	Depth (m)	Temperature (°C)	pH (pH Unit)	Conductivity (µS/cm)	Specific Conductivity (µS/cm)	Dissolved Oxygen Saturation (%)	Dissolved Oxygen (mg/L)
WQ27 (cont'd)	28/8/2018	0.5	8.9	7.55	66.3	95.7	78.8	9.13
	28/9/2017	0.15	5.51	7.32	58	93	81.4	10.25
	29/11/2018	0.1	0.7	7.29	-	-	-	-
	29/5/2018	0.1	4	7.16	17.9	29.8	73.4	9.64
	29/5/2019	0.25	6.8	6.45	20.6	31.6	91.5	11.15
	3/6/2019	0.25	5.2	7.02	23.3	37.6	92.9	11.76
	30/1/2019	0.2	0	7.4	44.7	86.3	81.3	11.88
	30/5/2017	0.3	4.7	7.26	15.4	25.1	106.7	11.98
	30/8/2017	0.4	9.23	7.38	71	101	88	10.11
	4/4/2017	-	0.9	7.33	52.4	-	100.6	-
	4/4/2017	-	0.9	7.33	52.4	-	100.6	-
	4/6/2018	0.1	5	7.45	21.5	34.7	87.3	11.15
	4/9/2018	0.1	5.3	7.76	60.7	97.1	88.3	11.17
	6/5/2019	0.2	1.3	6.92	20.8	38.1	90.8	12.79
	7/6/2017	0.25	6.45	6.83	15	23	87.4	10.75
	7/8/2018	0.15	11.7	7.47	55.1	73.9	95.3	10.33
	7/9/2018	0.1	7.4	7.43	67.1	100.9	92.3	11.07
	8/11/2017	0.95	0	6.98	29.3	56.1	96.1	14.08
	8/4/2019	0.15	0.6	7.11	40.5	75.7	79.9	11.47
	8/8/2019	0.2	10.1	7.27	33.6	47.1	87.7	9.93
8/9/2017	0.1	10.66	7.32	77	106	80.2	8.94	
9/5/2018	0.5	1.1	6.86	10.2	21	82.5	11.7	
WQ28	1/4/2020	0.3	-0.1	6.93	49.5	94.9	88.6	12.97
	10/5/2017	0.4	1.8	7.25	18.9	-	-	13.16
	10/8/2020	0.15	8.6	7.57	42.2	61.6	101.6	11.62
	11/4/2017	-	1	7.2	51.9	-	102.1	-
	11/4/2017	-	1	7.2	51.9	-	102.1	-
	11/5/2020	0.3	1.9	6.45	17.4	31.1	-	-
	11/9/2018	0.15	7.1	7.76	60.5	92.1	88.1	10.7
	12/12/2017	0.07	0.64	7.01	66	124	79.7	11.45
13/2/2020	0.25	0.6	6.87	42.7	79.9	81.8	11.75	

Appendix B-2: Stream Field Data, Blackwater Gold Project, 2017 to 2020

Site	Date	Depth (m)	Temperature (°C)	pH (pH Unit)	Conductivity (µS/cm)	Specific Conductivity (µS/cm)	Dissolved Oxygen Saturation (%)	Dissolved Oxygen (mg/L)
WQ28 (cont'd)	13/3/2019	0.1	0.2	7.6	61.3	116.8	105.8	15.2
	14/11/2019	0.15	2	7.32	21.5	38.3	98.1	13.55
	14/2/2018	0.15	0	7.13	44.7	86.9	96.3	13.72
	14/5/2019	0.2	2.6	7.14	17.1	29.7	88.3	11.99
	16/12/2019	0.3	0.3	8.09	29.6	56.1	97.9	14.1
	16/3/2020	0.2	0	7.36	82.9	158.8	87.3	12.84
	16/5/2018	0.1	4.1	6.8	11.9	19.9	83.7	10.97
	16/7/2019	0.2	9.1	7	27.9	40.1	93.8	10.81
	17/4/2018	0.15	0.4	7.49	51.3	96.3	95.9	13.8
	17/5/2017	0.2	1.85	7.02	17	-	-	-
	17/9/2019	0.25	6.5	7	40.9	63.2	92.9	11.46
	18/12/2018	0.2	0.1	7.17	35.6	68	91.5	13.32
	18/7/2017	0.2	8.61	6.84	44	64	102	11.82
	18/7/2018	0.1	11.7	7.73	49.4	66.2	89.9	9.75
	19/10/2017	0.25	1.7	6.78	30.8	55.5	88.8	12.35
	21/5/2019	0.1	3.2	5.52	14.5	24.9	91.5	12.22
	21/9/2017	0.2	3.48	7.46	32	55	83.5	11.09
	23/1/2020	0.3	0.3	7.13	36.3	68.9	100.8	14.6
	23/10/2019	0.3	2.1	6.94	24.3	43.2	98.8	13.62
	23/5/2018	0.1	6.7	7.15	15.2	23.4	-	-
	24/1/2018	0.2	0.1	7.84	45	85.9	86.4	11.59
	24/5/2017	0.3	2.4	7.18	15	26.3	107.9	12.85
	24/5/2017	0.3	2.4	7.18	15	26.3	107.9	12.85
	26/10/2018	0.2	1.2	7.86	37.3	68.4	85.4	12.06
	28/3/2018	0.2	0.3	-	51.4	97.7	-	-
	28/8/2018	0.2	8.9	7.59	66.3	95.6	84.3	9.72
	28/9/2017	0.15	5.2	7.21	57	91	83.2	10.56
	29/11/2018	0.1	0.6	7.39	27.3	50.7	98.3	14.09
29/5/2018	0.15	3.9	7.16	17.2	28.8	74.1	9.74	
29/5/2019	0.25	6.5	6.72	19.9	30.7	97.4	11.97	
3/6/2019	0.25	5.4	6.99	22.6	36	93.3	11.77	

Appendix B-2: Stream Field Data, Blackwater Gold Project, 2017 to 2020

Site	Date	Depth (m)	Temperature (°C)	pH (pH Unit)	Conductivity (µS/cm)	Specific Conductivity (µS/cm)	Dissolved Oxygen Saturation (%)	Dissolved Oxygen (mg/L)
WQ28 (cont'd)	30/1/2019	0.1	0.3	7.51	43.8	82.5	79.9	11.59
	30/5/2017	0.3	4.6	7.43	15	24.5	105.9	11.93
	30/8/2017	0.2	9.01	7.03	76	109	90.7	10.49
	4/11/2020	0.3	2.2	6.86	18.1	32	70.7	9.95
	4/6/2018	0.15	5.1	7.89	20.6	33.3	91.5	11.64
	4/9/2018	0.05	5.2	7.93	59.9	96.3	90.4	11.47
	6/5/2019	0.2	1.2	6.72	20.2	36.5	94	13.25
	7/6/2017	0.2	4.33	6.94	14	22	88.2	10.89
	7/8/2018	0.2	12	7.56	54.6	72.7	101.2	10.87
	7/9/2018	0.2	7	7.23	66.4	101.4	97.2	11.78
	8/11/2017	0.35	-0.1	6.86	28.6	54.8	97.9	14.39
	8/4/2019	0.2	0.7	7.12	39	70.3	82	11.72
	8/8/2019	0.3	10	7.21	32.5	45.5	92.2	10.4
	8/9/2017	0.1	10.79	7.56	76	105	84.3	9.34
	9/5/2018	0.3	1	6.62	11.3	20.8	89.8	12.19
WQ29	11/2/2020	0.6	-0.1	7.61	77.1	148	-	-
	11/8/2020	0.3	13.1	8.01	108.6	140.5	90.9	9.55
	13/5/2020	0.5	7.2	7.68	71.4	108.2	86.8	10.5
	17/3/2020	0.2	-0.1	7.18	88.6	169.8	70.8	10.3
	17/8/2020	0.3	15.7	7.79	117.3	142.7	105.1	10.51
	2/11/2020	0.5	2.8	7.39	59.5	103.5	99.5	13.54
	2/4/2020	0.3	-0.1	7.66	84.7	162.6	106.1	15.53
	2/9/2020	0.6	12.5	7.79	108.6	142.7	107.9	11.59
	20/5/2020	0.5	8.7	7.79	67.5	98.1	91.4	10.64
	22/5/2019	0.5	8.2	6.75	64.2	94.5	86.7	10.3
	25/11/2019	0.3	0.4	7.32	63	118.8	94.6	13.67
	26/2/2019	-	2	6.67	85.3	149.3	82.3	10.3
	26/8/2020	0.4	13	8.17	106.4	137.8	88.6	9.32
	27/5/2020	0.45	6.7	7.65	71	109	90.1	11.03
	28/1/2020	0.5	2.9	7.56	75.6	131.6	82.3	12.04
3/6/2020	0.4	8.6	7.91	75.3	109.8	98.8	11.53	

Appendix B-2: Stream Field Data, Blackwater Gold Project, 2017 to 2020

Site	Date	Depth (m)	Temperature (°C)	pH (pH Unit)	Conductivity (µS/cm)	Specific Conductivity (µS/cm)	Dissolved Oxygen Saturation (%)	Dissolved Oxygen (mg/L)
WQ29 (cont'd)	4/8/2020	0.4	16.8	8.17	117.9	139.9	102.6	9.96
	6/5/2020	0.75	5.5	7.39	67	106.7	97.7	12.31
	7/7/2020	0.5	12.9	7.89	88.3	114.8	99.9	10.59
	7/8/2019	0.4	16.6	7.57	108.6	129.6	94.3	9.22
	8/10/2020	1	8.8	7.3	103.5	150.3	121	15.04
WQ3	11/5/2017	0.3	1	7.16	29.3	-	103.9	-
	12/2/2019	0.01	-0.1	7.14	51.9	99.6	92.1	13.4
	12/2/2020	0.1	0.6	6.69	47.9	89.7	88.3	12.67
	12/8/2019	0.25	8.5	7.26	43.5	63.4	89.7	10.5
	12/8/2020	0.25	6.2	7.7	55.9	87.5	92.3	11.42
	13/5/2019	0.2	2.3	7.13	31.7	56.1	104.7	14.28
	14/5/2020	0.3	2.8	7.2	22.9	39.8	92.1	12.49
	17/11/2020	0.2	0.4	7.47	28.1	69.5	79.8	11.59
	18/10/2017	0.1	2	7.13	35.1	62.7	88.4	12.33
	18/11/2019	0.2	1.2	6.68	29.2	53.2	86.5	12.3
	19/7/2017	0.15	8.83	7.39	38	56	92.9	10.77
	22/2/2018	0.1	0.5	7.27	51.2	94.1	99.8	14.45
	29/11/2018	0.15	0.7	8.17	39.4	73.6	121.6	17.4
	29/5/2018	0.15	4.7	7.23	29.1	47.6	68.7	8.85
	6/9/2017	0.2	8.58	7.03	58	84	83.9	9.81
	7/8/2018	0.1	10.1	7.1	62.2	87.1	95.1	10.7
WQ30	11/2/2020	0.35	0	7.24	79.1	151.7	92.1	13.46
	11/8/2020	0.5	11.8	7.8	108.9	145.6	112.1	12.86
	13/5/2020	1	8.1	7.73	72.9	107.7	86.1	10.17
	17/3/2020	0.25	0.1	6.96	94.2	180.5	74.4	10.89
	17/8/2020	0.5	14.2	7.68	114.8	144.3	97.5	9.91
	18/11/2019	0.4	2.4	7.23	62.6	110.3	91.6	12.55
	2/11/2020	0.4	2.8	7.22	58.4	101.4	102.7	13.84
	2/4/2020	0.5	0	6.96	90.9	174.2	87.8	12.84
	2/9/2020	0.7	11.8	7.53	111.6	149	118.9	12.86
20/5/2020	0.5	10	7.67	67.9	95.2	97.6	10.5	

Appendix B-2: Stream Field Data, Blackwater Gold Project, 2017 to 2020

Site	Date	Depth (m)	Temperature (°C)	pH (pH Unit)	Conductivity (µS/cm)	Specific Conductivity (µS/cm)	Dissolved Oxygen Saturation (%)	Dissolved Oxygen (mg/L)
WQ30 (cont'd)	22/5/2019	1	0.7	6.5	64.4	92.6	79	10.35
	26/2/2019	0.2	-0.1	7.1	88.1	168.9	77.9	11.4
	26/8/2020	0.5	11.7	7.65	105.9	141.9	99.2	10.66
	27/5/2020	0.3	7.9	7.59	72	107.1	98.9	11.7
	28/1/2020	-	0.1	7.33	77.8	149.2	96.2	14.8
	3/6/2020	0.4	9	7.83	76.8	110.6	-	-
	4/8/2020	0.5	15.1	7.94	116.6	143.8	105.8	10.65
	6/5/2020	0.75	6.2	7.52	68.5	106.7	100.5	12.43
	7/7/2020	0.3	13.3	7.66	89.1	114.8	85.9	8.99
	7/8/2019	0.3	16.7	7.71	108.7	129.1	89.2	8.69
	8/10/2020	1	8.3	7.28	95.8	162.4	131.7	15.44
WQ31	1/4/2020	0.2	0	6.7	31.4	60.7	86.7	12.62
	1/9/2020	0.12	7.8	6.51	30.9	47	96.7	11.54
	10/8/2020	0.15	6.8	6.88	27.2	41.7	92.3	11.5
	11/5/2020	0.35	0.3	6.78	13	24.6	93.7	13.58
	13/2/2020	0.25	3.4	6.02	27.2	47.8	73.2	9.18
	16/3/2020	0.1	0	7.06	31.7	61.1	82.9	11.99
	2/6/2020	0.3	3.5	7.8	16	27.3	103.9	13.81
	21/1/2020	0.2	0	7.91	25.8	49.6	92.9	13.6
	4/11/2020	0.2	1.9	6.8	16	28.7	113.5	15.78
	6/10/2020	0.15	6.9	6.92	34.5	52.8	144	17.54
6/7/2020	0.2	5.8	7.15	20.2	31.8	86.7	10.85	
WQ4	13/2/2019	0.2	0	7.1	33.9	64.9	97.2	14.3
	13/8/2019	0.3	9.2	7.05	52.1	74.9	89.7	10.5
	16/5/2019	0.1	2.4	6.07	28.6	50	74	10.4
	18/7/2017	0.1	6.3	6.83	96	144	91.5	10.92
	19/10/2017	0.1	2.3	6.72	57.6	101.9	81.5	11.22
	19/11/2020	0.15	0.1	7.62	37.3	71.2	78.9	11.53
	19/5/2020	0.2	3.1	6.8	23.9	41.2	80.4	10.8
	20/2/2020	0.1	0.1	7.62	68.6	130.9	87	12.7
22/2/2018	0.1	0.2	6.85	72.8	134	85	12.14	

Appendix B-2: Stream Field Data, Blackwater Gold Project, 2017 to 2020

Site	Date	Depth (m)	Temperature (°C)	pH (pH Unit)	Conductivity (µS/cm)	Specific Conductivity (µS/cm)	Dissolved Oxygen Saturation (%)	Dissolved Oxygen (mg/L)
WQ4 (cont'd)	28/11/2018	0.1	0.6	7.09	44	82.2	77.1	11.06
	28/5/2018	0.1	5	6.75	37.8	61.2	101.5	12.98
	5/11/2019	0.15	1.7	7.19	39.8	71.1	105.9	14.56
	6/8/2020	0.2	8.5	7.39	63.1	92.3	74.6	8.74
	8/8/2018	0.15	9.9	6.95	57.2	80.5	76.7	8.65
	9/5/2017	-	0	7.9	19.6	37.5	94	11.53
WQ5	10/5/2017	-	1.4	6.2	21.1	38.5	-	-
	12/2/2019	0.1	-0.1	6.84	44.8	86	101.3	13.8
	12/2/2020	0.2	0.3	5.63	39.2	74.3	99.7	14.44
	12/8/2019	0.25	10.3	7.27	30	40.7	91.7	10.27
	12/8/2020	0.3	7.6	7.47	51.7	77.4	90.6	10.34
	13/5/2019	0.4	3.5	6.67	19.5	33.5	103	13.79
	14/5/2020	0.4	3.8	7.08	16	27	95.8	12.62
	17/11/2020	0.1	0	7.28	28.4	54.5	105.4	13.39
	18/10/2017	0.1	1.8	6.79	17.2	30.8	92.3	12.78
	18/11/2019	0.4	1.2	6.16	18.2	33.3	84	12.56
	19/7/2017	0.1	8.98	7.66	32	47	93.5	10.82
	22/2/2018	0.1	0.8	7	42.2	77.1	96	11.5
	29/11/2018	0.2	0.5	7.54	30.1	56.4	108.6	15.63
	29/5/2018	0.2	6.2	7.15	25.1	39.2	71.4	8.83
	6/9/2017	0.1	11.51	6.96	50	67	84.5	9.21
7/8/2018	0.15	12.6	6.83	54.7	71.7	88.6	9.43	
WQ7	11/12/2017	0.1	-0.04	7.99	46	87	77	11.26
	11/5/2017	0.3	2.1	7.44	25.8	-	107	-
	11/8/2020	0.2	9.5	7.67	60.6	86.2	88.9	8.98
	12/4/2017	0.41	0.2	7.62	59.5	-	94.4	-
	12/4/2017	0.41	0.2	7.62	59.5	-	94.4	-
	12/8/2019	0.3	11.4	7.54	44.6	60.3	97.2	10.6
	12/9/2018	0.2	6.9	7.8	72.4	110.7	87.3	10.63
	13/5/2020	0.4	4.3	7.55	23.1	38.2	99.8	12.98
14/3/2019	0.05	-0.1	8.52	64.5	123.7	76.3	11.19	

Appendix B-2: Stream Field Data, Blackwater Gold Project, 2017 to 2020

Site	Date	Depth (m)	Temperature (°C)	pH (pH Unit)	Conductivity (µS/cm)	Specific Conductivity (µS/cm)	Dissolved Oxygen Saturation (%)	Dissolved Oxygen (mg/L)
WQ7 (cont'd)	16/5/2018	0.8	4.4	6.83	16.6	27.4	89.4	11.59
	16/9/2019	0.1	7.1	7.14	53.3	89.2	94.4	11.28
	17/10/2017	0.15	4	7.46	44.4	74.5	93.5	12.26
	17/12/2019	0.3	0	7.7	37.6	72.1	95.3	14.07
	17/4/2018	0.15	0.1	7.68	63	120.3	95.3	13.92
	17/7/2018	0.15	13.3	7.77	64.2	82.7	97.8	10.27
	18/3/2020	0.15	0	7.53	63.7	121.9	95.9	14
	18/7/2019	0.3	9.1	7	39.4	66.7	88.2	10.17
	18/8/2020	-	11.1	7.63	52.7	85.3	95.8	10.52
	19/12/2018	1.1	-0.1	7.25	45.9	88	84	12.3
	19/2/2020	0.2	0.1	7.39	57.3	109.3	88.2	12.84
	19/7/2017	0.45	9.42	7.42	57	81	96.7	11.05
	2/6/2020	0.3	5.9	7.96	25.9	40.9	96.4	12.1
	2/9/2020	0.2	10.7	7.45	66.3	91.2	96.8	11.5
	20/5/2020	0.4	4.5	7.58	23	37.7	99.7	12.78
	21/5/2019	0.1	3.4	6.43	21.3	36.1	90.9	12.1
	22/10/2019	0.2	3.3	7.18	37.3	63.8	100.9	13.46
	24/1/2018	0.1	-0.1	7.56	55.8	107	89.3	13.07
	24/10/2018	0.2	1.5	7.33	49.9	90.2	89.1	12.45
	24/8/2020	0.2	9.8	7.51	58.6	82.6	107.9	12.2
	25/11/2019	0.25	0	7.25	29.3	56.1	99.6	14.59
	27/1/2020	0.75	0.1	7.84	48.4	92.7	88.6	13.06
	27/11/2018	0.2	0.5	7.66	38.9	73	89.6	12.89
	27/5/2020	0.45	5.4	7.48	24	38.1	127.2	13.93
	28/2/2018	0.15	-0.04	6.4	-	-	99	14.65
	28/3/2018	0.15	0	7.8	60.2	115.3	100.6	14.75
	28/5/2019	0.1	10.7	7.92	103	141.7	106	11.78
	29/1/2019	0.2	-0.1	7.6	46.8	89.9	84.7	12.39
	29/5/2019	0.2	9.3	6.88	35.9	51.2	94.3	10.83
	30/5/2018	0.4	5	6.97	27.3	43.8	95.7	12.21
30/8/2017	0.2	12.37	7.81	86	113	96	10.16	

Appendix B-2: Stream Field Data, Blackwater Gold Project, 2017 to 2020

Site	Date	Depth (m)	Temperature (°C)	pH (pH Unit)	Conductivity (µS/cm)	Specific Conductivity (µS/cm)	Dissolved Oxygen Saturation (%)	Dissolved Oxygen (mg/L)
WQ7 (cont'd)	4/6/2019	0.3	6.6	7.18	36.7	56.5	111.1	13.62
	5/11/2020	0.2	2.3	7.29	27.2	48.1	91.4	12.55
	5/8/2020	0.25	12.9	7.71	68	88.4	87.8	9.25
	6/10/2020	0.25	9.6	7.19	72.2	102.3	93.5	10.65
	6/4/2020	0.25	0	7.19	62.1	118.9	95	13.85
	6/5/2019	0.35	2.8	6.8	30	51.9	94.5	12.76
	6/7/2020	0.3	10.3	7.59	42.4	68.8	108.3	13.02
	7/11/2017	0.35	0.1	10.87	40.4	74.6	86.9	12.71
	7/5/2020	0.4	3.7	7.93	26.6	44.9	105.4	15.1
	9/4/2019	0.25	-0.1	7.53	54	103.5	106.9	15.52
	9/8/2018	0.4	11.9	7.68	69.1	92.1	93.5	10.09
	9/9/2017	0.1	11.5	7.62	60	81	83.5	9.1
	7/6/2017	0.4	9.12	7.51	21	30	87.8	10.12
WQ8	11/12/2017	0.2	2.54	7.89	89	156	69.9	9.93
	11/5/2017	0.4	6.8	7.83	80.8	-	107.2	-
	11/5/2020	1.1	8.7	7.28	102.5	148.8	91.2	10.62
	12/4/2017	0.2	5.3	8.24	76.6	-	103.8	-
	12/4/2017	0.2	5.3	8.24	76.6	-	103.8	-
	12/8/2019	0.3	19.8	8.92	123.9	137.3	112	10.22
	12/9/2018	0.3	11.7	8.8	107.5	137.3	88.8	9.59
	14/3/2019	0.5	1.5	8.72	82.1	149	59.2	8.31
	15/2/2018	0.2	1.5	7.13	84.2	152.3	74.3	10.36
	16/9/2019	0.6	13.9	8.09	112.9	143.4	77.4	8.45
	17/10/2017	0.6	8.6	7.94	88.6	129.3	88.2	10.18
	17/12/2019	0.3	2.7	7.67	82	142.8	73.3	9.96
	17/4/2018	0.3	2.3	7.66	86.6	152.8	81.1	11.56
	17/7/2018	0.4	18.7	8.59	112.8	128.3	104.7	9.76
	18/3/2020	0.2	2.2	7.5	91.7	162.7	66.2	9.09
	18/7/2019	0.5	16.4	8.38	118.1	141.4	88.5	8.65
19/12/2018	0.4	1.8	7.34	80.6	144.6	64.2	8.91	
19/2/2020	0.4	2.3	7.51	86.3	152.1	74.7	10.18	

Appendix B-2: Stream Field Data, Blackwater Gold Project, 2017 to 2020

Site	Date	Depth (m)	Temperature (°C)	pH (pH Unit)	Conductivity (µS/cm)	Specific Conductivity (µS/cm)	Dissolved Oxygen Saturation (%)	Dissolved Oxygen (mg/L)
WQ8 (cont'd)	19/7/2017	0.7	18.67	8.32	115	131	111	9.44
	2/9/2020	0.2	15.5	8.76	112.4	137.3	116.1	11.59
	22/10/2019	0.35	6.4	7.76	86.8	134.3	96.1	11.69
	23/1/2018	0.15	1.6	7.63	91.7	165.3	83	11.58
	24/10/2018	0.35	7.2	7.49	93.3	141.5	79.1	9.57
	25/11/2019	0.3	3.8	6.31	83.9	141	75.5	10
	27/1/2020	0.3	1.33	7.3	78.6	144	63.1	8.9
	27/11/2018	0.6	4.1	7.46	84	139.8	63	8.23
	27/3/2018	0.3	2.3	7.56	84.7	149.2	91.3	12.44
	29/1/2019	0.3	1.6	7.44	83.2	150.5	69.3	9.69
	3/6/2020	0.3	10.1	8.17	93.1	130.1	100.8	11.35
	30/5/2018	0.5	8.7	7.42	93.3	135.6	78.1	8.97
	30/8/2017	0.4	16.68	7.63	117	140	104.3	10.14
	4/6/2019	0.5	11.2	7.05	104.9	142.5	108	11.8
	5/11/2020	0.2	4.9	7.6	85.9	139.4	87.7	11.25
	5/8/2020	0.3	19.6	9.16	120.3	134.5	101.5	10.82
	5/9/2017	0.3	19.15	8.55	85	96	120.5	11.14
	6/10/2020	0.3	12.5	7.95	109.6	143.9	83.7	8.81
	6/4/2020	0.4	2.4	7.47	85.1	149.6	72.7	9.94
	7/11/2017	0.55	4.7	7.49	90.5	150.1	66.4	8.63
	7/6/2017	0.8	16.7	8.39	87	104	109.1	10.6
	7/7/2020	0.4	15.1	8.52	102.1	126.4	98.7	12.51
	9/4/2019	0.4	4.1	8.14	69.3	120	93.1	12.19
9/8/2018	0.35	17.7	9.02	113.1	130.8	131.1	12.47	
WQ9	10/8/2020	0.5	15.6	8.65	104.8	127.8	102.8	12.3
	11/12/2017	0.3	1.37	7.85	77	144	73.5	10.33
	11/5/2017	0.4	6.6	7.81	73.3	-	108.3	-
	12/4/2017	0.1	3.7	7.92	71.1	-	95.4	-
	12/4/2017	0.1	3.7	7.92	71.1	-	95.4	-
	12/9/2018	0.3	9.3	7.83	93.8	184.4	83.1	9.56
	13/2/2018	0.6	0	7.17	77.5	148.2	79.8	11.66

Appendix B-2: Stream Field Data, Blackwater Gold Project, 2017 to 2020

Site	Date	Depth (m)	Temperature (°C)	pH (pH Unit)	Conductivity (µS/cm)	Specific Conductivity (µS/cm)	Dissolved Oxygen Saturation (%)	Dissolved Oxygen (mg/L)
WQ9 (cont'd)	13/2/2019	0.2	0	6.59	78	149	97.4	12.25
	13/5/2020	0.5	9.1	7.93	77.1	110.8	97	11.19
	14/3/2019	0.05	1.1	8.82	81.7	150	71.2	10.09
	14/5/2019	0.8	8.4	7.68	75.2	110.2	98.9	11.59
	16/5/2018	0.6	9.8	7.68	73.8	100.5	91	10.32
	16/9/2019	0.8	11.4	7.95	99.4	133.4	92.6	10.18
	17/10/2017	0.5	5.9	7.67	69.1	108.9	87.5	10.91
	17/12/2019	0.6	1.4	7.8	68.6	125.1	87	12.2
	17/4/2018	0.3	3.5	7.79	90.1	153.1	97.1	12.88
	17/7/2018	0.6	16.6	8	100.8	120	92.7	9.02
	17/8/2020	0.5	17	8.53	109	128.9	102	9.97
	18/3/2020	0.4	1.6	7.58	86.9	156.7	94.2	13.14
	18/7/2019	0.8	14.4	7.93	97.9	122.7	89.7	9.12
	19/12/2018	1	0.7	7.37	73	135.8	75.7	10.82
	19/7/2017	0.55	15.08	7.14	100	124	100.8	10.13
	2/6/2020	0.7	9.1	7.87	77.3	110.8	99.8	11.7
	2/9/2020	0.8	14.1	8.12	102.3	129.2	107.2	11.2
	20/2/2020	0.2	2.3	7.87	81.5	144	83.4	11.42
	20/5/2020	1	7.9	7.94	67.5	100.1	95.7	11.35
	22/10/2019	1	5.3	7.3	71.3	114.5	102.5	12.95
	23/1/2018	0.4	0	7.15	89	170.4	89.1	12.99
	24/10/2018	0.6	5.8	7.74	81.7	128.9	89.1	11.19
	24/8/2020	0.5	14.4	8.6	98.6	123.5	115	11.9
	25/11/2019	0.5	1.9	7.06	-	-	87.7	12.15
	27/1/2020	0.5	1.2	7.43	74.3	136.3	84.4	11.92
	27/11/2018	1	2.8	7.4	70.6	122.9	75.7	10.22
	27/5/2020	1.5	8.6	7.8	76.3	111.1	93.1	10.88
	28/3/2018	0.4	3.4	7.78	87.6	149	96.2	12.83
	29/1/2019	0.4	0.3	7.69	78.9	149.3	80.3	11.63
	30/5/2018	0.6	9.1	7.52	82.1	118	92.2	10.62
30/8/2017	0.4	15.03	7.76	112	139	101.7	10.23	

Appendix B-2: Stream Field Data, Blackwater Gold Project, 2017 to 2020

Site	Date	Depth (m)	Temperature (°C)	pH (pH Unit)	Conductivity (µS/cm)	Specific Conductivity (µS/cm)	Dissolved Oxygen Saturation (%)	Dissolved Oxygen (mg/L)
WQ9 (cont'd)	4/6/2019	0.8	10.8	8.05	93	127.4	120.1	12.91
	5/11/2020	0.4	3.4	7.36	60	102.2	81.7	10.87
	5/8/2020	0.5	17.9	8.98	111.5	129.1	108.4	10.26
	6/10/2020	0.5	11.9	7.95	101.2	134.9	99.3	10.61
	6/4/2020	0.3	2.1	7.22	82.7	147.1	87.9	12.13
	6/7/2020	0.7	13.6	7.97	87.4	111.4	92.3	9.51
	7/11/2017	0.45	1.4	6.88	70.8	128.7	80.2	11.28
	7/5/2020	0.6	6.9	8.17	75.4	115.3	106.3	12.96
	7/6/2017	1	15.84	8.09	72	88	100	9.91
	7/9/2019	0.8	15	7.41	100.7	123.8	88.1	8.85
	9/4/2019	0.5	2.8	7.7	70.2	121.8	102.1	13.82
	9/8/2018	0.4	15.6	8.09	104.7	127.6	88.5	8.81
	9/9/2017	0.4	15.79	8.18	81	100	91.4	9.16

Note:

"-" indicates parameter was not analyzed.

APPENDIX C MONTHLY MEAN WATER QUALITY GRAPHS, BLACKWATER GOLD PROJECT STREAMS, 2011 TO 2020

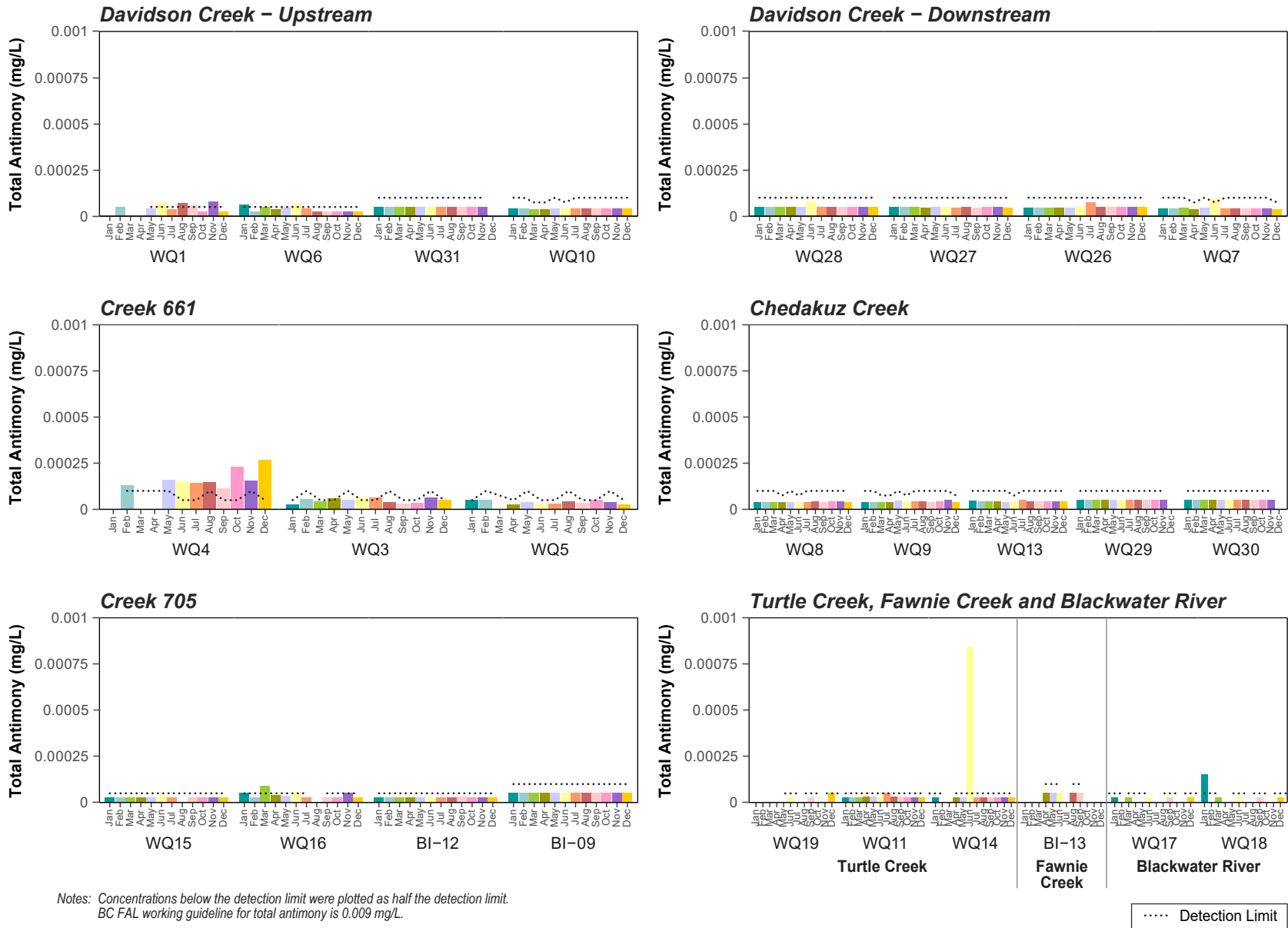


Figure C-1: Monthly Mean Total Antimony Concentrations, Blackwater Gold Project Streams, 2011 to 2020

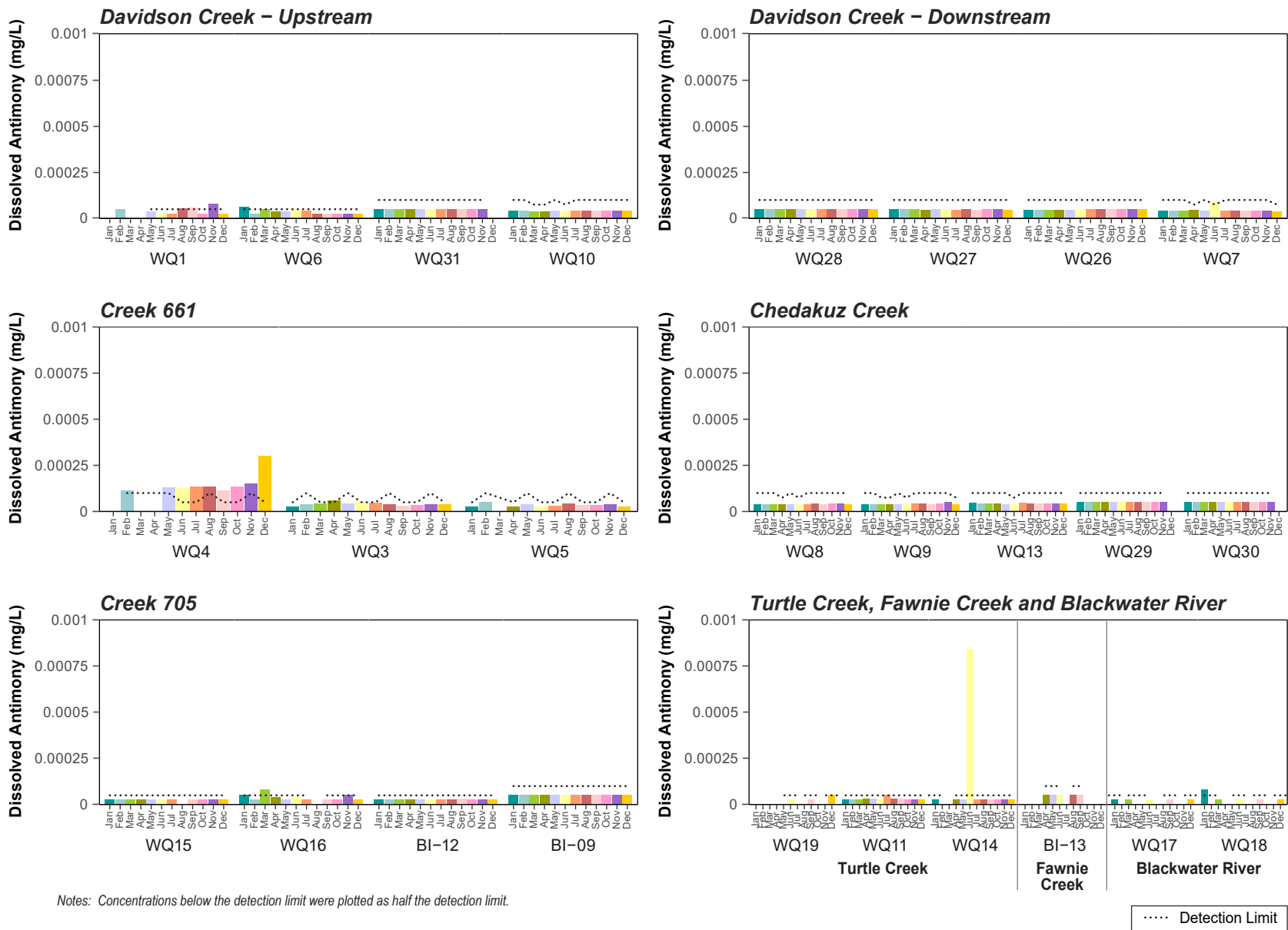


Figure C-2: Monthly Mean Dissolved Antimony Concentrations, Blackwater Gold Project Streams, 2011 to 2020

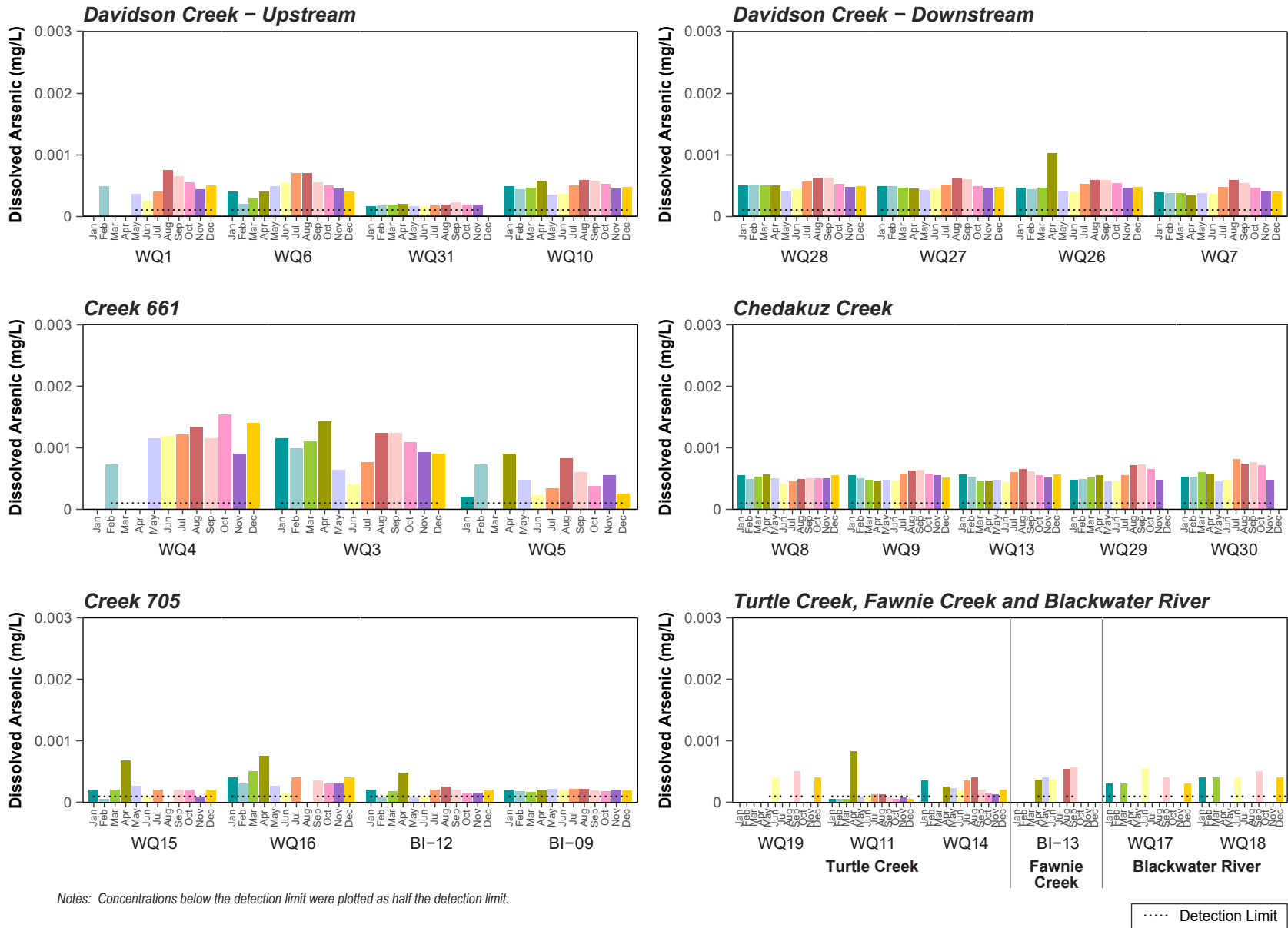


Figure C-3: Monthly Mean Dissolved Arsenic Concentrations, Blackwater Gold Project Streams, 2011 to 2020

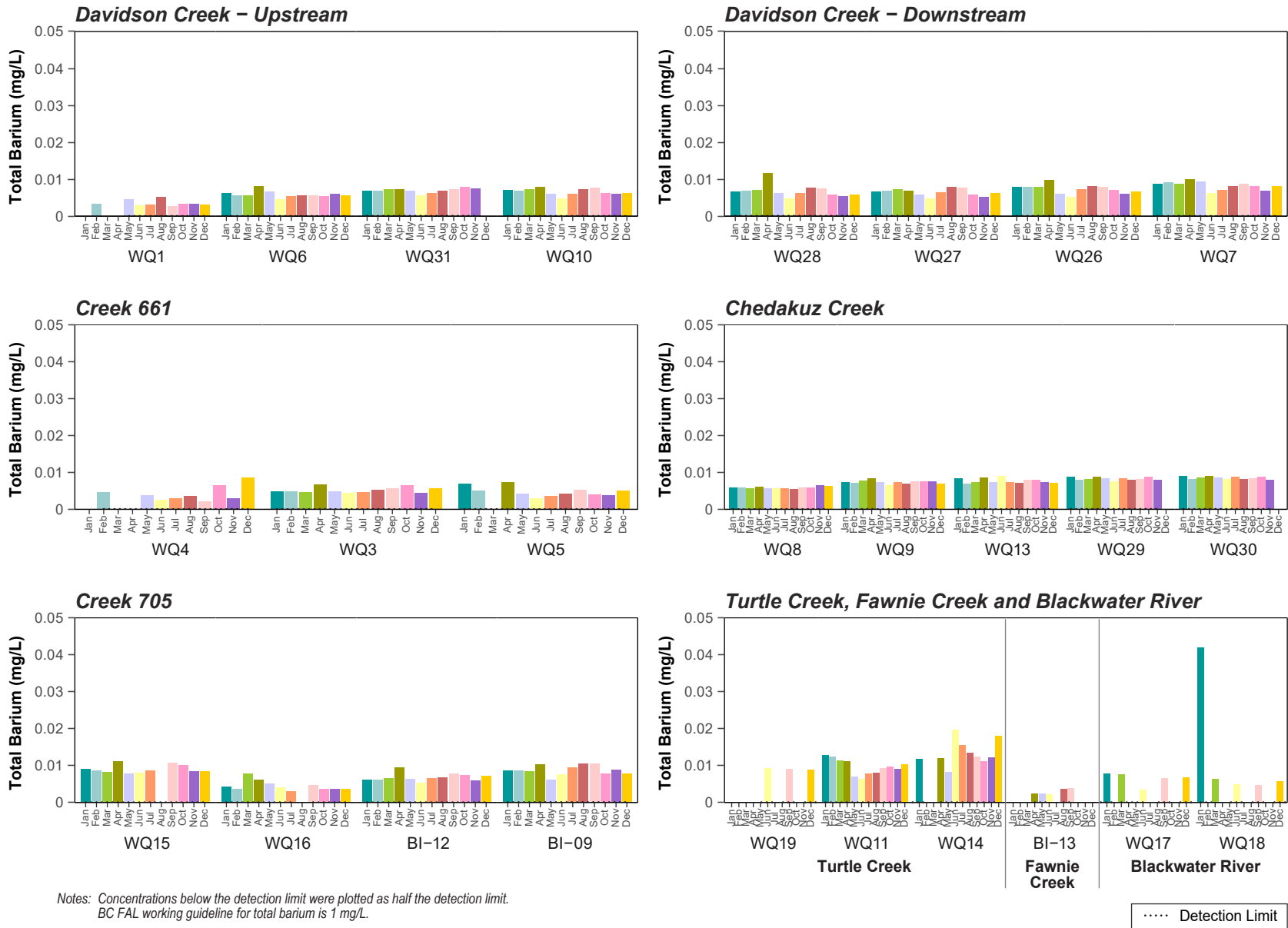


Figure C-4: Monthly Mean Total Barium Concentrations, Blackwater Gold Project Streams, 2011 to 2020

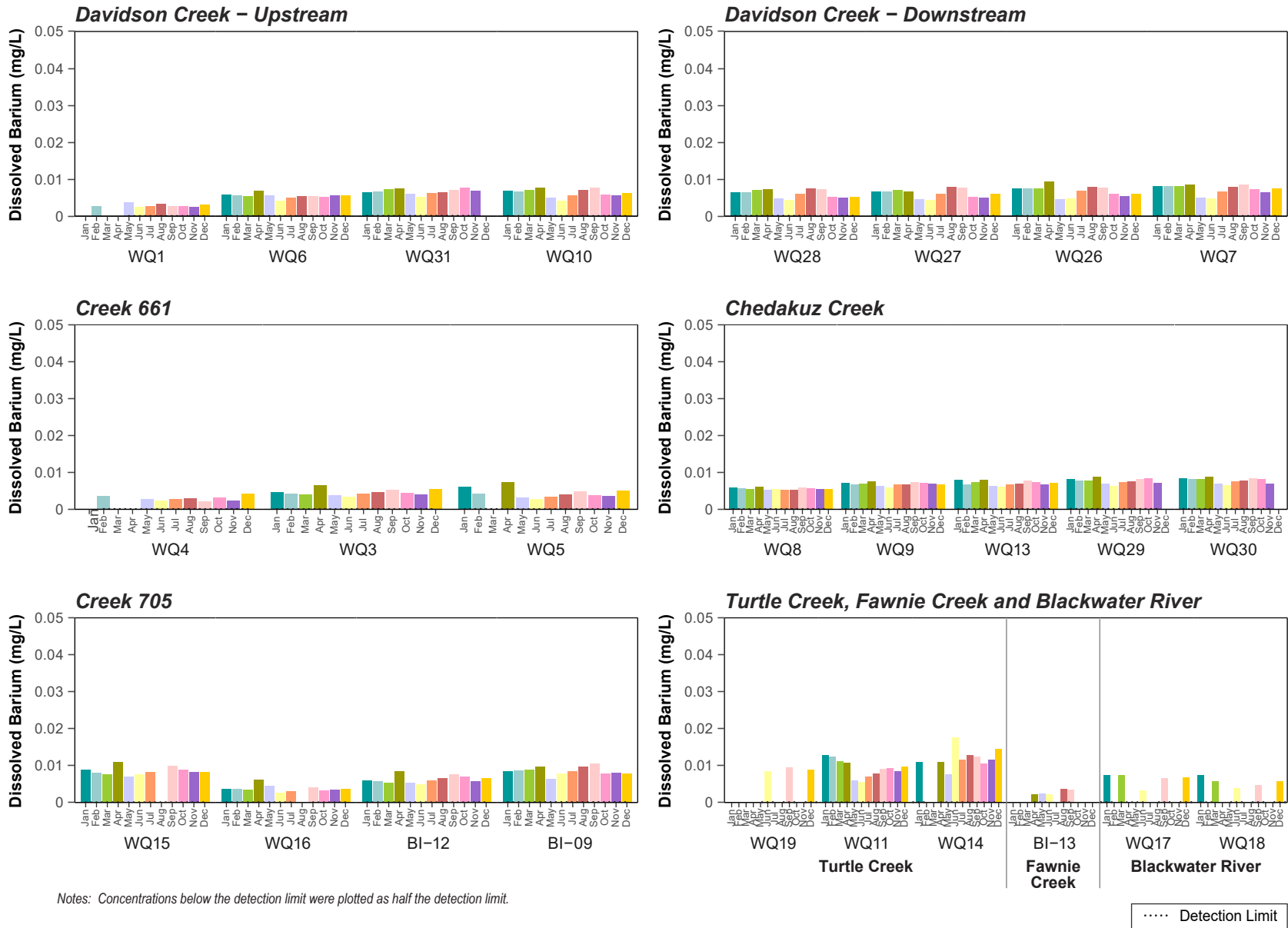


Figure C-5: Monthly Mean Dissolved Barium Concentrations, Blackwater Gold Project Streams, 2011 to 2020

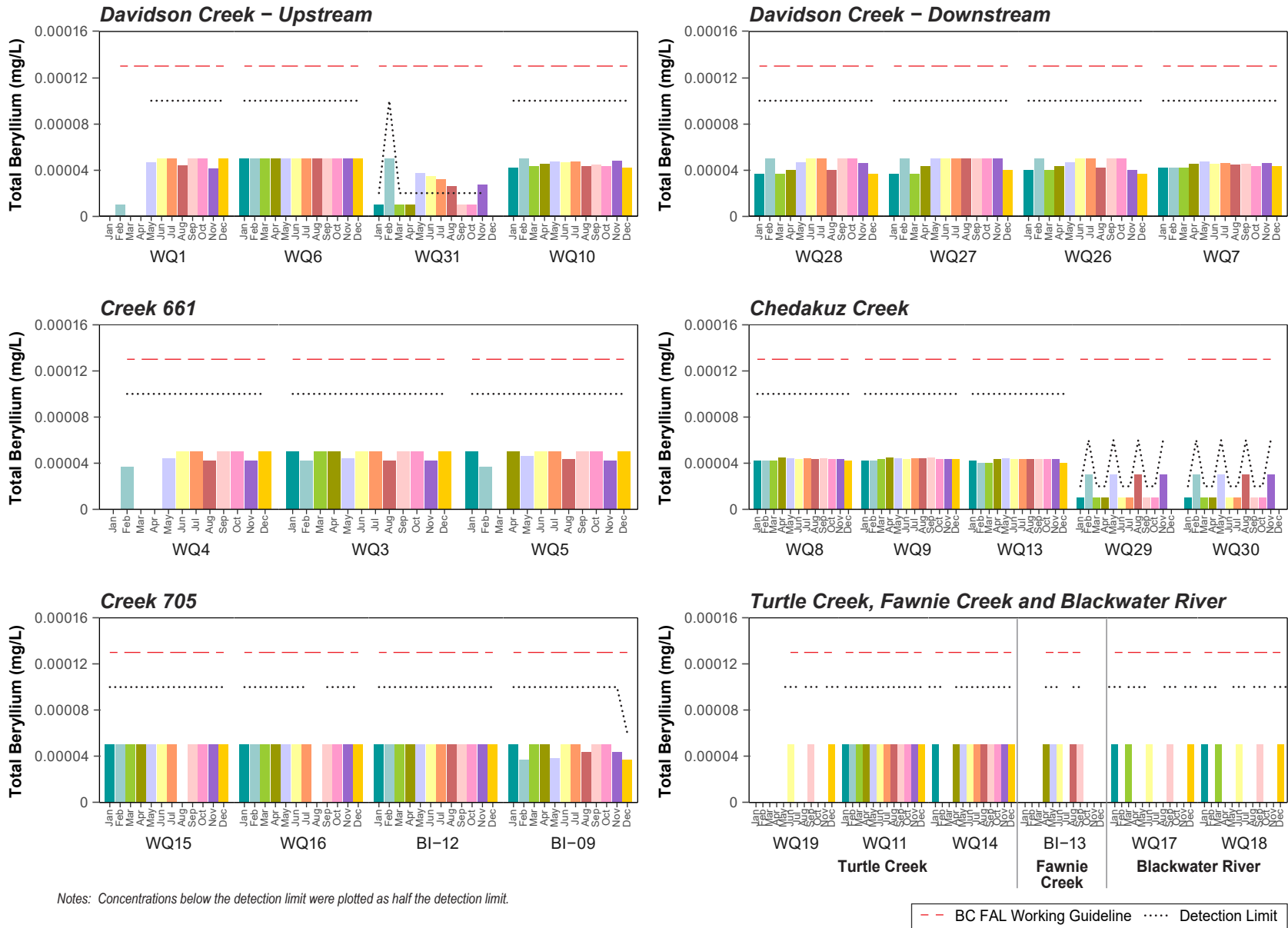


Figure C-6: Monthly Mean Total Beryllium Concentrations, Blackwater Gold Project Streams, 2011 to 2020

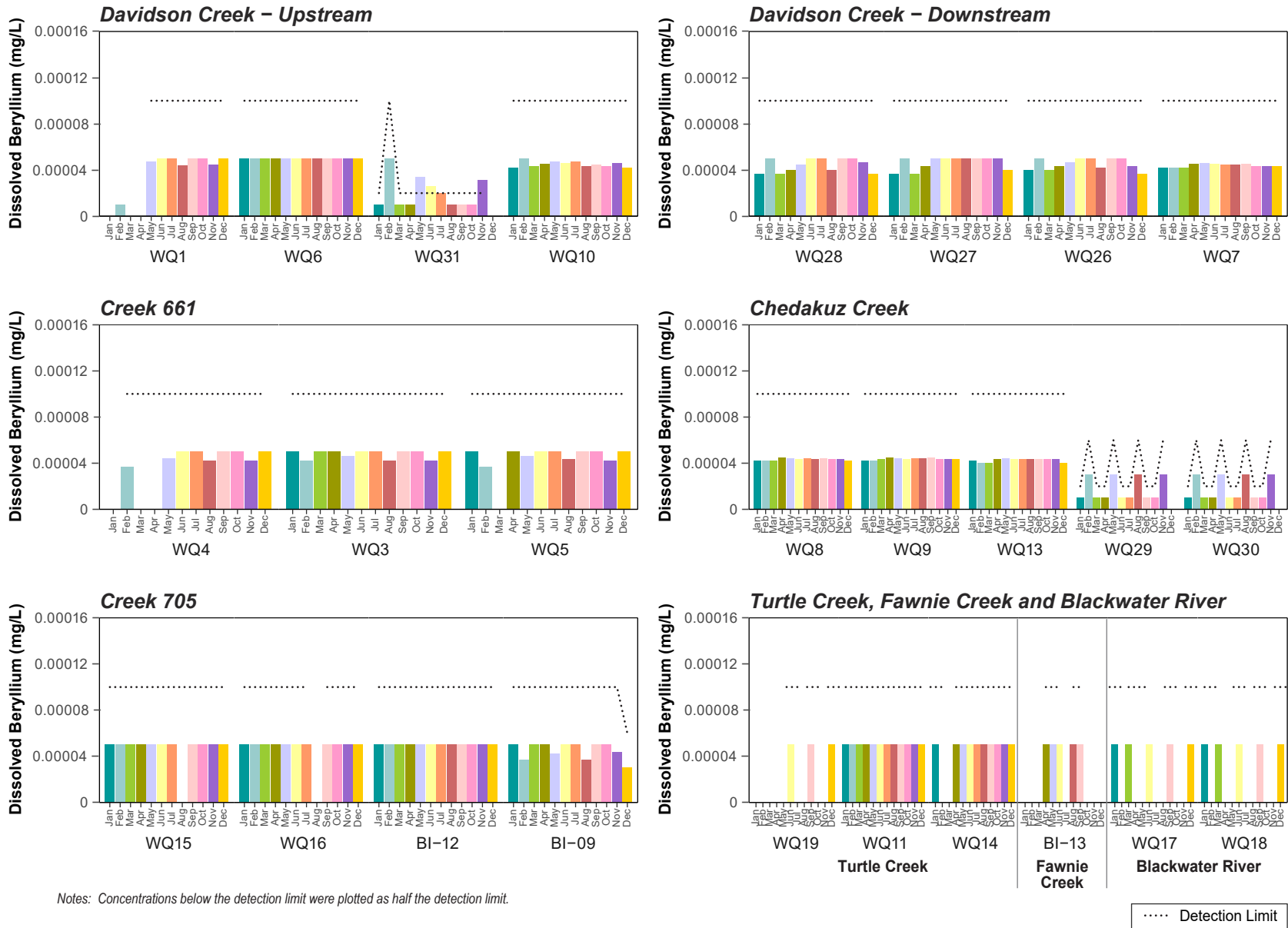


Figure C-7: Monthly Mean Dissolved Beryllium Concentrations, Blackwater Gold Project Streams, 2011 to 2020

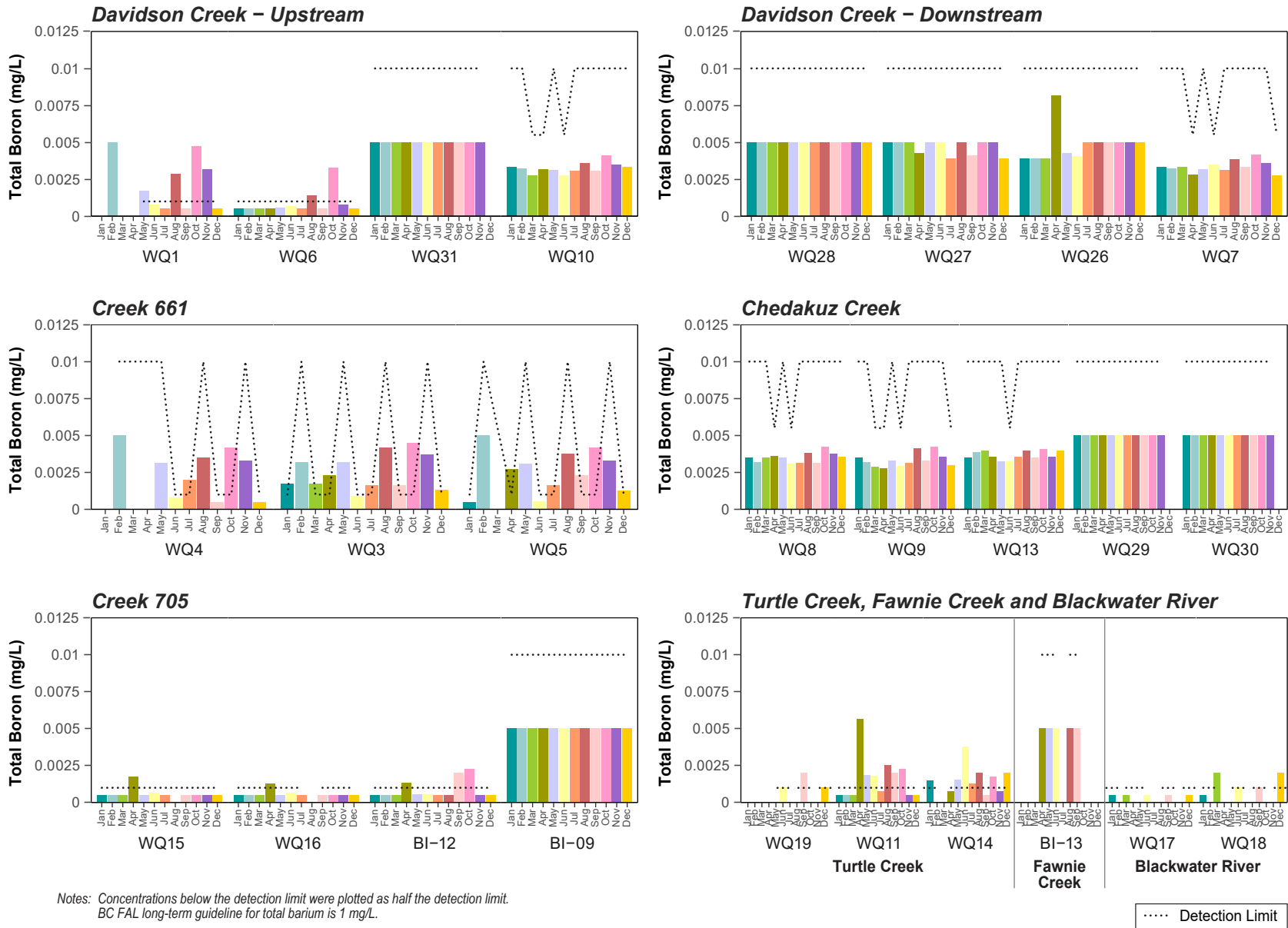
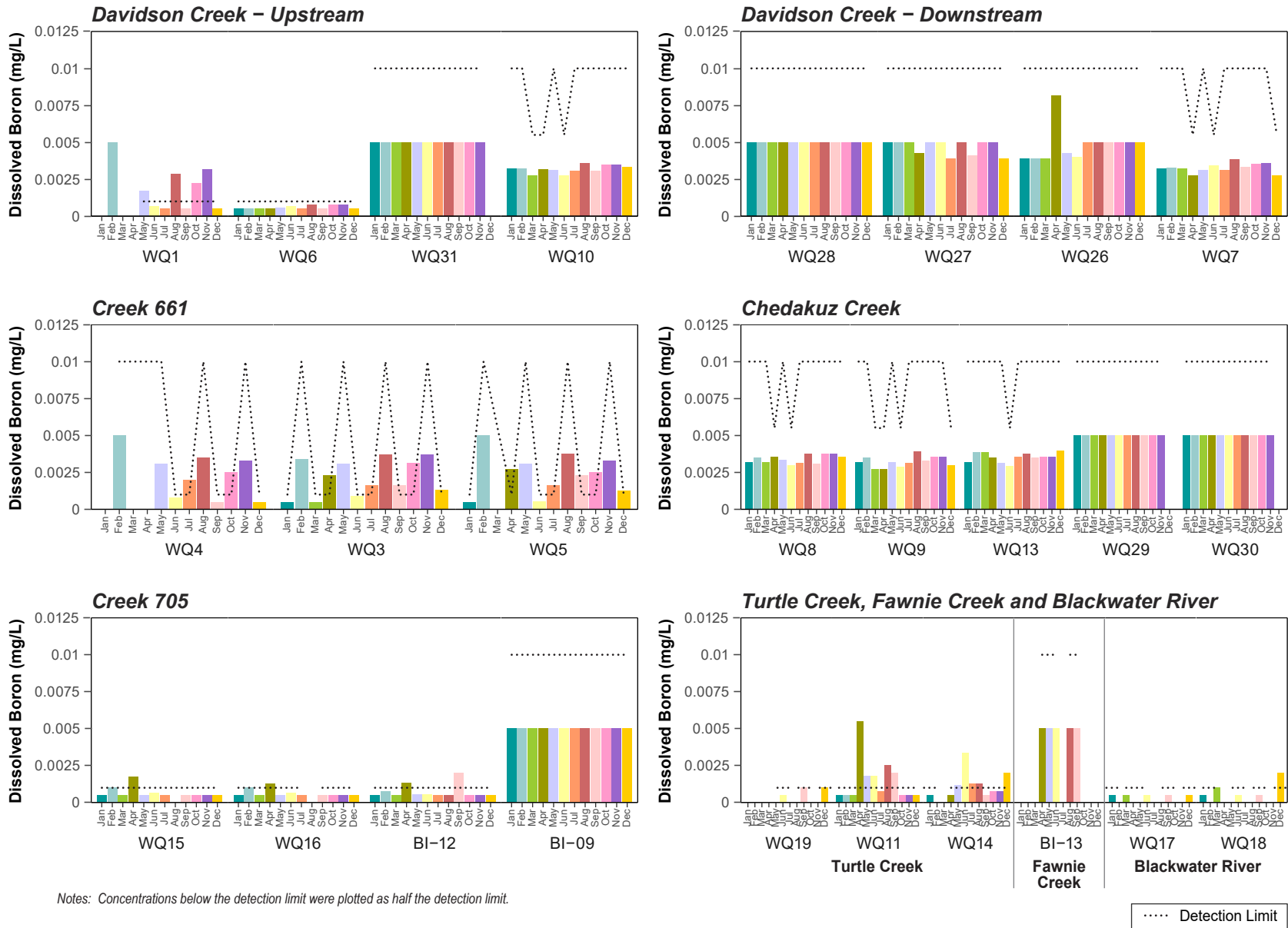


Figure C-8: Monthly Mean Total Boron Concentrations, Blackwater Gold Project Streams, 2011 to 2020



Notes: Concentrations below the detection limit were plotted as half the detection limit.

Figure C-9: Monthly Mean Dissolved Boron Concentrations, Blackwater Gold Project Streams, 2011 to 2020

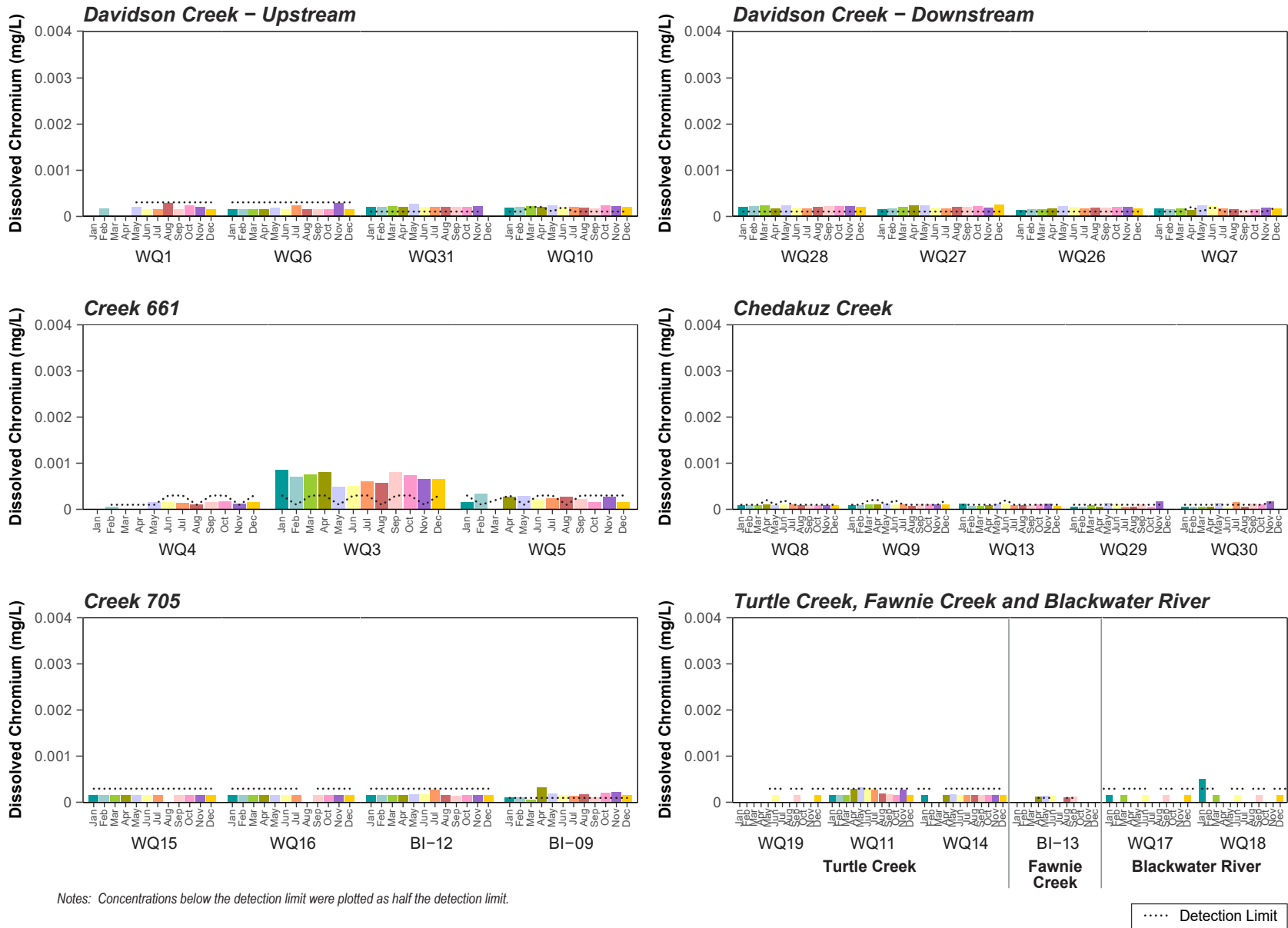
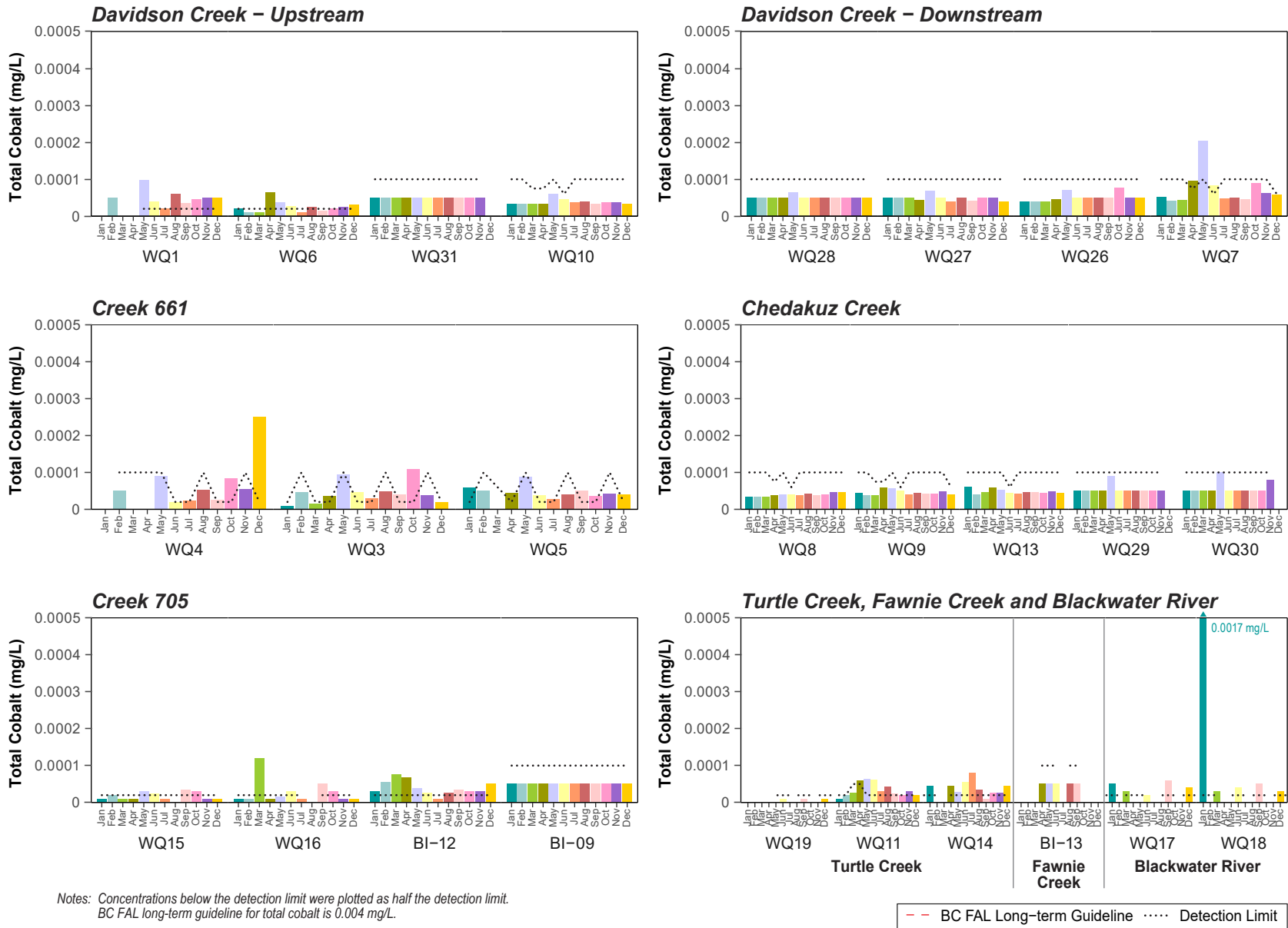


Figure C-10: Monthly Mean Dissolved Chromium Concentrations, Blackwater Gold Project Streams, 2011 to 2020



Notes: Concentrations below the detection limit were plotted as half the detection limit.
 BC FAL long-term guideline for total cobalt is 0.0004 mg/L.

Figure C-11: Monthly Mean Total Cobalt Concentrations, Blackwater Gold Project Streams, 2011 to 2020

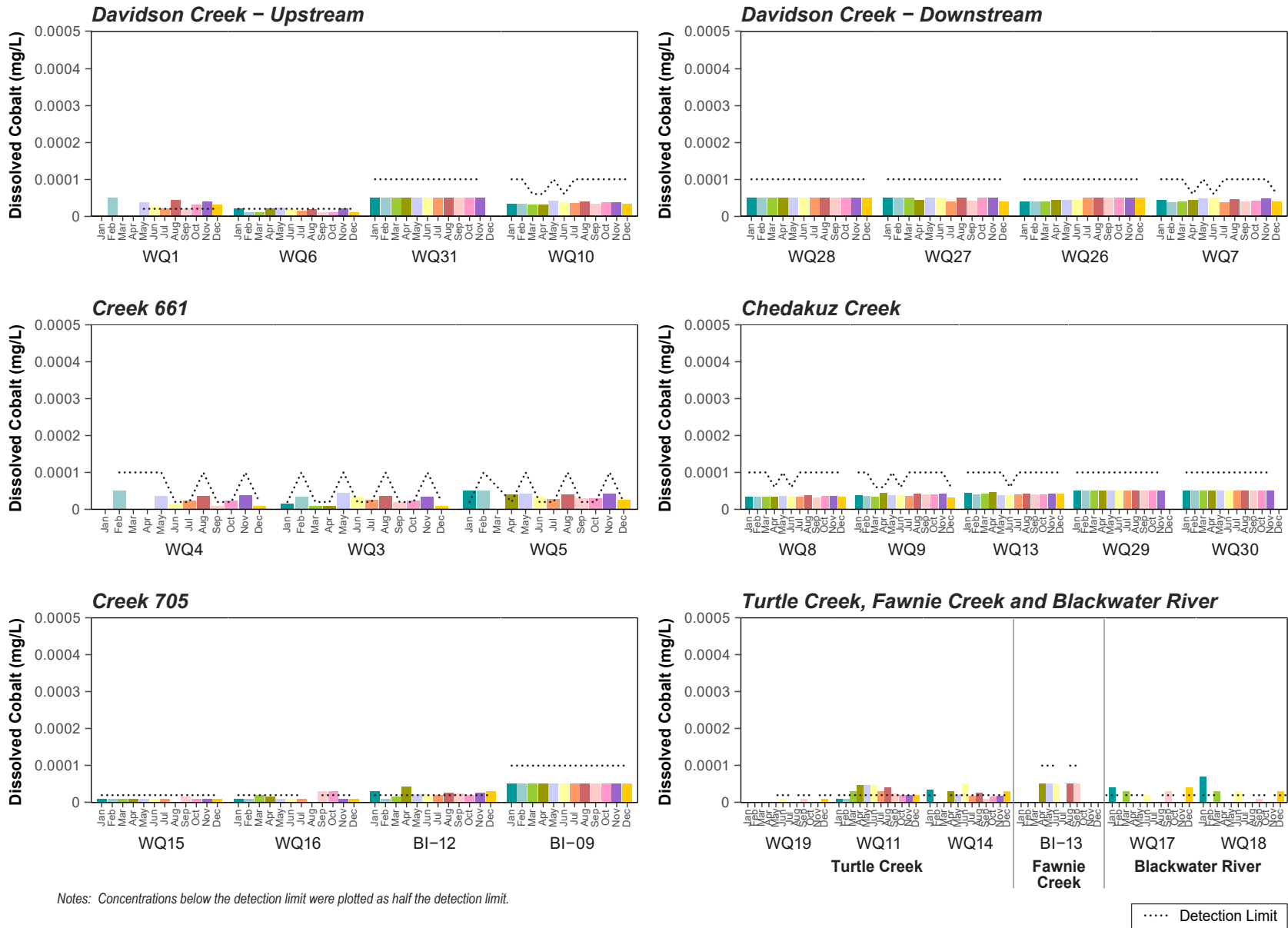


Figure C-12: Monthly Mean Dissolved Cobalt Concentrations, Blackwater Gold Project Streams, 2011 to 2020

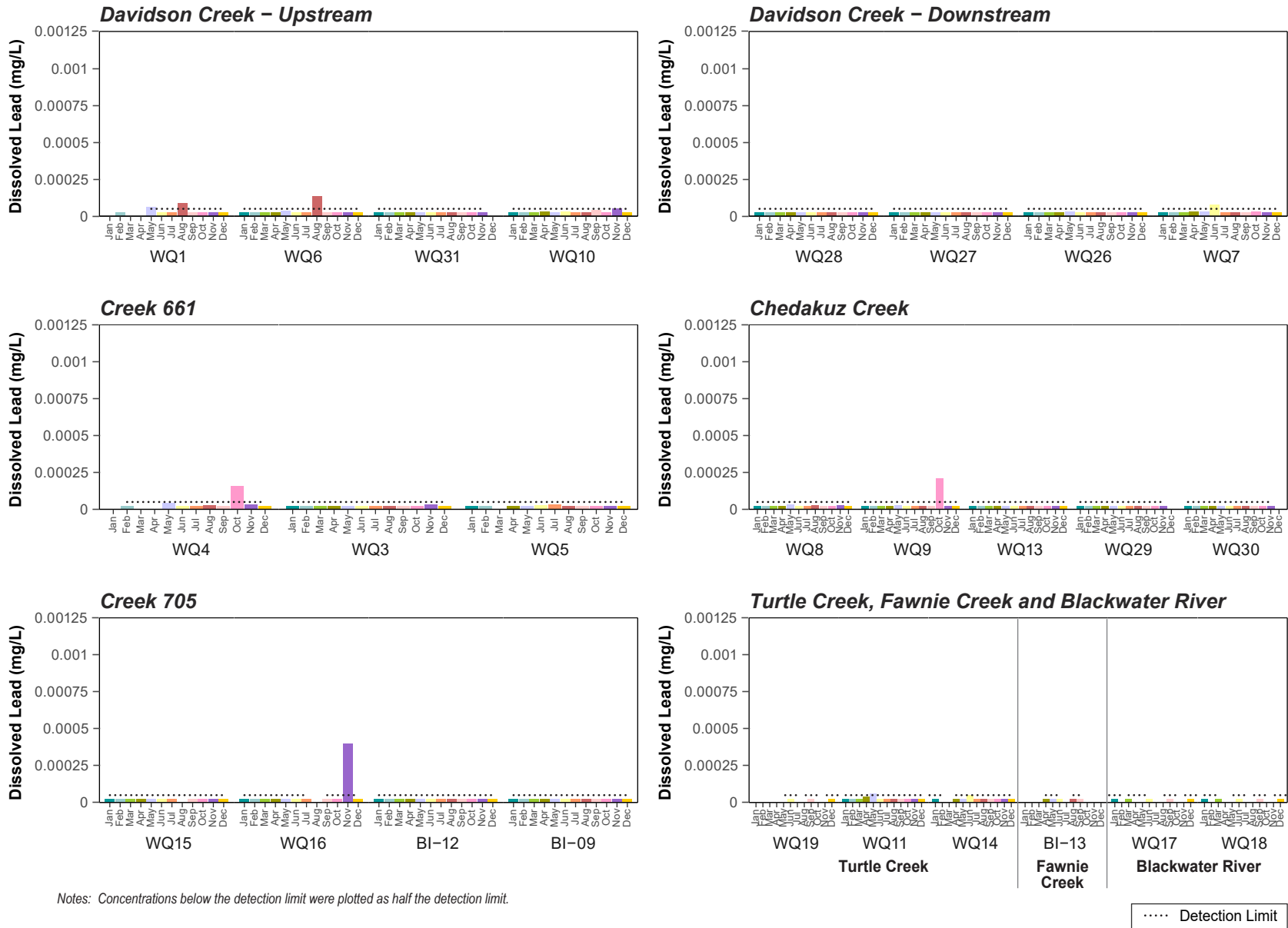
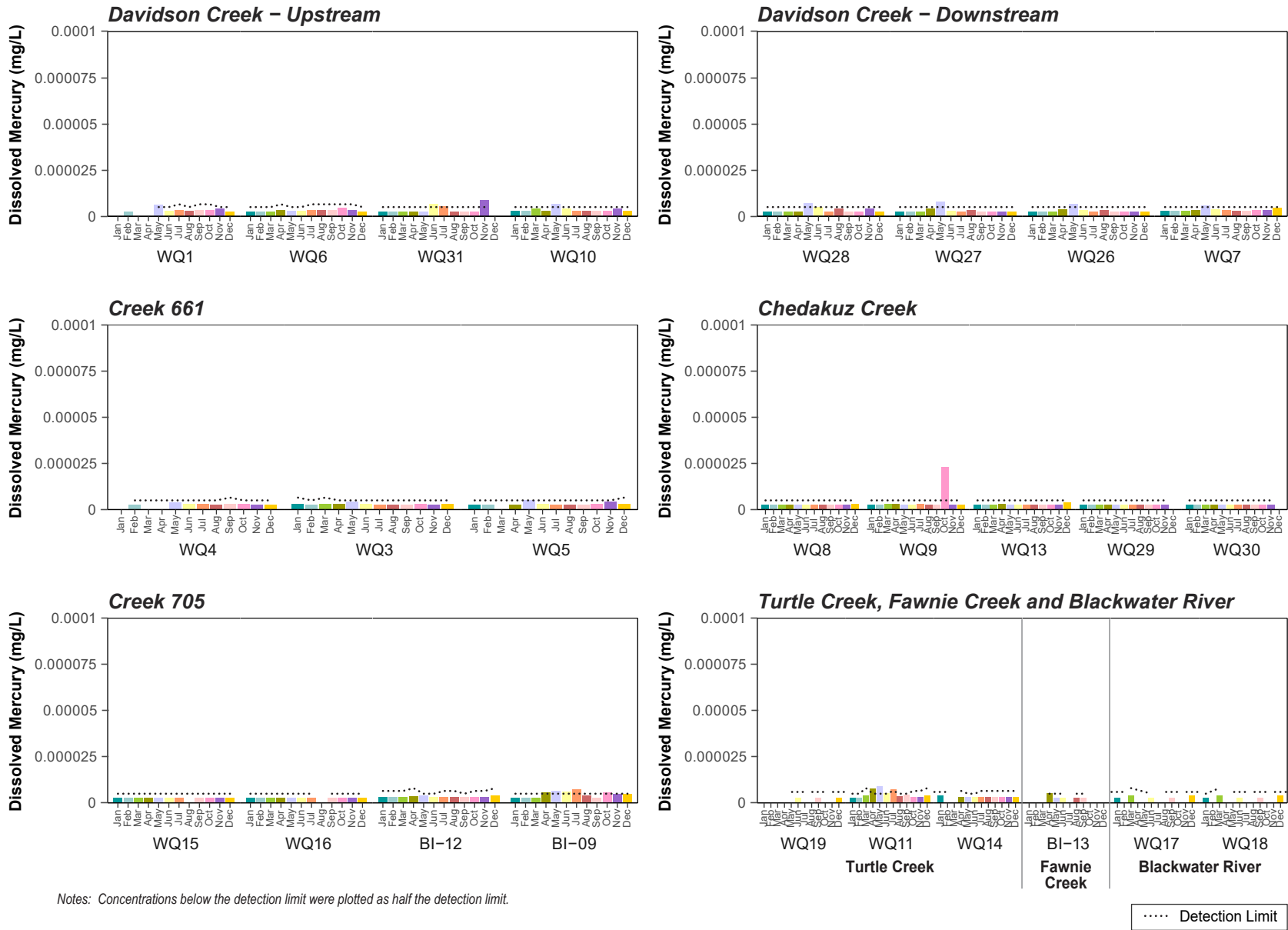


Figure C-13: Monthly Mean Dissolved Lead Concentrations, Blackwater Gold Project Streams, 2011 to 2020



Notes: Concentrations below the detection limit were plotted as half the detection limit.

Figure C-14: Monthly Mean Dissolved Mercury Concentrations, Blackwater Gold Project Streams, 2011 to 2020

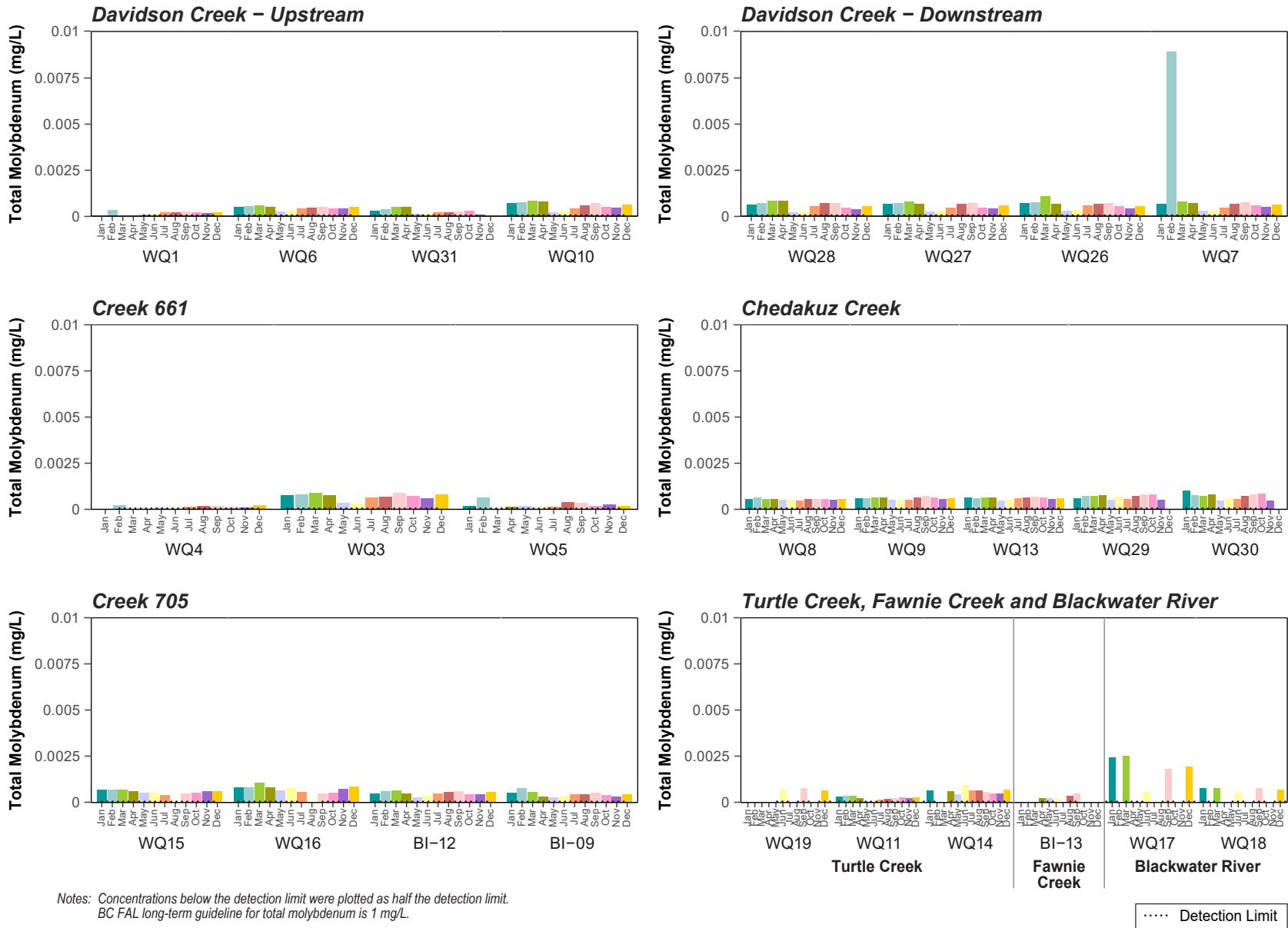
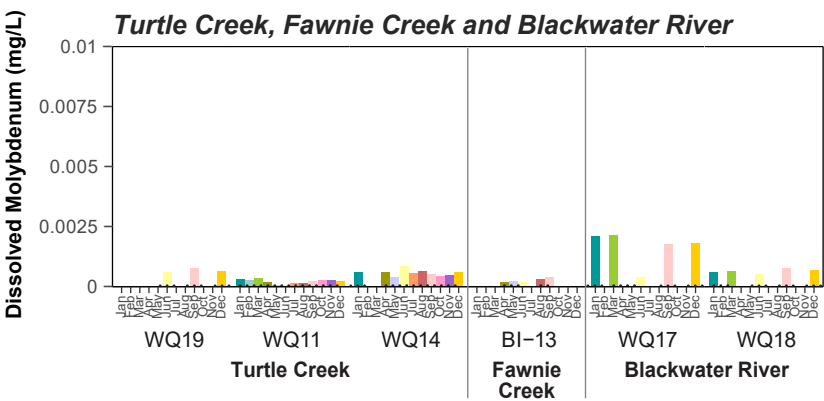
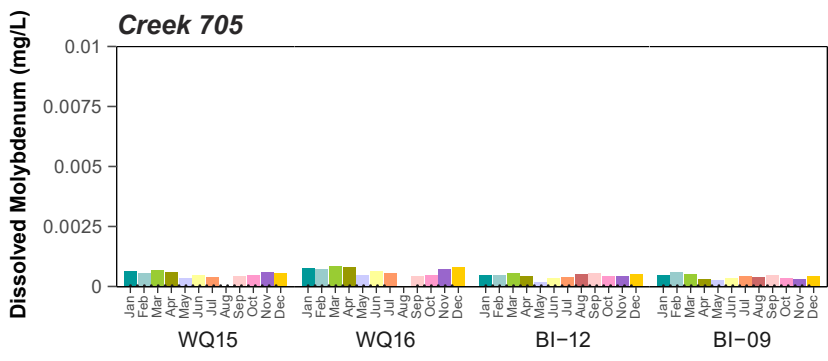
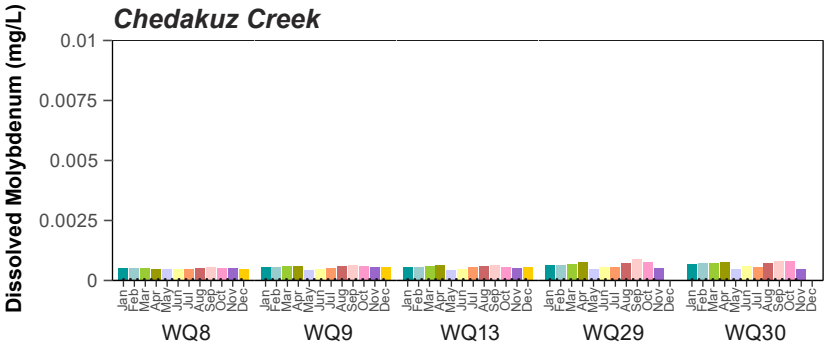
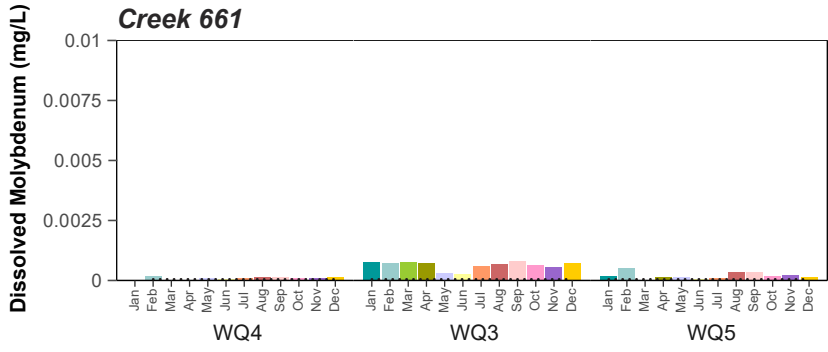
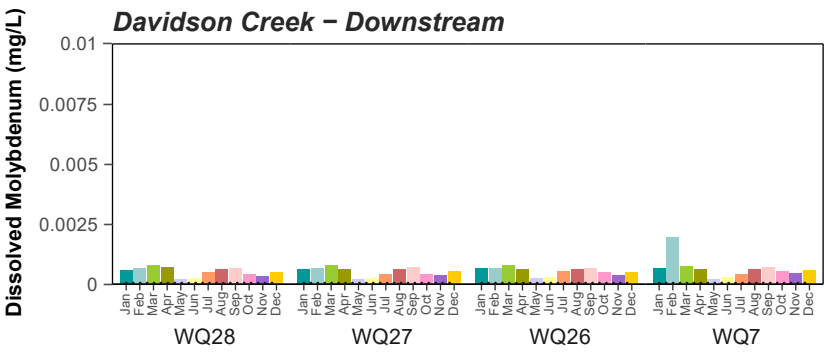
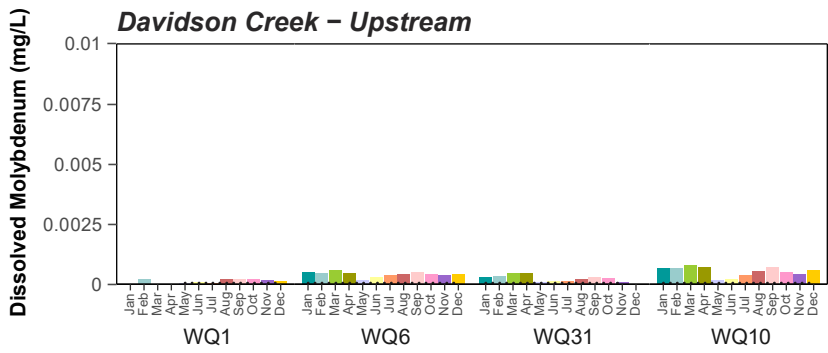


Figure C-15: Monthly Mean Total Molybdenum Concentrations, Blackwater Gold Project Streams, 2011 to 2020



Notes: Concentrations below the detection limit were plotted as half the detection limit.

..... Detection Limit

Figure C-16: Monthly Mean Dissolved Molybdenum Concentrations, Blackwater Gold Project Streams, 2011 to 2020

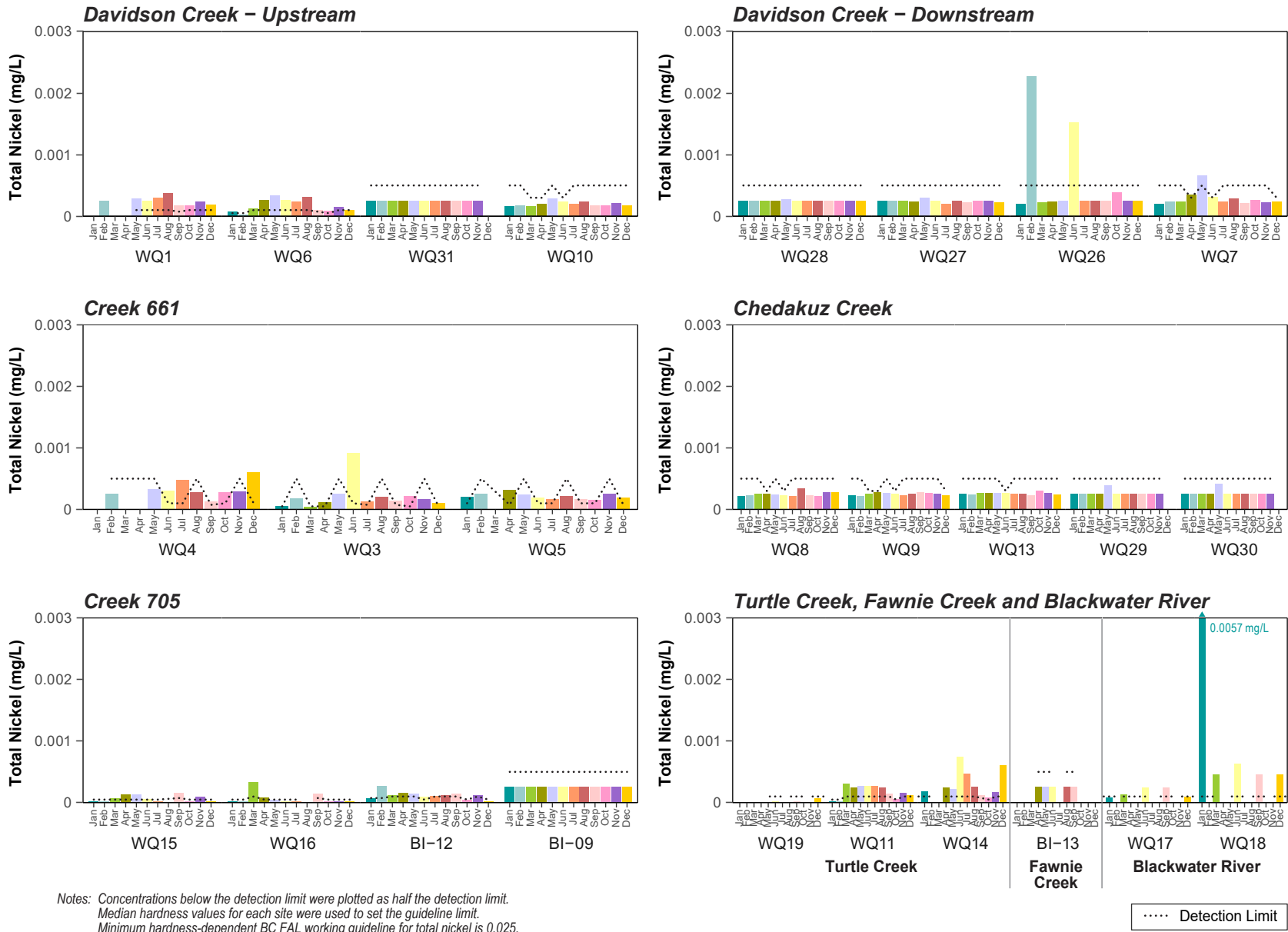


Figure C-17: Monthly Mean Total Nickel Concentrations, Blackwater Gold Project Streams, 2011 to 2020

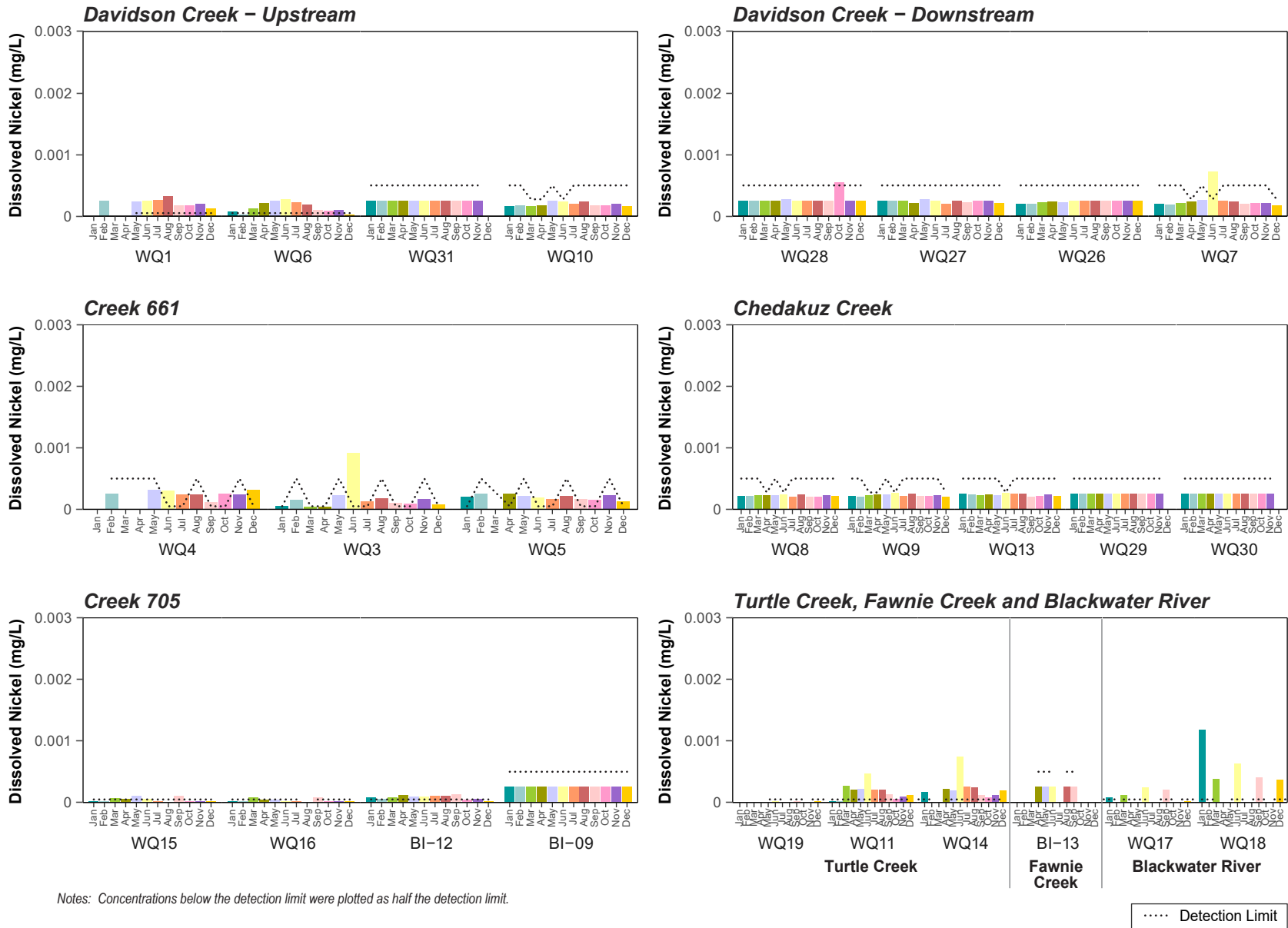


Figure C-18: Monthly Mean Dissolved Nickel Concentrations, Blackwater Gold Project Streams, 2011 to 2020

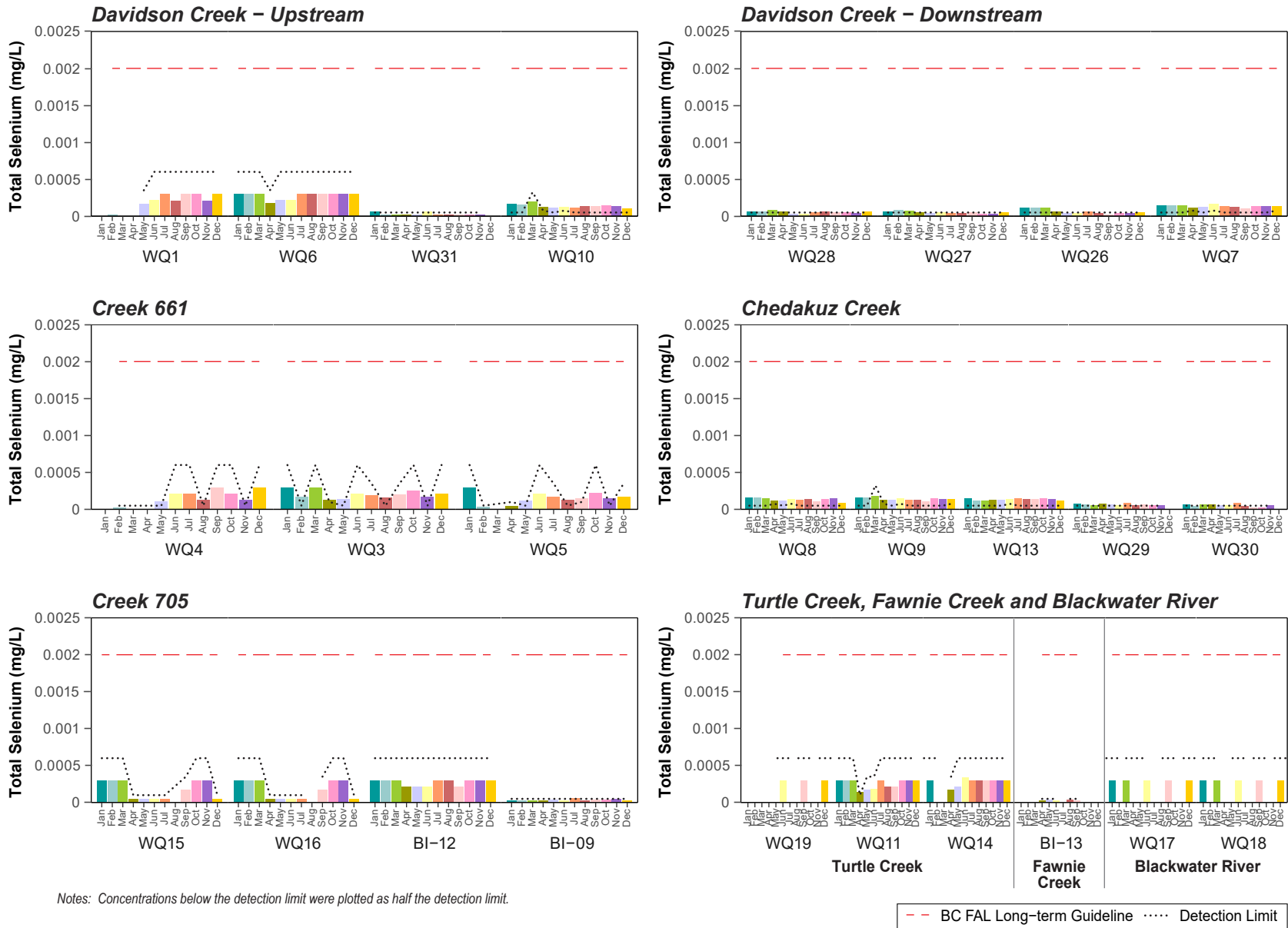


Figure C-19: Monthly Mean Total Selenium Concentrations, Blackwater Gold Project Streams, 2011 to 2020

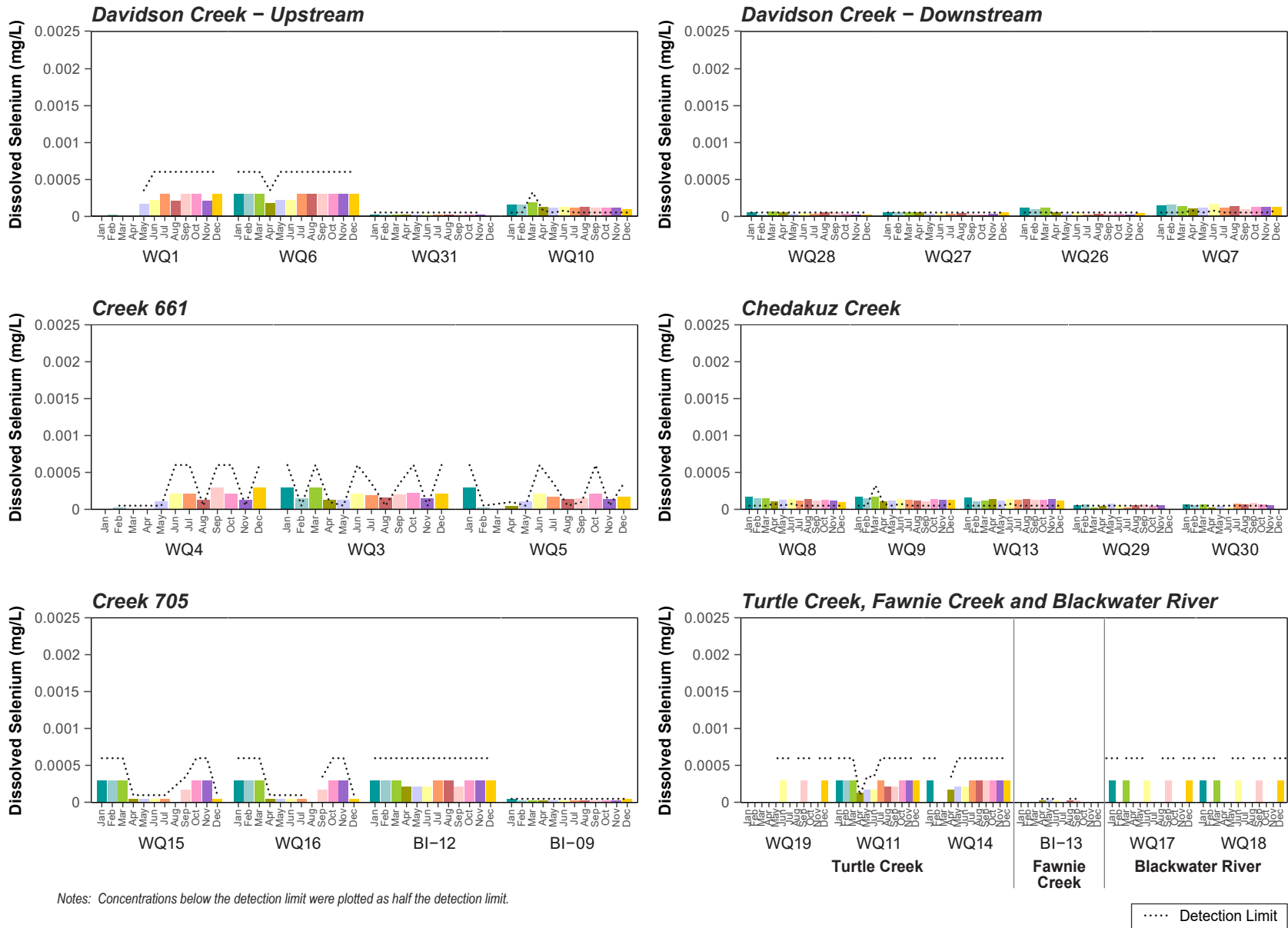


Figure C-20: Monthly Mean Dissolved Selenium Concentrations, Blackwater Gold Project Streams, 2011 to 2020

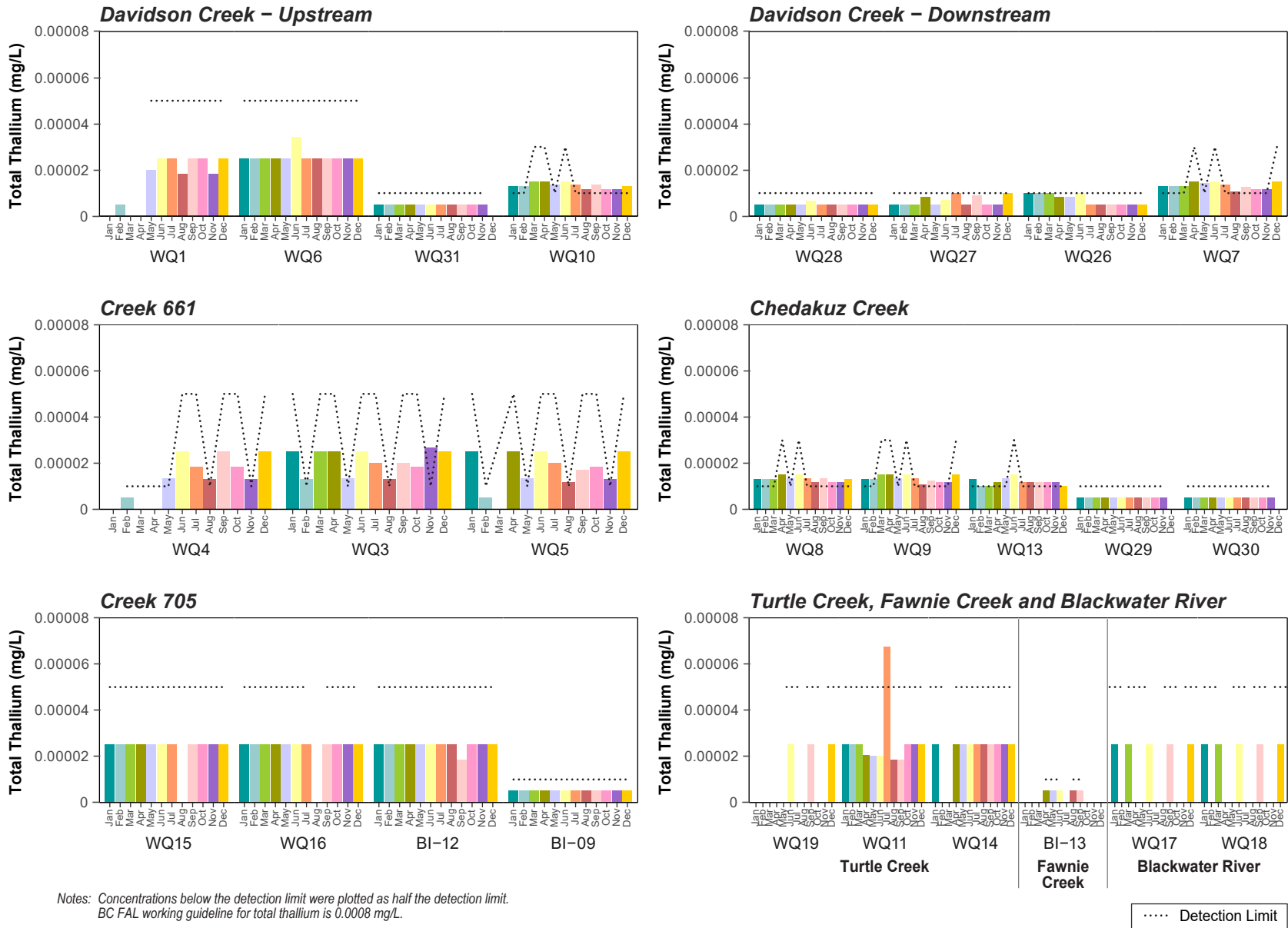


Figure C-21: Monthly Mean Total Thallium Concentrations, Blackwater Gold Project Streams, 2011 to 2020

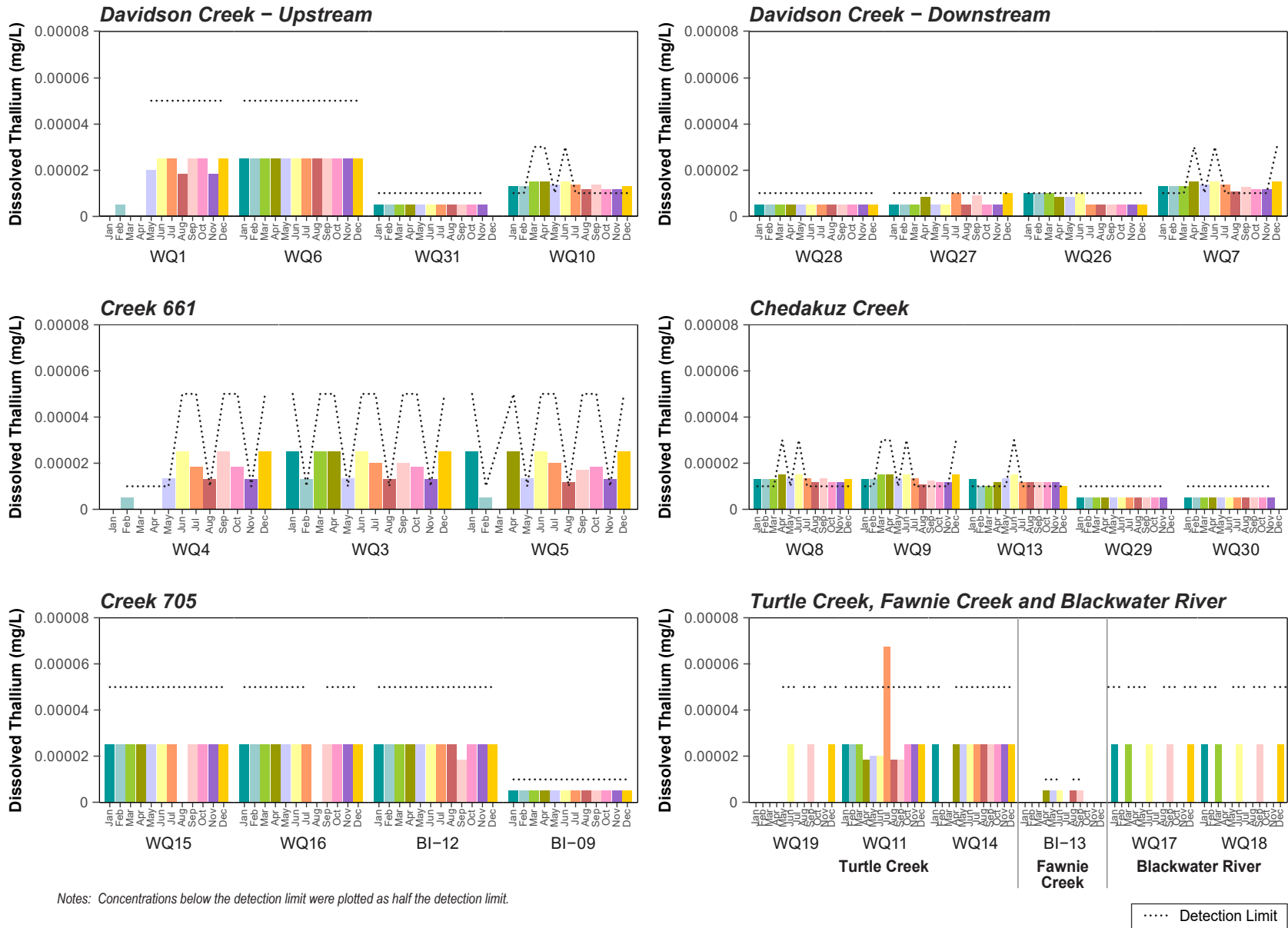


Figure C-22: Monthly Mean Dissolved Thallium Concentrations, Blackwater Gold Project Streams, 2011 to 2020

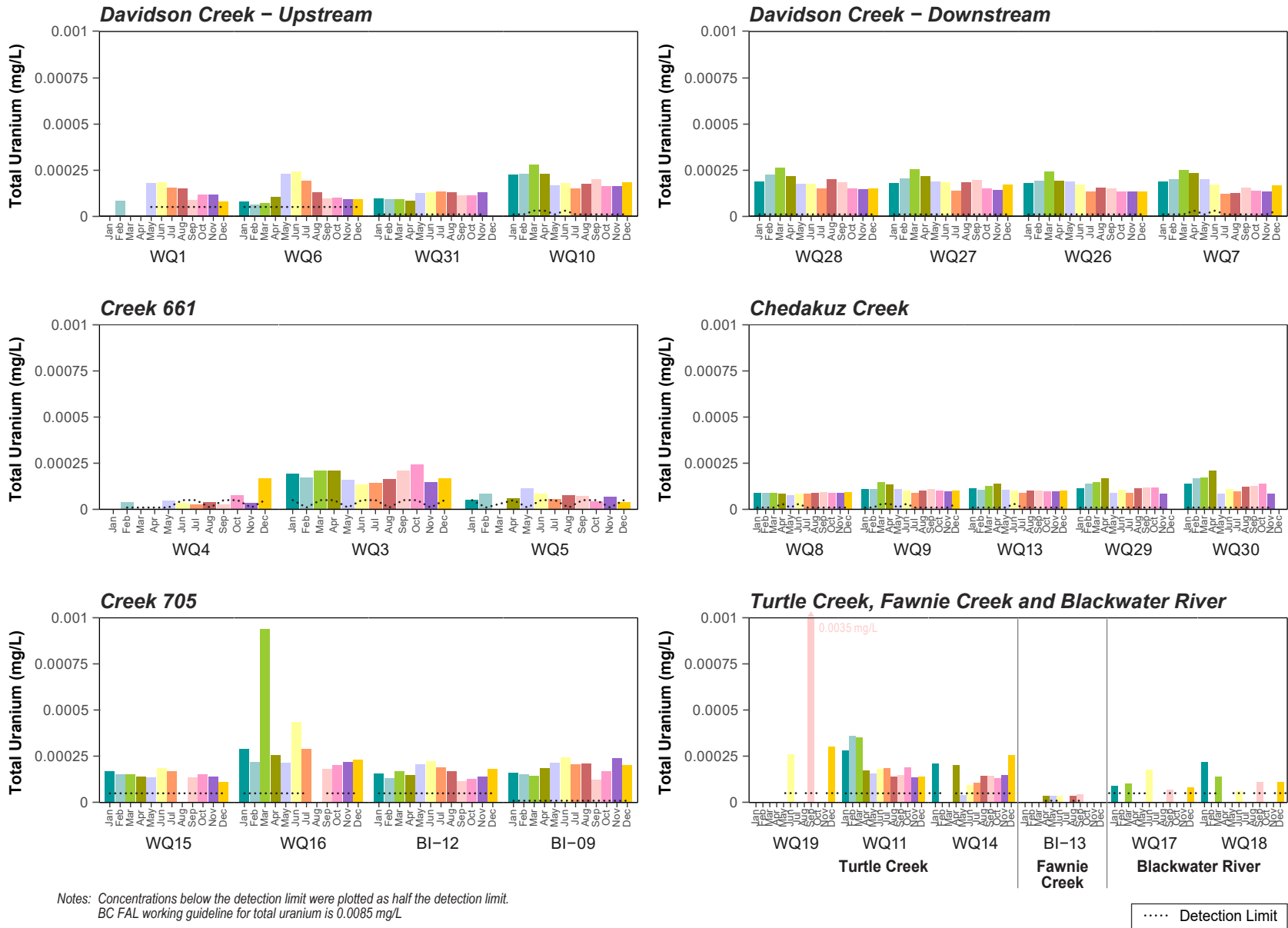


Figure C-23: Monthly Mean Total Uranium Concentrations, Blackwater Gold Project Streams, 2011 to 2020

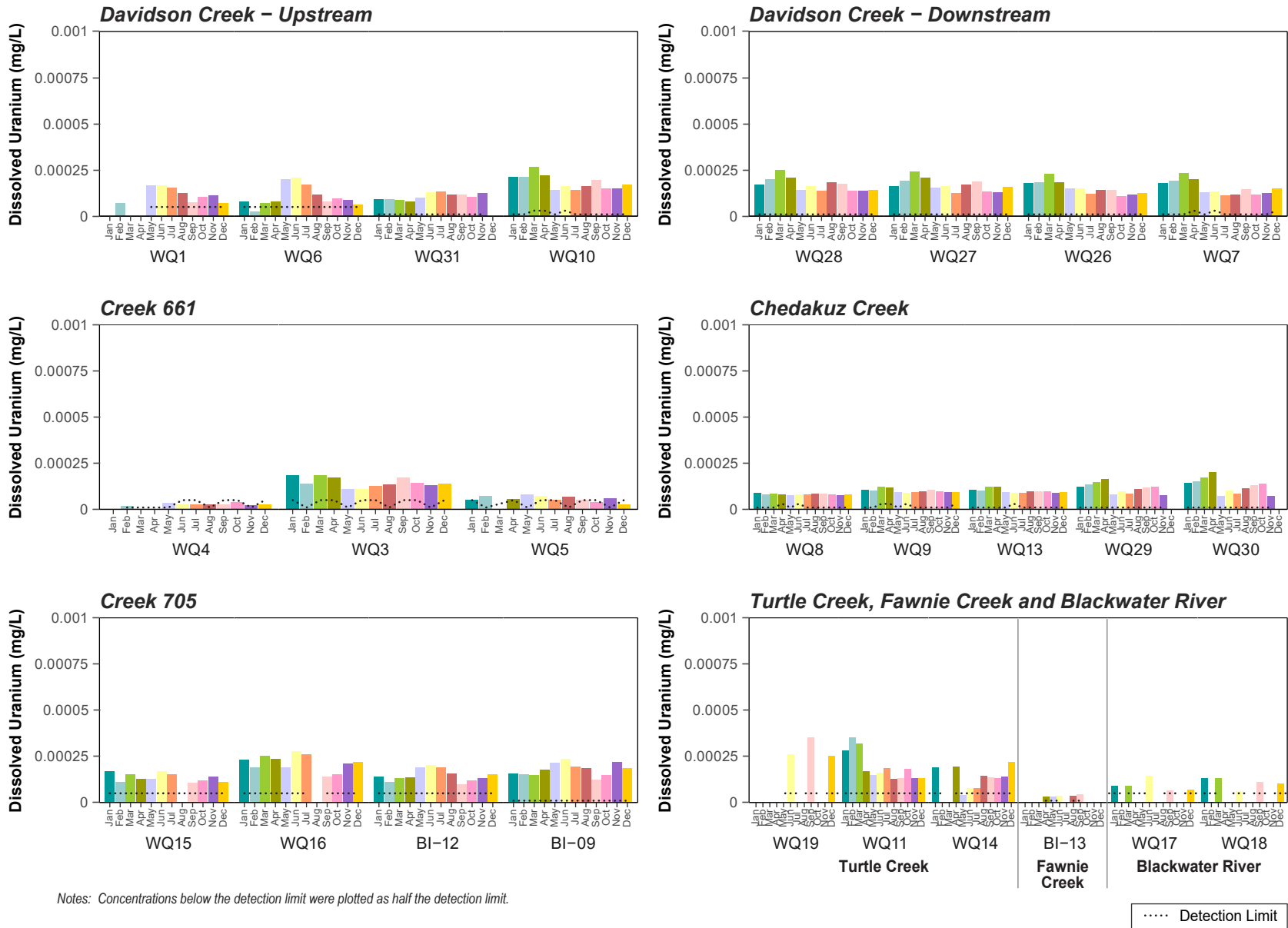


Figure C-24: Monthly Mean Dissolved Uranium Concentrations, Blackwater Gold Project Streams, 2011 to 2020

APPENDIX D-1 LAKE WATER QUALITY DATA, BLACKWATER GOLD PROJECT, 2012 TO 2020

Appendix D-1: Lake Water Quality Data, Blackwater Gold Project, 2012 to 2020

LabID	Site	Depth	QAQC	Date	Physical Tests								
					pH	Conductivity	Hardness (as CaCO ₃)	Hardness, Total (as CaCO ₃)	Total Dissolved Solids	Total Suspended Solids	Turbidity	Acidity (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)
					pH units	µS/cm	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L
	WQ20	epi		6/25/2012	8.12	161	66.6	70.3	128	< 2	1.20	-	80.0
	WQ20	hypo		6/25/2012	8.11	152	66.2	72.0	108	34.0	12.0	-	77.0
	WQ20	meta		6/25/2012	8.11	152	66.5	76.7	112	3.00	1.60	-	78.0
	WQ20	epi		9/12/2012	7.98	155	70.5	74.8	88.0	2.00	2.00	-	70.0
	WQ20	hypo		9/12/2012	8.02	150	69.4	77.9	92.0	3.00	2.10	-	97.0
	WQ20	meta		9/12/2012	8.02	150	69.3	73.7	92.0	2.00	1.30	-	76.0
	WQ20	epi		2/7/2013	7.84	163	84.9	84.9	96.0	< 2	1.60	-	90.0
	WQ20	hypo		2/7/2013	7.64	184	83.7	87.6	124	9.00	140	-	104
	WQ20	meta		2/7/2013	7.75	161	85.1	85.1	100	< 2	3.40	-	90.0
	WQ21	epi		6/25/2012	8.08	143	62.5	65.2	124	2.00	1.20	-	70.0
	WQ21	hypo		6/25/2012	8.08	151	63.7	66.7	96.0	< 2	0.700	-	74.0
	WQ21	meta		6/25/2012	8.07	146	61.4	65.9	112	4.00	1.40	-	71.0
	WQ21	epi		9/12/2012	8.08	142	63.8	71.5	76.0	4.00	1.40	-	86.0
	WQ21	hypo		9/12/2012	7.79	145	64.9	70.5	76.0	3.00	1.30	-	63.0
	WQ21	meta		9/12/2012	7.86	142	72.4	73.0	68.0	3.00	1.50	-	81.0
	WQ21	epi		1/28/2013	7.76	164	84.8	84.8	104	< 2	1.20	-	85.0
	WQ21	hypo		1/28/2013	7.71	146	72.0	77.9	140	< 2	0.900	-	76.0
	WQ21	meta		1/28/2013	7.75	145	75.2	76.3	124	< 2	0.900	-	76.0
	WQ21	epi		4/15/2014	7.65	145	64.8	-	108	<2	0.300	-	71.0
	WQ21	hypo		4/15/2014	7.69	149	68.3	-	120	2.00	1.70	-	74.0
	WQ21	meta		4/15/2014	7.70	148	68.4	-	128	<2	0.300	-	75.0
	WQ21	meta		7/1/2014	7.61	143	72.9	-	84.0	<2	0.600	-	69.0
	WQ21	meta		9/23/2014	7.68	150	74.4	-	100	3.00	2.10	-	71.0
	WQ22	epi		6/26/2012	7.91	104	38.0	40.9	100	2.00	1.00	-	51.0
	WQ22	hypo		6/26/2012	7.82	98.0	39.6	42.4	80.0	5.00	7.30	-	48.0
	WQ22	epi		9/12/2012	7.72	92.0	41.8	45.2	64.0	3.00	1.40	-	47.0
	WQ22	hypo		9/12/2012	7.70	92.0	41.6	45.6	48.0	2.00	1.40	-	51.0
	WQ22	epi		2/4/2013	7.33	108	51.3	51.3	72.0	< 2	2.50	-	55.0
	WQ22	hypo		2/4/2013	7.42	103	49.6	50.6	76.0	< 2	1.50	-	53.0
	WQ23	epi		6/26/2012	7.65	60.0	16.4	17.5	24.0	< 2	0.900	-	28.0
	WQ23	hypo		6/26/2012	7.74	69.0	22.0	23.2	44.0	4.00	1.20	-	32.0
	WQ23	meta		6/26/2012	7.69	59.0	21.0	22.1	48.0	< 2	1.10	-	29.0
	WQ23	epi		9/12/2012	7.64	50.0	18.0	19.8	4.00	3.00	1.30	-	< 1
	WQ23	hypo		9/12/2012	7.32	63.0	24.6	25.1	8.00	3.00	2.50	-	< 1
	WQ23	meta		9/12/2012	7.44	59.0	24.2	24.6	4.00	3.00	1.50	-	< 1
	WQ23	epi		3/13/2013	7.39	57.0	25.8	25.8	52.0	< 2	0.700	-	25.0
	WQ23	hypo		3/13/2013	7.30	71.0	30.3	30.7	36.0	6.00	8.90	-	33.0
	WQ23	meta		3/13/2013	7.35	58.0	25.9	25.9	36.0	< 2	0.600	-	26.0
	WQ23	epi		4/15/2014	7.11	59.0	23.0	-	80.0	<2	0.400	-	28.0
	WQ23	hypo		4/15/2014	7.04	59.0	22.6	-	84.0	<2	0.500	-	29.0
	WQ23	meta		7/1/2014	7.33	51.0	22.6	-	28.0	<2	0.600	-	24.0
	WQ23	meta		9/23/2014	7.47	67.0	23.4	-	64.0	<2	0.600	-	25.0
	WQ23	meta		12/8/2014	7.14	60.0	24.2	-	16.0	<2	0.300	-	23.0

Appendix D-1: Lake Water Quality Data, Blackwater Gold Project, 2012 to 2020

LabID	Site	Depth	QAQC	Date	Physical Tests								
					pH	Conductivity	Hardness (as CaCO ₃)	Hardness, Total (as CaCO ₃)	Total Dissolved Solids	Total Suspended Solids	Turbidity	Acidity (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)
					pH units	µS/cm	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L
L2060101-3	WQ23	meta	Dup	2/22/2018	7.82	53.4	22.2	-	57.0	<3.0	0.190	1.90	26.1
L2060101-2	WQ23	meta		2/22/2018	8.12	53.4	21.9	-	57.0	<3.0	0.200	2.30	26.8
L2102737-2	WQ23	meta		5/28/2018	7.45	39.2	17.8	-	48.0	<3.0	0.510	1.90	21.3
L2144658-2	WQ23	meta		8/8/2018	7.68	46.3	19.5	-	40.0	<3.0	0.410	2.00	24.4
L2204086-1	WQ23	meta		11/28/2018	7.31	54.2	24.1	-	48.0	<3.0	0.540	1.90	27.5
L2233329-2	WQ23	epi		2/13/2019	7.53	55.7	23.6	-	42.0	<3.0	0.190	2.50	28.0
L2282191-1	WQ23	epi		5/28/2019	7.49	48.0	18.2	-	54.0	<3.0	0.470	2.10	22.5
L2329543-2	WQ23	epi		8/13/2019	7.78	43.1	17.4	-	48.0	<3.0	0.320	2.00	20.5
L2378037-1	WQ23	epi		11/4/2019	7.55	51.7	23.1	-	46.0	<3.0	0.770	2.50	25.6
VA20A2211-004	WQ23	Surface		2/20/2020	7.54	46.0	17.8	19.2	43.0	<3.0	0.400	2.30	21.0
VA20A7202-001	WQ23	Surface		5/26/2020	7.16	42.7	17.6	16.1	36.0	<3.0	0.530	2.20	21.2
VA20B3264-001	WQ23	Surface		8/19/2020	7.51	45.3	17.7	18.8	43.0	<3.0	0.400	<2.0	20.8
	WQ24	epi		6/26/2012	7.56	47.0	16.6	17.4	32.0	< 2	0.600	-	22.0
	WQ24	hypo		6/26/2012	7.57	49.0	16.2	17.4	36.0	< 2	0.800	-	22.0
	WQ24	epi		9/12/2012	7.58	46.0	17.2	19.0	< 4	< 2	1.50	-	< 1
	WQ24	hypo		9/12/2012	7.59	46.0	17.2	19.0	< 4	< 2	1.30	-	< 1
	WQ24	epi		3/13/2013	7.43	51.0	22.3	22.5	24.0	< 2	0.600	-	60.0
	WQ24	hypo		3/13/2013	7.40	68.0	33.1	33.7	20.0	6.00	15.0	-	33.0
	WQ24	epi		4/15/2014	7.26	50.0	20.7	-	52.0	<2	0.200	-	24.0
	WQ24	hypo		4/15/2014	7.13	54.0	22.3	-	60.0	<2	0.500	-	28.0
	WQ24	meta		7/1/2014	7.31	41.0	19.0	-	44.0	<2	0.400	-	17.0
	WQ24	meta		9/23/2014	7.46	48.0	20.6	-	32.0	<2	0.600	-	21.0
	WQ24	meta		12/8/2014	7.50	55.0	20.7	-	40.0	<2	0.100	-	22.0
	WQ25	epi		9/12/2012	7.58	49.0	19.7	21.7	8.00	< 2	1.50	-	< 1
	WQ25	hypo		9/12/2012	7.60	48.0	19.5	21.7	20.0	2.00	1.70	-	34.0
	WQ25	epi		3/13/2013	7.42	52.0	26.3	26.9	24.0	2.00	0.800	-	23.0
	WQ25	hypo		3/13/2013	7.40	57.0	28.1	28.5	32.0	< 2	0.800	-	25.0
	WQ25	epi		4/15/2014	7.21	55.0	24.9	-	88.0	<2	0.300	-	28.0
	WQ25	hypo		4/15/2014	7.12	90.0	39.4	-	104	13.0	21.0	-	48.0
	WQ25	meta		7/1/2014	7.25	42.0	21.4	-	76.0	<2	0.700	-	17.0
	WQ25	meta		9/23/2014	7.51	52.0	24.1	-	56.0	<2	1.40	-	23.0
	WQ25	meta		12/8/2014	7.25	55.0	25.3	-	24.0	<2	0.200	-	25.0

Notes:

"-" indicates parameter was not analyzed.

"<" value is below the detection limit

Appendix D-1: Lake Water Quality Data, Blackwater Gold Project, 2012 to 2020

LabID	Site	Depth	QAQC	Date	Anions and Nutrients										
					Total Kjeldahl Nitrogen	Ammonia, Total (as N)	Bromide (Br)	Chloride (Cl)	Fluoride (F)	Nitrate (as N)	Nitrite (as N)	Orthophosphate-Dissolved (as P)	Phosphorus (P)-Total	Phosphorus Total Dissolved	Sulfate (SO ₄)
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ20	epi		6/25/2012	0.440	< 0.02	-	0.600	0.0800	< 0.005	< 0.003	< 0.003	-	0.00500	2.70
	WQ20	hypo		6/25/2012	1.24	< 0.02	-	0.700	0.0900	< 0.005	< 0.003	< 0.003	-	0.00500	2.10
	WQ20	meta		6/25/2012	0.550	< 0.02	-	0.900	0.100	< 0.005	< 0.003	< 0.003	-	0.00600	2.10
	WQ20	epi		9/12/2012	0.390	0.0300	-	< 0.1	0.0900	< 0.005	< 0.003	< 0.003	-	0.0190	1.40
	WQ20	hypo		9/12/2012	0.380	0.0200	-	< 0.1	0.0900	0.0120	< 0.003	< 0.003	-	0.0190	1.60
	WQ20	meta		9/12/2012	0.370	0.0200	-	< 0.1	0.0900	< 0.005	< 0.003	< 0.003	-	0.0180	1.60
	WQ20	epi		2/7/2013	0.290	< 0.02	-	0.600	0.0800	0.0360	< 0.003	< 0.003	-	0.0100	2.70
	WQ20	hypo		2/7/2013	0.600	0.530	-	0.600	0.0800	0.101	0.00500	0.0750	-	0.124	1.60
	WQ20	meta		2/7/2013	0.240	< 0.02	-	0.600	0.0800	0.107	< 0.003	< 0.003	-	0.0110	2.10
	WQ21	epi		6/25/2012	0.340	< 0.02	-	0.700	0.0800	< 0.005	< 0.003	< 0.003	-	0.00100	3.50
	WQ21	hypo		6/25/2012	0.210	< 0.02	-	0.700	0.0900	0.0110	< 0.003	< 0.003	-	0.00300	3.60
	WQ21	meta		6/25/2012	0.190	< 0.02	-	0.800	0.0900	< 0.005	< 0.003	< 0.003	-	0.00300	3.60
	WQ21	epi		9/12/2012	0.280	< 0.02	-	< 0.1	0.0800	0.00700	< 0.003	< 0.003	-	0.00300	3.10
	WQ21	hypo		9/12/2012	0.200	< 0.02	-	0.200	0.0800	0.0970	< 0.003	< 0.003	-	0.0220	3.20
	WQ21	meta		9/12/2012	0.270	< 0.02	-	< 0.1	0.0800	< 0.005	< 0.003	< 0.003	-	0.00300	3.10
	WQ21	epi		1/28/2013	0.120	< 0.02	-	0.400	0.0900	0.0810	< 0.003	< 0.003	-	0.0190	4.90
	WQ21	hypo		1/28/2013	0.170	< 0.02	-	0.400	0.0700	0.100	< 0.003	< 0.003	-	0.0170	4.20
	WQ21	meta		1/28/2013	0.120	< 0.02	-	0.400	0.0700	0.115	< 0.003	< 0.003	-	0.0160	4.20
	WQ21	epi		4/15/2014	0.120	0.0200	-	0.400	0.0700	0.183	<0.003	<0.003	-	0.0100	3.40
	WQ21	hypo		4/15/2014	0.150	0.0400	-	0.400	0.0800	0.194	<0.003	<0.003	-	0.0300	3.40
	WQ21	meta		4/15/2014	0.140	0.0200	-	0.400	0.0800	0.181	<0.003	<0.003	-	0.0200	3.60
	WQ21	meta		7/1/2014	0.170	<0.02	-	0.500	0.0700	0.132	<0.003	0.00500	-	0.0100	3.50
	WQ21	meta		9/23/2014	<0.08	<0.02	-	<0.1	0.0900	0.0220	0.00400	<0.003	-	<0.01	3.30
	WQ22	epi		6/26/2012	0.350	< 0.02	-	0.800	0.0800	< 0.005	< 0.003	< 0.003	-	0.00500	0.700
	WQ22	hypo		6/26/2012	0.510	< 0.02	-	0.900	0.0800	< 0.005	< 0.003	< 0.003	-	0.00500	0.700
	WQ22	epi		9/12/2012	0.450	< 0.02	-	0.200	0.0800	0.00600	< 0.003	< 0.003	-	0.00800	< 0.5
	WQ22	hypo		9/12/2012	0.450	< 0.02	-	< 0.1	0.0800	< 0.005	< 0.003	< 0.003	-	0.00800	< 0.5
	WQ22	epi		2/4/2013	0.450	< 0.02	-	0.400	0.0600	0.252	< 0.003	< 0.003	-	0.0150	1.20
	WQ22	hypo		2/4/2013	0.410	< 0.02	-	0.700	0.0700	0.311	< 0.003	< 0.003	-	0.0170	1.10
	WQ23	epi		6/26/2012	< 0.08	< 0.02	-	0.700	0.0600	< 0.005	< 0.003	< 0.003	-	0.00100	1.60
	WQ23	hypo		6/26/2012	0.0900	< 0.02	-	0.700	0.0600	< 0.005	< 0.003	< 0.003	-	0.00300	1.90
	WQ23	meta		6/26/2012	0.180	< 0.02	-	0.700	0.0500	< 0.005	< 0.003	< 0.003	-	0.00200	1.70
	WQ23	epi		9/12/2012	0.140	< 0.02	-	< 0.1	0.0500	< 0.005	< 0.003	< 0.003	-	0.00300	1.00
	WQ23	hypo		9/12/2012	0.170	< 0.02	-	< 0.1	0.0500	< 0.005	< 0.003	< 0.003	-	0.00600	1.10
	WQ23	meta		9/12/2012	0.150	< 0.02	-	< 0.1	0.0500	< 0.005	< 0.003	< 0.003	-	0.00200	1.30
	WQ23	epi		3/13/2013	0.0900	< 0.02	-	0.300	0.0500	0.0670	< 0.003	< 0.003	-	0.0230	2.20
	WQ23	hypo		3/13/2013	0.560	0.570	-	0.300	0.0500	0.0180	< 0.003	< 0.003	-	0.356	2.10
	WQ23	meta		3/13/2013	< 0.08	< 0.02	-	0.300	0.0500	0.110	< 0.003	< 0.003	-	0.0290	2.80
	WQ23	epi		4/15/2014	0.130	0.0200	-	0.200	0.0300	0.0760	0.00300	<0.003	-	<0.01	1.50
	WQ23	hypo		4/15/2014	0.0900	0.0300	-	0.900	0.0300	0.115	0.00300	<0.003	-	0.0100	1.50
	WQ23	meta		7/1/2014	0.100	<0.02	-	0.300	0.0300	<0.005	<0.003	<0.003	-	<0.010	1.50
	WQ23	meta		9/23/2014	<0.08	<0.02	-	2.80	0.0600	0.0190	<0.003	<0.003	-	<0.01	1.40
	WQ23	meta		12/8/2014	0.110	<0.02	-	<0.1	0.0500	0.699	<0.003	<0.003	-	0.0100	1.60

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LabID	Site	Depth	QAQC	Date	Anions and Nutrients										
					Total Kjeldahl Nitrogen	Ammonia, Total (as N)	Bromide (Br)	Chloride (Cl)	Fluoride (F)	Nitrate (as N)	Nitrite (as N)	Orthophosphate-Dissolved (as P)	Phosphorus (P)-Total	Phosphorus Total Dissolved	Sulfate (SO ₄)
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2060101-3	WQ23	meta	Dup	2/22/2018	0.123	<0.0050	<0.050	<0.50	0.0230	0.0526	<0.0010	0.00720	0.0154	-	1.62
L2060101-2	WQ23	meta		2/22/2018	0.123	<0.0050	<0.050	<0.50	0.0230	0.0510	<0.0010	0.00750	0.0154	-	1.63
L2102737-2	WQ23	meta		5/28/2018	0.154	<0.0050	<0.050	<0.50	0.0210	<0.0050	<0.0010	<0.0010	0.00960	-	1.42
L2144658-2	WQ23	meta		8/8/2018	0.162	<0.0050	<0.050	<0.50	0.0220	<0.0050	<0.0010	0.00200	0.0110	-	1.50
L2204086-1	WQ23	meta		11/28/2018	0.159	0.00690	<0.050	<0.50	0.0250	<0.0050	<0.0010	<0.0010	0.0107	-	1.76
L2233329-2	WQ23	epi		2/13/2019	0.117	0.00500	<0.050	<0.50	0.0250	0.0532	<0.0010	0.00340	0.00900	-	1.89
L2282191-1	WQ23	epi		5/28/2019	0.154	<0.0050	<0.050	<0.50	0.0230	<0.0050	<0.0010	<0.0010	0.00750	-	1.30
L2329543-2	WQ23	epi		8/13/2019	0.113	0.0186	<0.050	<0.50	0.0250	<0.0050	<0.0010	<0.0010	0.00630	-	1.39
L2378037-1	WQ23	epi		11/4/2019	0.189	0.00540	<0.050	<0.50	0.0260	<0.0050	<0.0010	0.00150	0.0169	-	1.62
VA20A2211-004	WQ23	Surface		2/20/2020	0.132	<0.0050	<0.050	<0.50	0.0220	0.0301	<0.0010	0.00450	0.0104	-	1.76
VA20A7202-001	WQ23	Surface		5/26/2020	0.230	<0.0050	<0.050	<0.50	0.0210	<0.0050	<0.0010	0.00110	0.0170	-	1.39
VA20B3264-001	WQ23	Surface		8/19/2020	0.155	<0.0050	<0.050	<0.50	0.0230	<0.0050	<0.0010	0.00110	0.00640	-	1.47
	WQ24	epi		6/26/2012	0.100	< 0.02	-	0.600	0.0500	< 0.005	< 0.003	< 0.003	-	0.00200	1.20
	WQ24	hypo		6/26/2012	< 0.08	< 0.02	-	0.700	0.0500	< 0.005	< 0.003	< 0.003	-	0.00200	1.20
	WQ24	epi		9/12/2012	0.150	< 0.02	-	< 0.1	0.0400	< 0.005	< 0.003	< 0.003	-	< 0.001	0.600
	WQ24	hypo		9/12/2012	< 0.08	< 0.02	-	< 0.1	0.0400	< 0.005	< 0.003	< 0.003	-	0.00100	0.600
	WQ24	epi		3/13/2013	0.100	< 0.02	-	0.300	0.0400	0.0410	< 0.003	< 0.003	-	0.0230	2.00
	WQ24	hypo		3/13/2013	0.320	0.250	-	0.300	0.0500	0.0430	< 0.003	< 0.003	-	0.119	1.70
	WQ24	epi		4/15/2014	<0.08	0.0300	-	0.400	0.0300	0.0480	<0.003	<0.003	-	<0.01	1.10
	WQ24	hypo		4/15/2014	0.100	0.0200	-	0.300	0.0300	0.100	<0.003	<0.003	-	<0.01	1.30
	WQ24	meta		7/1/2014	0.140	<0.02	-	0.300	0.0300	0.0170	<0.003	0.00600	-	<0.010	0.900
	WQ24	meta		9/23/2014	<0.08	<0.02	-	0.100	0.0700	<0.005	<0.003	<0.003	-	0.0100	0.900
	WQ24	meta		12/8/2014	0.0800	<0.02	-	1.60	0.160	<0.005	<0.003	<0.003	-	<0.010	1.00
	WQ25	epi		9/12/2012	0.190	< 0.02	-	< 0.1	0.0400	< 0.005	< 0.003	< 0.003	-	0.00200	< 0.5
	WQ25	hypo		9/12/2012	0.190	< 0.02	-	< 0.1	0.0500	< 0.005	< 0.003	< 0.003	-	0.00300	< 0.5
	WQ25	epi		3/13/2013	0.200	< 0.02	-	0.300	0.0400	0.0350	< 0.003	< 0.003	-	0.0230	1.70
	WQ25	hypo		3/13/2013	0.160	< 0.02	-	0.300	0.0400	0.0660	< 0.003	< 0.003	-	0.0250	1.60
	WQ25	epi		4/15/2014	0.150	0.0400	-	0.300	0.0300	0.0480	<0.003	<0.003	-	<0.01	0.800
	WQ25	hypo		4/15/2014	0.0800	0.630	-	0.300	0.0400	0.0110	0.00300	<0.003	-	0.0400	0.600
	WQ25	meta		7/1/2014	0.180	<0.02	-	0.300	0.0300	<0.005	<0.003	0.00600	-	<0.010	0.700
	WQ25	meta		9/23/2014	0.140	<0.02	-	0.200	0.0700	<0.005	<0.003	<0.003	-	<0.01	0.600
	WQ25	meta		12/8/2014	0.110	<0.02	-	0.200	0.0600	<0.005	<0.003	<0.003	-	<0.010	0.800

Notes:

"-" indicates parameter was not analyzed.

"<" value is below the detection limit

Appendix D-1: Lake Water Quality Data, Blackwater Gold Project, 2012 to 2020

LabID	Site	Depth	QAQC	Date	Cyanides			Organic / Inorganic Carbon		Total Metals						
					Cyanide, Total	Cyanide, Weak Acid Diss	Thiocyanate	Dissolved Organic Carbon	Total Organic Carbon	Aluminum (Al)-Total	Antimony (Sb)-Total	Arsenic (As)-Total	Barium (Ba)-Total	Beryllium (Be)-Total	Bismuth (Bi)-Total	Boron (B)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ20	epi		6/25/2012	<0.0050	<0.0050	-	8.40	8.60	0.00400	< 0.00005	0.000300	0.00846	< 0.0001	-	0.00700
	WQ20	hypo		6/25/2012	<0.0050	<0.0050	-	8.60	8.90	0.235	< 0.00005	0.000500	0.0134	< 0.0001	-	0.00400
	WQ20	meta		6/25/2012	<0.0050	<0.0050	-	8.20	8.60	0.00600	< 0.00005	0.000300	0.00993	< 0.0001	-	0.00400
	WQ20	epi		9/12/2012	<0.0050	<0.0050	-	19.1	21.6	0.00200	< 0.00005	0.000300	0.00951	< 0.0001	-	< 0.001
	WQ20	hypo		9/12/2012	<0.0050	<0.0050	-	22.5	22.5	0.00700	< 0.00005	0.000400	0.00992	< 0.0001	-	< 0.001
	WQ20	meta		9/12/2012	<0.0050	<0.0050	-	19.6	22.1	< 0.002	< 0.00005	0.000300	0.00941	< 0.0001	-	< 0.001
	WQ20	epi		2/7/2013	<0.0050	<0.0050	-	8.60	8.60	0.00700	< 0.00005	0.000300	0.00932	< 0.0001	-	0.00100
	WQ20	hypo		2/7/2013	<0.0050	<0.0050	-	7.90	7.90	0.0220	< 0.00005	0.000400	0.0142	< 0.0001	-	0.00100
	WQ20	meta		2/7/2013	<0.0050	<0.0050	-	7.80	7.80	0.00300	< 0.00005	0.000300	0.00878	< 0.0001	-	0.00100
	WQ21	epi		6/25/2012	<0.0050	<0.0050	-	8.30	8.30	0.0120	< 0.00005	0.000400	0.00593	< 0.0001	-	0.00300
	WQ21	hypo		6/25/2012	<0.0050	<0.0050	-	7.90	8.20	0.0190	< 0.00005	0.000400	0.00614	< 0.0001	-	0.00200
	WQ21	meta		6/25/2012	<0.0050	<0.0050	-	8.40	8.40	0.0130	< 0.00005	0.000400	0.00599	< 0.0001	-	0.00300
	WQ21	epi		9/12/2012	<0.0050	<0.0050	-	17.8	19.1	0.00400	< 0.00005	0.000400	0.00614	< 0.0001	-	< 0.001
	WQ21	hypo		9/12/2012	<0.0050	<0.0050	-	18.5	19.2	0.00400	< 0.00005	0.000400	0.00600	< 0.0001	-	< 0.001
	WQ21	meta		9/12/2012	<0.0050	<0.0050	-	18.2	18.2	0.00300	< 0.00005	0.000400	0.00641	< 0.0001	-	< 0.001
	WQ21	epi		1/28/2013	<0.0050	<0.0050	-	7.30	7.60	0.00600	< 0.00005	0.000500	0.00620	< 0.0001	-	0.00400
	WQ21	hypo		1/28/2013	<0.0050	<0.0050	-	8.20	8.50	0.0270	0.0000700	0.000400	0.00573	< 0.0001	-	0.00300
	WQ21	meta		1/28/2013	<0.0050	<0.0050	-	7.80	7.90	0.00300	0.0000600	0.000400	0.00562	< 0.0001	-	0.00300
	WQ21	epi		4/15/2014	<0.0050	<0.0050	-	7.70	7.70	0.00200	< 0.00005	0.000400	0.00507	< 0.0001	-	< 0.001
	WQ21	hypo		4/15/2014	<0.0050	<0.0050	-	7.60	7.60	0.00800	< 0.00005	0.000400	0.00592	< 0.0001	-	< 0.001
	WQ21	meta		4/15/2014	<0.0050	<0.0050	-	7.80	7.80	0.0200	< 0.00005	0.000400	0.00501	< 0.0001	-	< 0.001
	WQ21	meta		7/1/2014	<0.0050	<0.0050	-	7.20	7.50	0.00600	< 0.00005	0.000400	0.00499	< 0.0001	-	< 0.001
	WQ21	meta		9/23/2014	<0.0050	<0.0050	-	7.10	7.40	0.00500	< 0.00005	0.000500	0.00555	< 0.0001	-	< 0.001
	WQ22	epi		6/26/2012	<0.0050	<0.0050	-	14.3	14.7	0.0150	< 0.00005	0.000200	0.00634	< 0.0001	-	0.00300
	WQ22	hypo		6/26/2012	<0.0050	<0.0050	-	4.80	14.4	0.0300	< 0.00005	0.000300	0.00944	< 0.0001	-	0.00300
	WQ22	epi		9/12/2012	<0.0050	<0.0050	-	23.6	23.6	0.00700	< 0.00005	0.000300	0.00772	< 0.0001	-	< 0.001
	WQ22	hypo		9/12/2012	<0.0050	<0.0050	-	24.1	24.1	0.0150	< 0.00005	0.000300	0.00773	< 0.0001	-	< 0.001
	WQ22	epi		2/4/2013	<0.0050	<0.0050	-	14.8	16.0	0.0120	0.0000900	0.000300	0.00737	< 0.0001	-	0.00300
	WQ22	hypo		2/4/2013	<0.0050	<0.0050	-	14.6	14.6	0.00800	< 0.00005	0.000200	0.00727	< 0.0001	-	0.00200
	WQ23	epi		6/26/2012	<0.0050	<0.0050	-	4.00	4.00	0.0180	< 0.00005	0.000600	0.00257	< 0.0001	-	0.00100
	WQ23	hypo		6/26/2012	<0.0050	<0.0050	-	2.20	3.10	0.00600	< 0.00005	0.000800	0.00419	< 0.0001	-	< 0.001
	WQ23	meta		6/26/2012	<0.0050	<0.0050	-	3.20	3.30	0.00600	< 0.00005	0.000500	0.00342	< 0.0001	-	< 0.001
	WQ23	epi		9/12/2012	<0.0050	<0.0050	-	7.80	7.80	0.0140	0.0000700	0.000800	0.00223	< 0.0001	-	< 0.001
	WQ23	hypo		9/12/2012	<0.0050	<0.0050	-	9.20	12.5	0.00500	0.0000700	0.000800	0.00493	< 0.0001	-	< 0.001
	WQ23	meta		9/12/2012	<0.0050	<0.0050	-	8.20	8.40	0.00700	0.0000600	0.000400	0.00392	< 0.0001	-	< 0.001
	WQ23	epi		3/13/2013	<0.0050	<0.0050	-	2.90	3.50	0.00300	0.0000700	0.000600	0.00291	< 0.0001	-	< 0.001
	WQ23	hypo		3/13/2013	<0.0050	<0.0050	-	3.70	3.80	0.0180	< 0.00005	0.0127	0.00716	< 0.0001	-	< 0.001
	WQ23	meta		3/13/2013	<0.0050	<0.0050	-	2.90	2.90	0.00200	0.0000600	0.000600	0.00339	< 0.0001	-	< 0.001
	WQ23	epi		4/15/2014	<0.0050	<0.0050	-	3.70	3.70	0.00400	< 0.00005	0.000500	0.00302	< 0.0001	-	< 0.001
	WQ23	hypo		4/15/2014	<0.0050	<0.0050	-	4.30	4.30	0.00400	< 0.00005	0.000400	0.00377	< 0.0001	-	0.00200
	WQ23	meta		7/1/2014	<0.0050	<0.0050	-	3.60	3.60	0.0150	< 0.00005	0.000500	0.00288	< 0.0001	-	< 0.001
	WQ23	meta		9/23/2014	<0.0050	<0.0050	-	3.60	3.60	0.00800	0.0000800	0.000900	0.00250	< 0.0001	-	< 0.001
	WQ23	meta		12/8/2014	<0.0050	<0.0050	-	2.50	2.50	0.00300	< 0.00005	0.000900	0.00303	< 0.0001	-	< 0.001

Appendix D-1: Lake Water Quality Data, Blackwater Gold Project, 2012 to 2020

LabID	Site	Depth	QAQC	Date	Cyanides			Organic / Inorganic Carbon		Total Metals						
					Cyanide, Total	Cyanide, Weak Acid Diss	Thiocyanate	Dissolved Organic Carbon	Total Organic Carbon	Aluminum (Al)-Total	Antimony (Sb)-Total	Arsenic (As)-Total	Barium (Ba)-Total	Beryllium (Be)-Total	Bismuth (Bi)-Total	Boron (B)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2060101-3	WQ23	meta	Dup	2/22/2018	<0.0050	<0.0050	<0.50	3.14	3.42	0.00470	<0.00010	0.000810	0.00324	<0.00010	<0.000050	<0.010
L2060101-2	WQ23	meta		2/22/2018	<0.0050	<0.0050	<0.50	3.17	3.10	0.00430	<0.00010	0.000880	0.00299	<0.00010	<0.000050	<0.010
L2102737-2	WQ23	meta		5/28/2018	<0.0050	<0.0050	<0.50	5.15	5.28	0.0458	0.000110	0.000720	0.00250	<0.00010	<0.000050	<0.010
L2144658-2	WQ23	meta		8/8/2018	<0.0050	<0.0050	<0.50	4.10	4.32	0.0149	0.000120	0.000920	0.00245	<0.00010	<0.000050	<0.010
L2204086-1	WQ23	meta		11/28/2018	<0.0050	<0.0050	<0.50	3.46	3.60	0.00540	<0.00010	0.000830	0.00355	<0.00010	<0.000050	<0.010
L2233329-2	WQ23	epi		2/13/2019	<0.0050	<0.0050	<0.50	3.43	3.23	0.00480	<0.00010	0.000720	0.00341	<0.00010	<0.000050	<0.010
L2282191-1	WQ23	epi		5/28/2019	<0.0050	<0.0050	0.160	4.30	4.20	0.0265	<0.00010	0.000680	0.00280	<0.00010	<0.000050	<0.010
L2329543-2	WQ23	epi		8/13/2019	<0.0050	<0.0050	<0.50	4.29	4.42	0.0198	<0.00010	0.000810	0.00266	<0.00010	<0.000050	<0.010
L2378037-1	WQ23	epi		11/4/2019	<0.0050	<0.0050	<0.50	3.29	3.40	0.0106	<0.00010	0.000950	0.00320	<0.00010	<0.000050	<0.010
VA20A2211-004	WQ23	Surface		2/20/2020	<0.0050	<0.0050	<0.50	3.17	3.19	0.0252	0.000100	0.000710	0.00312	<0.000020	<0.000050	<0.010
VA20A7202-001	WQ23	Surface		5/26/2020	<0.0050	<0.0050	<0.50	4.12	4.09	0.0277	<0.00010	0.000600	0.00274	<0.000020	<0.000050	<0.010
VA20B3264-001	WQ23	Surface		8/19/2020	<0.0050	<0.0050	<0.50	3.85	4.76	0.0154	<0.00010	0.000830	0.00225	<0.000020	<0.000050	<0.010
	WQ24	epi		6/26/2012	-	-	-	5.20	5.20	0.0190	< 0.00005	0.000400	0.00291	< 0.0001	-	< 0.001
	WQ24	hypo		6/26/2012	<0.0050	<0.0050	-	5.30	5.30	0.0320	< 0.00005	0.000400	0.00308	< 0.0001	-	< 0.001
	WQ24	epi		9/12/2012	<0.0050	<0.0050	-	7.60	8.20	0.0130	0.0000700	0.000400	0.00282	< 0.0001	-	< 0.001
	WQ24	hypo		9/12/2012	<0.0050	<0.0050	-	7.70	8.10	0.0120	0.0000700	0.000400	0.00278	< 0.0001	-	< 0.001
	WQ24	epi		3/13/2013	<0.0050	<0.0050	-	4.50	4.50	0.0110	0.0000600	0.000400	0.00296	< 0.0001	-	< 0.001
	WQ24	hypo		3/13/2013	<0.0050	<0.0050	-	5.00	5.20	0.0130	< 0.00005	0.00620	0.00866	< 0.0001	-	< 0.001
	WQ24	epi		4/15/2014	<0.0050	<0.0050	-	5.30	5.30	0.00600	<0.00005	0.000300	0.00311	<0.0001	-	<0.001
	WQ24	hypo		4/15/2014	<0.0050	<0.0050	-	4.60	4.60	0.0140	<0.00005	0.000500	0.00424	<0.0001	-	<0.001
	WQ24	meta		7/1/2014	<0.0050	<0.0050	-	5.20	5.20	0.0240	<0.00005	0.000400	0.00271	<0.0001	-	<0.001
	WQ24	meta		9/23/2014	<0.0050	<0.0050	-	4.60	4.60	0.0120	0.0000600	0.000500	0.00313	<0.0001	-	<0.001
	WQ24	meta		12/8/2014	<0.0050	<0.0050	-	3.50	3.50	0.00400	<0.00005	0.000500	0.00304	<0.0001	-	<0.001
	WQ25	epi		9/12/2012	<0.0050	<0.0050	-	12.1	12.2	0.0290	< 0.00005	0.000100	0.00833	< 0.0001	-	< 0.001
	WQ25	hypo		9/12/2012	<0.0050	<0.0050	-	11.5	12.3	0.0260	< 0.00005	0.000200	0.00808	< 0.0001	-	< 0.001
	WQ25	epi		3/13/2013	<0.0050	<0.0050	-	7.00	7.20	0.0160	< 0.00005	0.000200	0.00889	< 0.0001	-	< 0.001
	WQ25	hypo		3/13/2013	<0.0050	<0.0050	-	6.90	7.00	0.0160	< 0.00005	0.000200	0.00963	< 0.0001	-	< 0.001
	WQ25	epi		4/15/2014	<0.0050	<0.0050	-	9.10	9.10	0.0210	<0.00005	0.000100	0.00904	<0.0001	-	<0.001
	WQ25	hypo		4/15/2014	<0.0050	<0.0050	-	10.2	10.6	0.0440	<0.00005	0.00120	0.0278	<0.0001	-	<0.001
	WQ25	meta		7/1/2014	<0.0050	<0.0050	-	8.50	8.50	0.0470	<0.00005	0.000200	0.00879	<0.0001	-	<0.001
	WQ25	meta		9/23/2014	<0.0050	<0.0050	-	8.10	8.10	0.0190	<0.00005	0.000300	0.00844	<0.0001	-	<0.001
	WQ25	meta		12/8/2014	<0.0050	<0.0050	-	6.70	6.70	0.0110	<0.00005	0.000300	0.00933	<0.0001	-	<0.001

Notes:
 "-" indicates parameter was not analyzed.
 "<" value is below the detection limit

Appendix D-1: Lake Water Quality Data, Blackwater Gold Project, 2012 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals											
					Cadmium (Cd)-Total	Calcium (Ca)-Total	Chromium (Cr)-Total	Cobalt (Co)-Total	Copper (Cu)-Total	Iron (Fe)-Total	Lead (Pb)-Total	Lithium (Li)-Total	Magnesium (Mg)-Total	Manganese (Mn)-Total	Mercury (Hg)-Total	Molybdenum (Mo)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ20	epi		6/25/2012	< 0.000015	19.5	< 0.0003	< 0.00002	< 0.0001	0.0169	< 0.00005	< 0.001	5.24	0.0217	< 0.000005	0.00122
	WQ20	hypo		6/25/2012	< 0.000015	20.0	< 0.0003	0.000130	0.00280	0.460	0.00110	< 0.001	5.37	0.0932	< 0.000005	0.000830
	WQ20	meta		6/25/2012	< 0.000015	22.2	< 0.0003	< 0.00002	0.00150	0.0197	0.0108	< 0.001	5.16	0.0268	< 0.000005	0.000960
	WQ20	epi		9/12/2012	0.0000230	20.7	0.000400	< 0.00002	0.000300	0.0598	0.0000900	< 0.001	5.61	0.102	< 0.000005	0.000700
	WQ20	hypo		9/12/2012	0.0000420	21.9	< 0.0003	< 0.00002	0.000500	0.0606	0.000540	< 0.001	5.61	0.103	< 0.000005	0.000710
	WQ20	meta		9/12/2012	0.0000170	20.5	0.000300	< 0.00002	0.000500	0.0570	0.000280	< 0.001	5.48	0.0998	< 0.000005	0.000660
	WQ20	epi		2/7/2013	< 0.000015	22.2	< 0.0003	< 0.00002	0.000100	0.0104	< 0.00005	< 0.001	7.16	0.00833	< 0.000005	0.000680
	WQ20	hypo		2/7/2013	< 0.000015	24.4	< 0.0003	0.0000300	< 0.0001	0.431	< 0.00005	< 0.001	6.46	0.564	0.00000700	0.000630
	WQ20	meta		2/7/2013	< 0.000015	23.3	< 0.0003	< 0.00002	< 0.0001	0.0104	< 0.00005	< 0.001	6.58	0.0189	< 0.000005	0.000610
	WQ21	epi		6/25/2012	< 0.000015	18.7	< 0.0003	< 0.00002	0.000200	0.0270	< 0.00005	< 0.001	4.48	0.00584	< 0.000005	0.000610
	WQ21	hypo		6/25/2012	< 0.000015	19.1	< 0.0003	< 0.00002	0.000800	0.0314	0.000950	< 0.001	4.66	0.00698	< 0.000005	0.000530
	WQ21	meta		6/25/2012	< 0.000015	19.0	< 0.0003	< 0.00002	0.000500	0.0341	< 0.00005	< 0.001	4.50	0.00598	< 0.000005	0.000560
	WQ21	epi		9/12/2012	0.0000280	20.8	0.000300	< 0.00002	0.000300	0.0160	< 0.00005	< 0.001	4.75	0.00340	< 0.000005	0.000540
	WQ21	hypo		9/12/2012	0.0000230	20.5	0.000400	< 0.00002	0.000400	0.0403	0.000310	< 0.001	4.69	0.0616	< 0.000005	0.000510
	WQ21	meta		9/12/2012	0.0000250	21.6	0.000300	< 0.00002	0.000500	0.0179	0.000300	< 0.001	4.63	0.00483	< 0.000005	0.000600
	WQ21	epi		1/28/2013	< 0.000015	24.8	< 0.0003	< 0.00002	0.000800	0.00830	0.000750	< 0.001	5.57	0.00326	< 0.000005	0.000630
	WQ21	hypo		1/28/2013	0.000122	22.9	< 0.0003	< 0.00002	0.00120	0.0183	0.00312	< 0.001	5.02	0.00630	< 0.000005	0.000550
	WQ21	meta		1/28/2013	< 0.000015	22.4	< 0.0003	< 0.00002	0.000700	0.0104	0.00141	< 0.001	4.98	0.00503	< 0.000005	0.000510
	WQ21	epi		4/15/2014	< 0.000015	21.5	< 0.0003	< 0.00002	0.000200	0.0212	< 0.00005	< 0.001	4.61	0.00616	< 0.000005	0.000480
	WQ21	hypo		4/15/2014	< 0.000015	20.9	< 0.0003	0.0000200	0.000300	0.107	< 0.00005	< 0.001	4.59	0.144	< 0.000005	0.000480
	WQ21	meta		4/15/2014	< 0.000015	21.0	< 0.0003	< 0.00002	0.000300	0.0135	< 0.00005	< 0.001	4.59	0.00602	< 0.000005	0.000490
	WQ21	meta		7/1/2014	0.0000180	21.5	< 0.0003	0.0000300	0.000400	0.0332	< 0.00005	< 0.001	4.68	0.0171	< 0.000005	0.000270
	WQ21	meta		9/23/2014	< 0.000015	21.7	< 0.0003	0.0000200	0.000400	0.0198	< 0.00005	< 0.001	4.92	0.00811	< 0.000005	0.000540
	WQ22	epi		6/26/2012	< 0.000015	11.4	< 0.0003	< 0.00002	0.000400	0.0981	< 0.00005	< 0.001	3.00	0.00781	< 0.000005	0.000320
	WQ22	hypo		6/26/2012	< 0.000015	12.0	0.000400	< 0.00002	0.000300	0.496	0.000480	< 0.001	3.00	0.145	< 0.000005	0.000280
	WQ22	epi		9/12/2012	0.0000310	12.7	< 0.0003	0.0000200	0.000100	0.164	0.000120	< 0.001	3.27	0.0337	< 0.000005	0.000310
	WQ22	hypo		9/12/2012	0.0000260	12.8	< 0.0003	< 0.00002	0.000400	0.184	0.000180	< 0.001	3.28	0.0356	< 0.000005	0.000310
	WQ22	epi		2/4/2013	< 0.000015	14.1	< 0.0003	< 0.00002	0.000400	0.0632	0.00179	< 0.001	3.90	0.0119	< 0.000005	0.000330
	WQ22	hypo		2/4/2013	< 0.000015	13.7	< 0.0003	< 0.00002	0.000700	0.0654	0.00178	< 0.001	3.99	0.0335	< 0.000005	0.000320
	WQ23	epi		6/26/2012	< 0.000015	5.50	0.000300	< 0.00002	< 0.0001	0.0146	< 0.00005	< 0.001	0.920	0.00283	< 0.000005	0.000590
	WQ23	hypo		6/26/2012	< 0.000015	7.10	< 0.0003	< 0.00002	< 0.0001	0.176	< 0.00005	< 0.001	1.34	0.0526	< 0.000005	0.000690
	WQ23	meta		6/26/2012	< 0.000015	6.80	< 0.0003	< 0.00002	< 0.0001	0.0341	< 0.00005	< 0.001	1.26	0.00624	< 0.000005	0.000680
	WQ23	epi		9/12/2012	0.0000280	6.10	0.000400	0.0000400	< 0.0001	0.0170	< 0.00005	< 0.001	1.12	0.00374	< 0.000005	0.000750
	WQ23	hypo		9/12/2012	0.0000250	7.70	0.000300	0.0000300	0.000100	0.233	0.000110	< 0.001	1.41	0.131	0.00000700	0.000840
	WQ23	meta		9/12/2012	0.0000220	7.60	0.000300	< 0.00002	0.000200	0.0435	0.0000700	< 0.001	1.38	0.00986	< 0.000005	0.000750
	WQ23	epi		3/13/2013	< 0.000015	8.10	< 0.0003	< 0.00002	0.000200	0.0275	< 0.00005	< 0.001	1.34	0.000560	< 0.000005	0.000750
	WQ23	hypo		3/13/2013	< 0.000015	9.60	< 0.0003	0.000160	0.000200	4.38	< 0.00005	< 0.001	1.62	0.525	0.00000600	0.00122
	WQ23	meta		3/13/2013	< 0.000015	8.10	< 0.0003	< 0.00002	0.000100	0.0347	< 0.00005	< 0.001	1.38	0.0404	< 0.000005	0.000740
	WQ23	epi		4/15/2014	< 0.000015	7.60	< 0.0003	< 0.00002	0.000200	0.0219	< 0.00005	< 0.001	1.24	0.00282	< 0.000005	0.000730
	WQ23	hypo		4/15/2014	< 0.000015	7.40	0.000400	< 0.00002	0.00110	0.0381	< 0.00005	< 0.001	1.22	0.0263	< 0.000005	0.000630
	WQ23	meta		7/1/2014	< 0.000015	7.10	< 0.0003	< 0.00002	0.000400	0.0279	< 0.00005	< 0.001	1.19	0.00409	< 0.000005	0.000400
	WQ23	meta		9/23/2014	< 0.000015	7.30	< 0.0003	< 0.00002	0.000300	0.0184	< 0.00005	< 0.001	1.28	0.00436	< 0.000005	0.000820
	WQ23	meta		12/8/2014	< 0.000015	7.60	< 0.0003	< 0.00002	0.000200	0.0775	< 0.00005	< 0.001	1.25	0.00892	< 0.000005	0.000750

Appendix D-1: Lake Water Quality Data, Blackwater Gold Project, 2012 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals											
					Cadmium (Cd)-Total	Calcium (Ca)-Total	Chromium (Cr)-Total	Cobalt (Co)-Total	Copper (Cu)-Total	Iron (Fe)-Total	Lead (Pb)-Total	Lithium (Li)-Total	Magnesium (Mg)-Total	Manganese (Mn)-Total	Mercury (Hg)-Total	Molybdenum (Mo)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2060101-3	WQ23	meta	Dup	2/22/2018	<0.000050	6.78	<0.00010	<0.00010	<0.00050	0.0440	<0.000050	<0.0010	1.19	0.00254	<0.000050	0.000790
L2060101-2	WQ23	meta		2/22/2018	<0.000050	6.54	<0.00010	<0.00010	<0.00050	0.0640	<0.000050	<0.0010	1.19	0.00230	<0.000050	0.000848
L2102737-2	WQ23	meta		5/28/2018	<0.000050	5.08	0.000150	<0.00010	<0.00050	0.0340	<0.000050	<0.0010	0.881	0.00531	0.0000117	0.000538
L2144658-2	WQ23	meta		8/8/2018	<0.000050	5.87	0.000170	<0.00010	<0.00050	<0.030	<0.000050	<0.0010	0.956	0.00390	0.00000690	0.000802
L2204086-1	WQ23	meta		11/28/2018	<0.000050	7.34	<0.00020	<0.00010	<0.00050	0.0310	<0.000050	<0.0010	1.22	0.00758	<0.000050	0.000809
L2233329-2	WQ23	epi		2/13/2019	<0.000050	7.26	<0.00010	<0.00010	<0.00050	<0.030	0.0000840	<0.0010	1.27	0.00286	<0.000050	0.000724
L2282191-1	WQ23	epi		5/28/2019	<0.000050	5.41	<0.00010	<0.00010	<0.00050	<0.030	<0.000050	<0.0010	0.987	0.00473	0.00000700	0.000595
L2329543-2	WQ23	epi		8/13/2019	<0.000050	5.64	<0.00010	<0.00010	0.00329	<0.030	<0.000050	<0.0010	0.910	0.00342	0.00000690	0.000674
L2378037-1	WQ23	epi		11/4/2019	<0.000050	7.17	<0.00010	<0.00010	<0.00050	0.101	<0.000050	<0.0010	1.20	0.0223	<0.000050	0.000764
VA20A2211-004	WQ23	Surface		2/20/2020	<0.000050	6.13	<0.00010	<0.00010	<0.00050	0.0380	0.000130	<0.0010	0.951	0.00244	0.0000112	0.000654
VA20A7202-001	WQ23	Surface		5/26/2020	<0.000050	5.06	<0.00010	<0.00010	<0.00050	0.0200	<0.000050	<0.0010	0.844	0.00368	0.0000102	0.000560
VA20B3264-001	WQ23	Surface		8/19/2020	<0.000050	5.90	<0.00010	<0.00010	<0.00050	0.0120	<0.000050	<0.0010	0.999	0.00291	0.00000700	0.000735
	WQ24	epi		6/26/2012	< 0.000015	5.30	0.000300	< 0.00002	< 0.0001	0.0411	< 0.00005	< 0.001	1.01	0.00308	< 0.000005	0.000800
	WQ24	hypo		6/26/2012	< 0.000015	5.30	0.000300	< 0.00002	0.000100	0.0586	< 0.00005	< 0.001	1.02	0.00674	< 0.000005	0.000740
	WQ24	epi		9/12/2012	0.0000790	5.70	< 0.0003	< 0.00002	0.000300	0.0213	< 0.00005	< 0.001	1.17	0.00518	< 0.000005	0.000890
	WQ24	hypo		9/12/2012	0.0000220	5.70	0.000300	< 0.00002	0.000300	0.0210	0.000100	< 0.001	1.16	0.00595	0.00000700	0.000890
	WQ24	epi		3/13/2013	< 0.000015	6.90	< 0.0003	< 0.00002	0.000300	0.00550	< 0.00005	< 0.001	1.31	0.000140	< 0.000005	0.000910
	WQ24	hypo		3/13/2013	< 0.000015	10.7	< 0.0003	0.000110	0.000200	3.55	< 0.00005	< 0.001	1.70	1.01	< 0.000005	0.00247
	WQ24	epi		4/15/2014	<0.000015	6.60	<0.0003	<0.00002	0.000200	0.00650	<0.00005	<0.001	1.23	0.00131	<0.000005	0.000940
	WQ24	hypo		4/15/2014	<0.000015	7.20	<0.0003	<0.00002	0.000200	0.185	<0.00005	<0.001	1.32	0.152	<0.000005	0.00105
	WQ24	meta		7/1/2014	<0.000015	5.80	<0.0003	<0.00002	0.000200	0.0278	<0.00005	<0.001	1.08	0.00177	0.0000240	0.000540
	WQ24	meta		9/23/2014	<0.000015	6.20	<0.0003	<0.00002	0.000300	0.0216	<0.00005	<0.001	1.21	0.00697	<0.000005	0.000960
	WQ24	meta		12/8/2014	<0.000015	6.40	<0.0003	<0.00002	0.000200	0.00740	<0.00005	<0.001	1.17	0.00202	<0.000005	0.000880
	WQ25	epi		9/12/2012	0.0000520	7.00	< 0.0003	< 0.00002	0.000200	0.0829	< 0.00005	< 0.001	1.04	0.0102	< 0.000005	0.000710
	WQ25	hypo		9/12/2012	0.0000820	7.00	< 0.0003	< 0.00002	0.000200	0.0822	0.0000800	< 0.001	1.04	0.0102	0.00000500	0.000720
	WQ25	epi		3/13/2013	< 0.000015	8.80	< 0.0003	< 0.00002	0.000200	0.0348	< 0.00005	< 0.001	1.18	0.00378	< 0.000005	0.000650
	WQ25	hypo		3/13/2013	< 0.000015	9.30	< 0.0003	< 0.00002	0.000200	0.0564	< 0.00005	< 0.001	1.25	0.0659	< 0.000005	0.000620
	WQ25	epi		4/15/2014	<0.000015	8.60	<0.0003	<0.00002	0.000200	0.0520	<0.00005	<0.001	1.13	0.00550	<0.000005	0.000600
	WQ25	hypo		4/15/2014	<0.000015	14.0	<0.0003	0.000430	0.000100	7.97	<0.00005	<0.001	1.59	1.61	<0.000005	0.00244
	WQ25	meta		7/1/2014	<0.000015	7.00	<0.0003	<0.00002	0.000500	0.143	0.0000600	<0.001	0.940	0.00649	<0.000005	0.000360
	WQ25	meta		9/23/2014	<0.000015	7.90	<0.0003	0.0000200	0.000300	0.0964	<0.00005	<0.001	1.11	0.0175	<0.000005	0.000730
	WQ25	meta		12/8/2014	<0.000015	8.30	<0.0003	<0.00002	0.000200	0.0416	<0.00005	<0.001	1.12	0.00545	<0.000005	0.000610

Notes:
 "-" indicates parameter was not analyzed.
 "<" value is below the detection limit

Appendix D-1: Lake Water Quality Data, Blackwater Gold Project, 2012 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals														
					Nickel (Ni)-Total	Phosphorus (P)-Total	Potassium (K)-Total	Selenium (Se)-Total	Silicon (Si)-Total	Silver (Ag)-Total	Sodium (Na)-Total	Strontium (Sr)-Total	Sulfur (S)-Total	Thallium (Tl)-Total	Tin (Sn)-Total	Titanium (Ti)-Total	Uranium (U)-Total	Vanadium (V)-Total	Zinc (Zn)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ20	epi		6/25/2012	0.000420	< 0.02	0.700	< 0.0006	5.64	< 0.00005	3.40	0.103	-	< 0.00005	< 0.0001	< 0.0002	< 0.00005	0.000100	0.00140
	WQ20	hypo		6/25/2012	0.000610	0.100	0.800	< 0.0006	6.30	< 0.00005	3.20	0.106	-	< 0.00005	< 0.0001	0.0135	0.0000600	0.000100	0.00610
	WQ20	meta		6/25/2012	0.000180	< 0.02	0.700	< 0.0006	5.69	< 0.00005	3.20	0.118	-	< 0.00005	< 0.0001	0.000600	< 0.00005	0.000100	0.00530
	WQ20	epi		9/12/2012	0.000140	0.0300	1.00	< 0.0006	7.80	< 0.00005	3.30	0.108	-	< 0.00005	< 0.0001	< 0.0002	< 0.00005	0.000100	0.00360
	WQ20	hypo		9/12/2012	0.000120	0.0300	1.00	< 0.0006	7.89	< 0.00005	3.20	0.114	-	< 0.00005	< 0.0001	< 0.0002	< 0.00005	0.000200	0.0112
	WQ20	meta		9/12/2012	0.000130	0.0300	0.900	< 0.0006	7.74	< 0.00005	3.10	0.107	-	< 0.00005	< 0.0001	< 0.0002	< 0.00005	0.000200	0.00460
	WQ20	epi		2/7/2013	0.000390	< 0.02	1.20	< 0.0006	8.62	< 0.00005	4.20	0.112	-	< 0.00005	< 0.0001	< 0.0002	< 0.00005	< 0.0001	0.00220
	WQ20	hypo		2/7/2013	0.000190	0.140	1.10	< 0.0006	10.3	< 0.00005	3.70	0.118	-	< 0.00005	< 0.0001	0.00120	< 0.00005	< 0.0001	0.00280
	WQ20	meta		2/7/2013	0.000360	< 0.02	1.10	< 0.0006	7.94	< 0.00005	3.90	0.111	-	< 0.00005	< 0.0001	< 0.0002	< 0.00005	< 0.0001	0.00570
	WQ21	epi		6/25/2012	0.000220	< 0.02	0.700	< 0.0006	3.58	< 0.00005	3.40	0.0955	-	< 0.00005	< 0.0001	0.000300	0.0000800	0.000100	0.00110
	WQ21	hypo		6/25/2012	0.000270	< 0.02	0.800	< 0.0006	4.68	< 0.00005	3.50	0.0983	-	< 0.00005	< 0.0001	0.000500	0.0000800	0.000100	0.00340
	WQ21	meta		6/25/2012	0.000250	< 0.02	0.700	< 0.0006	3.82	< 0.00005	3.40	0.0973	-	< 0.00005	< 0.0001	0.000400	0.0000800	0.000100	0.00140
	WQ21	epi		9/12/2012	0.000220	< 0.02	0.800	< 0.0006	3.25	< 0.00005	3.40	0.103	-	< 0.00005	< 0.0001	< 0.0002	0.0000900	0.000100	0.00340
	WQ21	hypo		9/12/2012	0.000210	0.0300	0.900	< 0.0006	5.97	< 0.00005	3.40	0.102	-	< 0.00005	< 0.0001	< 0.0002	0.0000800	< 0.0001	0.00470
	WQ21	meta		9/12/2012	0.000210	< 0.02	0.800	< 0.0006	4.10	< 0.00005	3.30	0.108	-	< 0.00005	< 0.0001	< 0.0002	0.000100	0.000100	0.00330
	WQ21	epi		1/28/2013	0.000250	0.0200	1.00	< 0.0006	5.92	< 0.00005	4.10	0.108	-	< 0.00005	< 0.0001	0.000200	0.000110	< 0.0001	0.00270
	WQ21	hypo		1/28/2013	0.000410	0.0200	0.900	< 0.0006	5.22	< 0.00005	3.80	0.0992	-	< 0.00005	0.000200	< 0.0002	0.0000800	< 0.0001	0.0203
	WQ21	meta		1/28/2013	0.000220	< 0.02	0.900	< 0.0006	4.94	< 0.00005	3.80	0.0994	-	< 0.00005	< 0.0001	< 0.0002	0.0000800	< 0.0001	0.0119
	WQ21	epi		4/15/2014	0.000340	0.0200	0.800	< 0.0001	4.47	< 0.00005	3.50	0.0980	-	< 0.00005	< 0.0001	< 0.0002	0.0000800	< 0.00005	0.00250
	WQ21	hypo		4/15/2014	0.000250	0.0400	0.800	< 0.0001	5.36	< 0.00005	3.50	0.0979	-	< 0.00005	< 0.0001	0.000400	0.0000900	< 0.00005	0.00410
	WQ21	meta		4/15/2014	0.000220	0.0200	0.800	< 0.0001	4.31	< 0.00005	3.50	0.0970	-	< 0.00005	< 0.0001	< 0.0002	0.0000900	< 0.00005	0.00670
	WQ21	meta		7/1/2014	< 0.00005	0.0130	0.800	< 0.0001	5.03	< 0.00005	3.50	0.0954	-	< 0.00005	< 0.0001	0.000300	0.0000800	< 0.00005	0.00220
	WQ21	meta		9/23/2014	0.000260	0.0100	0.900	< 0.0001	3.80	< 0.00005	3.60	0.0985	-	< 0.00005	< 0.0001	0.000200	0.0000900	0.000170	0.00340
	WQ22	epi		6/26/2012	0.000110	< 0.02	0.900	< 0.0006	3.49	< 0.00005	2.90	0.0669	-	< 0.00005	< 0.0001	0.000200	< 0.00005	0.000100	0.00440
	WQ22	hypo		6/26/2012	0.000100	0.0200	0.900	< 0.0006	4.72	< 0.00005	2.90	0.0703	-	< 0.00005	< 0.0001	0.000700	< 0.00005	0.000200	0.00280
	WQ22	epi		9/12/2012	0.000120	< 0.02	1.10	< 0.0006	5.11	< 0.00005	3.00	0.0725	-	< 0.00005	< 0.0001	< 0.0002	< 0.00005	0.000100	0.00560
	WQ22	hypo		9/12/2012	0.000120	< 0.02	1.10	< 0.0006	5.14	< 0.00005	3.00	0.0734	-	< 0.00005	< 0.0001	0.000300	< 0.00005	0.000100	0.00500
	WQ22	epi		2/4/2013	0.000280	< 0.02	1.30	< 0.0006	6.26	< 0.00005	3.80	0.0751	-	< 0.00005	< 0.0001	0.000200	< 0.00005	< 0.0001	0.00510
	WQ22	hypo		2/4/2013	0.000250	< 0.02	1.30	< 0.0006	6.57	< 0.00005	3.90	0.0726	-	< 0.00005	< 0.0001	0.000200	< 0.00005	< 0.0001	0.0101
	WQ23	epi		6/26/2012	< 0.00005	< 0.02	< 0.5	< 0.0006	4.18	< 0.00005	2.00	0.0400	-	< 0.00005	< 0.0001	< 0.0002	0.000150	< 0.0001	0.000800
	WQ23	hypo		6/26/2012	< 0.00005	< 0.02	< 0.5	< 0.0006	4.99	< 0.00005	2.50	0.0516	-	< 0.00005	< 0.0001	< 0.0002	0.0000900	< 0.0001	0.00200
	WQ23	meta		6/26/2012	< 0.00005	< 0.02	< 0.5	< 0.0006	4.20	< 0.00005	2.80	0.0483	-	< 0.00005	< 0.0001	< 0.0002	0.0000900	< 0.0001	0.00260
	WQ23	epi		9/12/2012	0.00125	< 0.02	< 0.5	< 0.0006	4.07	< 0.00005	2.00	0.0440	-	< 0.00005	< 0.0001	0.000200	0.000140	< 0.0001	0.00280
	WQ23	hypo		9/12/2012	< 0.00005	0.0200	< 0.5	< 0.0006	5.31	< 0.00005	2.30	0.0554	-	< 0.00005	< 0.0001	< 0.0002	0.0000900	< 0.0001	0.00490
	WQ23	meta		9/12/2012	< 0.00005	< 0.02	< 0.5	< 0.0006	4.45	< 0.00005	2.30	0.0533	-	< 0.00005	< 0.0001	0.000300	0.0000800	< 0.0001	0.00440
	WQ23	epi		3/13/2013	< 0.00005	0.0200	< 0.5	< 0.0006	3.67	< 0.00005	2.50	0.0492	-	< 0.00005	< 0.0001	< 0.0002	0.000100	< 0.00005	0.00270
	WQ23	hypo		3/13/2013	0.0000800	0.370	< 0.5	< 0.0006	7.23	< 0.00005	2.60	0.0602	-	< 0.00005	< 0.0001	0.000800	0.000280	< 0.00005	0.000700
	WQ23	meta		3/13/2013	< 0.00005	0.0200	< 0.5	< 0.0006	4.23	< 0.00005	2.50	0.0506	-	< 0.00005	< 0.0001	< 0.0002	0.0000900	< 0.00005	0.000700
	WQ23	epi		4/15/2014	0.000110	< 0.01	< 0.5	< 0.0001	3.97	< 0.00005	2.30	0.0484	-	< 0.00005	< 0.0001	0.000300	0.0000800	< 0.00005	0.00420
	WQ23	hypo		4/15/2014	0.000360	< 0.01	0.500	< 0.0001	4.43	< 0.00005	2.30	0.0480	-	< 0.00005	< 0.0001	< 0.0002	0.0000700	< 0.00005	0.0173
	WQ23	meta		7/1/2014	< 0.00005	< 0.010	< 0.5	< 0.0001	3.85	< 0.00005	2.20	0.0437	-	< 0.00005	< 0.0001	< 0.0002	0.000120	< 0.00005	0.00600
	WQ23	meta		9/23/2014	0.0000800	0.0100	< 0.5	< 0.0001	3.80	< 0.00005	2.30	0.0457	-	< 0.00005	< 0.0001	< 0.0002	0.000170	0.0000800	0.00610
	WQ23	meta		12/8/2014	< 0.00005	0.0100	< 0.5	< 0.0001	4.44	< 0.00005	2.20	0.0482	-	< 0.00005	< 0.0001	< 0.0002	0.000100	0.000330	0.00200

Appendix D-1: Lake Water Quality Data, Blackwater Gold Project, 2012 to 2020

LabID	Site	Depth	QAQC	Date	Total Metals														
					Nickel (Ni)-Total	Phosphorus (P)-Total	Potassium (K)-Total	Selenium (Se)-Total	Silicon (Si)-Total	Silver (Ag)-Total	Sodium (Na)-Total	Strontium (Sr)-Total	Sulfur (S)-Total	Thallium (Tl)-Total	Tin (Sn)-Total	Titanium (Ti)-Total	Uranium (U)-Total	Vanadium (V)-Total	Zinc (Zn)-Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2060101-3	WQ23	meta	Dup	2/22/2018	<0.00050	<0.30	0.347	<0.000050	4.24	<0.000010	2.40	0.0470	<0.50	<0.000010	<0.00010	<0.010	0.000112	<0.00050	<0.0030
L2060101-2	WQ23	meta		2/22/2018	<0.00050	<0.30	0.337	<0.000050	4.26	<0.000010	2.30	0.0476	<0.50	<0.000010	<0.00010	<0.010	0.000119	<0.00050	<0.0030
L2102737-2	WQ23	meta		5/28/2018	<0.00050	<0.30	0.310	<0.000050	4.34	<0.000010	<2.0	0.0337	<0.50	<0.000010	<0.00010	<0.010	0.000173	<0.00050	0.00380
L2144658-2	WQ23	meta		8/8/2018	<0.00050	<0.30	0.312	<0.000050	3.90	<0.000010	2.00	0.0396	0.580	<0.000010	<0.00010	<0.010	0.000196	<0.00050	<0.0030
L2204086-1	WQ23	meta		11/28/2018	<0.00050	<0.30	0.400	<0.000050	3.68	<0.000010	2.40	0.0471	<0.50	<0.000010	<0.00010	<0.010	0.000138	<0.00050	<0.0030
L2233329-2	WQ23	epi		2/13/2019	<0.00050	<0.30	0.401	<0.000050	3.76	<0.000010	2.40	0.0480	0.560	<0.000010	<0.00010	<0.010	0.000127	<0.00050	<0.0030
L2282191-1	WQ23	epi		5/28/2019	<0.00050	<0.30	0.353	<0.000050	3.86	<0.000010	2.00	0.0379	<0.50	<0.000010	<0.00010	<0.010	0.000176	<0.00050	0.00370
L2329543-2	WQ23	epi		8/13/2019	<0.00050	<0.30	0.301	<0.000050	3.20	<0.000010	<2.0	0.0379	<0.50	<0.000010	<0.00010	<0.010	0.000191	<0.00050	<0.0030
L2378037-1	WQ23	epi		11/4/2019	<0.00050	<0.30	0.378	<0.000050	3.50	<0.000010	2.40	0.0442	<0.50	<0.000010	<0.00010	<0.010	0.000118	<0.00050	<0.0030
VA20A2211-004	WQ23	Surface		2/20/2020	<0.00050	<0.050	0.366	<0.000050	4.45	<0.000010	2.18	0.0420	<0.50	<0.000010	<0.00010	0.000440	0.000144	<0.00050	0.0100
VA20A7202-001	WQ23	Surface		5/26/2020	<0.00050	<0.050	0.264	<0.000050	3.75	<0.000010	1.95	0.0367	<0.50	<0.000010	<0.00010	0.000360	0.000139	<0.00050	0.00460
VA20B3264-001	WQ23	Surface		8/19/2020	<0.00050	<0.050	0.326	<0.000050	3.91	<0.000010	2.33	0.0410	0.540	<0.000010	<0.00010	<0.00030	0.000165	0.000640	<0.0030
	WQ24	epi		6/26/2012	< 0.00005	< 0.02	< 0.5	< 0.0006	2.00	< 0.00005	1.80	0.0387	-	< 0.00005	< 0.0001	0.000400	0.000300	< 0.0001	0.00190
	WQ24	hypo		6/26/2012	< 0.00005	< 0.02	< 0.5	< 0.0006	1.79	< 0.00005	1.80	0.0391	-	< 0.00005	< 0.0001	0.000300	0.000300	< 0.0001	0.00150
	WQ24	epi		9/12/2012	< 0.00005	< 0.02	< 0.5	< 0.0006	1.83	< 0.00005	1.70	0.0421	-	< 0.00005	< 0.0001	< 0.0002	0.000300	< 0.0001	0.00290
	WQ24	hypo		9/12/2012	< 0.00005	< 0.02	< 0.5	< 0.0006	1.72	< 0.00005	1.70	0.0421	-	< 0.00005	< 0.0001	< 0.0002	0.000290	< 0.0001	0.00460
	WQ24	epi		3/13/2013	0.0000600	< 0.01	< 0.5	< 0.0006	1.26	< 0.00005	2.00	0.0442	-	< 0.00005	< 0.0001	< 0.0002	0.000270	< 0.00005	0.00250
	WQ24	hypo		3/13/2013	0.0000500	0.130	0.500	< 0.0006	2.49	< 0.00005	2.20	0.0653	-	< 0.00005	< 0.0001	0.000200	0.000420	< 0.00005	0.00140
	WQ24	epi		4/15/2014	0.0000900	<0.01	<0.5	<0.0001	1.31	<0.00005	2.00	0.0441	-	<0.00005	<0.0001	0.000200	0.000290	<0.00005	0.00220
	WQ24	hypo		4/15/2014	0.0000800	0.0100	<0.5	<0.0001	1.98	<0.00005	1.90	0.0469	-	<0.00005	<0.0001	0.000200	0.000300	<0.00005	0.00270
	WQ24	meta		7/1/2014	<0.00005	<0.010	<0.5	<0.0001	1.97	<0.00005	1.70	0.0374	-	<0.00005	<0.0001	<0.0002	0.000320	<0.00005	0.00390
	WQ24	meta		9/23/2014	0.0000800	0.0100	<0.5	<0.0001	1.51	<0.00005	1.90	0.0409	-	<0.00005	<0.0001	<0.0002	0.000320	<0.00005	0.00400
	WQ24	meta		12/8/2014	<0.00005	<0.010	<0.5	<0.0001	1.33	<0.00005	1.80	0.0410	-	<0.00005	<0.0001	<0.0002	0.000270	0.000310	0.00310
	WQ25	epi		9/12/2012	0.0000700	< 0.02	< 0.5	< 0.0006	2.52	< 0.00005	1.60	0.0755	-	< 0.00005	< 0.0001	0.000300	0.000140	< 0.0001	0.00340
	WQ25	hypo		9/12/2012	0.0000600	< 0.02	< 0.5	< 0.0006	2.47	< 0.00005	1.60	0.0758	-	< 0.00005	< 0.0001	< 0.0002	0.000130	< 0.0001	0.00570
	WQ25	epi		3/13/2013	0.000100	0.0200	< 0.5	< 0.0006	1.60	< 0.00005	1.90	0.0814	-	< 0.00005	< 0.0001	< 0.0002	0.000130	< 0.00005	0.00250
	WQ25	hypo		3/13/2013	0.0000900	0.0200	< 0.5	< 0.0006	1.91	< 0.00005	1.90	0.0856	-	< 0.00005	< 0.0001	0.000200	0.000120	< 0.00005	0.000900
	WQ25	epi		4/15/2014	0.000120	<0.01	<0.5	<0.0001	2.59	<0.00005	1.90	0.0798	-	<0.00005	<0.0001	0.000200	0.000140	<0.00005	0.00280
	WQ25	hypo		4/15/2014	0.000150	0.0600	<0.5	<0.0001	4.31	<0.00005	1.90	0.124	-	<0.00005	<0.0001	0.000700	0.000210	<0.00005	0.00720
	WQ25	meta		7/1/2014	<0.00005	<0.010	<0.5	<0.0001	2.58	<0.00005	1.50	0.0660	-	<0.00005	<0.0001	0.000500	0.000150	<0.00005	0.00140
	WQ25	meta		9/23/2014	0.000120	0.0100	<0.5	<0.0001	1.49	<0.00005	1.70	0.0738	-	<0.00005	0.000100	0.000300	0.000140	0.0000500	0.00350
	WQ25	meta		12/8/2014	<0.00005	<0.010	<0.5	<0.0001	1.56	<0.00005	1.70	0.0776	-	<0.00005	<0.0001	<0.0002	0.000110	0.000320	0.00120

Notes:
 "-" indicates parameter was not analyzed.
 "<" value is below the detection limit

Appendix D-1: Lake Water Quality Data, Blackwater Gold Project, 2012 to 2020

LabID	Site	Depth	QAQC	Date	Dissolved Metals											
					Aluminum (Al)-Dissolved	Antimony (Sb)-Dissolved	Arsenic (As)-Dissolved	Barium (Ba)-Dissolved	Beryllium (Be)-Dissolved	Bismuth (Bi)-Dissolved	Boron (B)-Dissolved	Cadmium (Cd)-Dissolved	Calcium (Ca)- Dissolved	Chromium (Cr)-Dissolved	Cobalt (Co)- Dissolved	Copper (Cu)- Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ20	epi		6/25/2012	< 0.002	< 0.00005	0.000300	0.00743	< 0.0001	-	0.00700	< 0.000015	18.5	< 0.0003	< 0.00002	< 0.0001
	WQ20	hypo		6/25/2012	< 0.002	< 0.00005	0.000300	0.00768	< 0.0001	-	0.00400	< 0.000015	18.4	< 0.0003	< 0.00002	0.000200
	WQ20	meta		6/25/2012	< 0.002	< 0.00005	0.000200	0.00747	< 0.0001	-	0.00400	< 0.000015	18.4	< 0.0003	< 0.00002	< 0.0001
	WQ20	epi		9/12/2012	< 0.002	< 0.00005	0.000300	0.00867	< 0.0001	-	< 0.001	< 0.000015	19.5	0.000400	< 0.00002	< 0.0001
	WQ20	hypo		9/12/2012	< 0.002	< 0.00005	0.000400	0.00853	< 0.0001	-	< 0.001	< 0.000015	19.1	< 0.0003	< 0.00002	0.000100
	WQ20	meta		9/12/2012	< 0.002	< 0.00005	0.000300	0.00845	< 0.0001	-	< 0.001	< 0.000015	19.0	0.000300	< 0.00002	< 0.0001
	WQ20	epi		2/7/2013	0.00300	< 0.00005	0.000300	0.00885	< 0.0001	-	< 0.001	< 0.000015	22.2	< 0.0003	< 0.00002	0.000100
	WQ20	hypo		2/7/2013	< 0.002	< 0.00005	0.000400	0.0126	< 0.0001	-	< 0.001	< 0.000015	22.9	< 0.0003	0.0000200	< 0.0001
	WQ20	meta		2/7/2013	< 0.002	< 0.00005	0.000300	0.00878	< 0.0001	-	< 0.001	< 0.000015	23.3	< 0.0003	< 0.00002	< 0.0001
	WQ21	epi		6/25/2012	0.00300	< 0.00005	0.000400	0.00543	< 0.0001	-	0.00300	< 0.000015	18.0	< 0.0003	< 0.00002	< 0.0001
	WQ21	hypo		6/25/2012	0.00300	< 0.00005	0.000400	0.00540	< 0.0001	-	0.00200	< 0.000015	18.4	< 0.0003	< 0.00002	< 0.0001
	WQ21	meta		6/25/2012	0.00300	< 0.00005	0.000400	0.00532	< 0.0001	-	0.00300	< 0.000015	17.6	< 0.0003	< 0.00002	< 0.0001
	WQ21	epi		9/12/2012	< 0.002	< 0.00005	0.000400	0.00552	< 0.0001	-	< 0.001	< 0.000015	18.3	0.000300	< 0.00002	< 0.0001
	WQ21	hypo		9/12/2012	< 0.002	< 0.00005	0.000400	0.00509	< 0.0001	-	< 0.001	< 0.000015	18.6	0.000400	< 0.00002	< 0.0001
	WQ21	meta		9/12/2012	< 0.002	< 0.00005	0.000400	0.00641	< 0.0001	-	< 0.001	< 0.000015	21.6	0.000300	< 0.00002	< 0.0001
	WQ21	epi		1/28/2013	< 0.002	< 0.00005	0.000500	0.00571	< 0.0001	-	0.00400	< 0.000015	24.8	< 0.0003	< 0.00002	0.000800
	WQ21	hypo		1/28/2013	< 0.002	< 0.00005	0.000400	0.00542	< 0.0001	-	0.00300	0.0000150	20.6	< 0.0003	< 0.00002	0.000500
	WQ21	meta		1/28/2013	< 0.002	0.0000600	0.000400	0.00561	< 0.0001	-	0.00300	< 0.000015	21.9	< 0.0003	< 0.00002	0.000400
	WQ21	epi		4/15/2014	<0.002	<0.00005	0.000300	0.00457	<0.0001	-	<0.001	<0.000015	19.1	<0.0003	<0.00002	0.000200
	WQ21	hypo		4/15/2014	<0.002	<0.00005	0.000300	0.00500	<0.0001	-	<0.001	<0.000015	20.0	<0.0003	<0.00002	0.000300
	WQ21	meta		4/15/2014	<0.002	<0.00005	0.000300	0.00477	<0.0001	-	<0.001	<0.000015	20.1	0.000300	<0.00002	0.000300
	WQ21	meta		7/1/2014	<0.002	<0.00005	0.000400	0.00499	<0.0001	-	<0.001	0.0000180	21.5	<0.0003	<0.00002	0.000300
	WQ21	meta		9/23/2014	0.00200	<0.00005	0.000500	0.00544	<0.0001	-	<0.001	<0.000015	21.7	<0.0003	<0.00002	0.000400
	WQ22	epi		6/26/2012	0.0150	< 0.00005	0.000200	0.00549	< 0.0001	-	0.00300	< 0.000015	10.5	< 0.0003	< 0.00002	< 0.0001
	WQ22	hypo		6/26/2012	0.0110	< 0.00005	0.000300	0.00781	< 0.0001	-	0.00300	< 0.000015	11.1	0.000400	< 0.00002	< 0.0001
	WQ22	epi		9/12/2012	0.00500	< 0.00005	0.000300	0.00706	< 0.0001	-	< 0.001	< 0.000015	11.7	< 0.0003	0.0000200	< 0.0001
	WQ22	hypo		9/12/2012	0.0150	< 0.00005	0.000300	0.00713	< 0.0001	-	< 0.001	< 0.000015	11.6	< 0.0003	< 0.00002	< 0.0001
	WQ22	epi		2/4/2013	0.00800	0.0000800	0.000300	0.00702	< 0.0001	-	0.00100	< 0.000015	14.1	< 0.0003	< 0.00002	0.000400
	WQ22	hypo		2/4/2013	0.00400	< 0.00005	0.000200	0.00665	< 0.0001	-	< 0.001	< 0.000015	13.3	< 0.0003	< 0.00002	0.000700
	WQ23	epi		6/26/2012	0.0130	< 0.00005	0.000500	0.00221	< 0.0001	-	0.00100	< 0.000015	5.10	0.000300	< 0.00002	< 0.0001
	WQ23	hypo		6/26/2012	< 0.002	< 0.00005	0.000400	0.00360	< 0.0001	-	< 0.001	< 0.000015	6.80	< 0.0003	< 0.00002	< 0.0001
	WQ23	meta		6/26/2012	< 0.002	< 0.00005	0.000500	0.00304	< 0.0001	-	< 0.001	< 0.000015	6.40	< 0.0003	< 0.00002	< 0.0001
	WQ23	epi		9/12/2012	0.00600	0.0000700	0.000800	0.00210	< 0.0001	-	< 0.001	< 0.000015	5.50	0.000400	< 0.00002	< 0.0001
	WQ23	hypo		9/12/2012	0.00200	0.0000700	0.000700	0.00476	< 0.0001	-	< 0.001	< 0.000015	7.60	0.000300	0.0000300	< 0.0001
	WQ23	meta		9/12/2012	0.00200	0.0000600	0.000400	0.00392	< 0.0001	-	< 0.001	< 0.000015	7.60	0.000300	< 0.00002	< 0.0001
	WQ23	epi		3/13/2013	< 0.002	0.0000700	0.000600	0.00260	< 0.0001	-	< 0.001	< 0.000015	8.10	< 0.0003	< 0.00002	0.000200
	WQ23	hypo		3/13/2013	0.0110	< 0.00005	0.0127	0.00671	< 0.0001	-	< 0.001	< 0.000015	9.50	< 0.0003	0.000140	0.000200
	WQ23	meta		3/13/2013	< 0.002	0.0000600	0.000600	0.00304	< 0.0001	-	< 0.001	< 0.000015	8.10	< 0.0003	< 0.00002	0.000100
	WQ23	epi		4/15/2014	0.00200	<0.00005	0.000500	0.00289	<0.0001	-	<0.001	<0.000015	7.20	<0.0003	<0.00002	0.000200
	WQ23	hypo		4/15/2014	0.00200	<0.00005	0.000400	0.00357	<0.0001	-	0.00200	<0.000015	7.10	0.000400	<0.00002	0.00110
	WQ23	meta		7/1/2014	0.00400	<0.00005	0.000500	0.00288	<0.0001	-	<0.001	<0.000015	7.10	<0.0003	<0.00002	0.000400
	WQ23	meta		9/23/2014	0.00500	0.0000800	0.000900	0.00238	<0.0001	-	<0.001	<0.000015	7.30	<0.0003	<0.00002	0.000300
	WQ23	meta		12/8/2014	<0.002	<0.00005	0.000800	0.00299	<0.0001	-	<0.001	<0.000015	7.60	<0.0003	<0.00002	<0.0001

Appendix D-1: Lake Water Quality Data, Blackwater Gold Project, 2012 to 2020

LabID	Site	Depth	QAQC	Date	Dissolved Metals											
					Aluminum (Al)-Dissolved	Antimony (Sb)-Dissolved	Arsenic (As)-Dissolved	Barium (Ba)-Dissolved	Beryllium (Be)-Dissolved	Bismuth (Bi)-Dissolved	Boron (B)-Dissolved	Cadmium (Cd)-Dissolved	Calcium (Ca)-Dissolved	Chromium (Cr)-Dissolved	Cobalt (Co)-Dissolved	Copper (Cu)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2060101-3	WQ23	meta	Dup	2/22/2018	0.00420	<0.00010	0.000750	0.00265	<0.00010	<0.000050	<0.010	<0.0000050	6.95	<0.00010	<0.00010	<0.00050
L2060101-2	WQ23	meta		2/22/2018	0.00490	<0.00010	0.000780	0.00257	<0.00010	<0.000050	<0.010	<0.0000050	6.82	<0.00010	<0.00010	<0.00050
L2102737-2	WQ23	meta		5/28/2018	0.0346	<0.00010	0.000660	0.00250	<0.00010	<0.000050	<0.010	0.00000720	5.68	0.000110	<0.00010	<0.00050
L2144658-2	WQ23	meta		8/8/2018	0.0145	<0.00010	0.000930	0.00261	<0.00010	<0.000050	<0.010	<0.0000050	6.05	<0.00010	<0.00010	<0.00050
L2204086-1	WQ23	meta		11/28/2018	<0.0030	<0.00010	0.000720	0.00358	<0.00010	<0.000050	<0.010	<0.0000050	7.61	<0.00010	<0.00010	<0.00050
L2233329-2	WQ23	epi		2/13/2019	0.00390	<0.00010	0.000760	0.00353	<0.00010	<0.000050	<0.010	<0.0000050	7.40	<0.00010	<0.00010	<0.00050
L2282191-1	WQ23	epi		5/28/2019	0.0186	<0.00010	0.000640	0.00263	<0.00010	<0.000050	<0.010	<0.0000050	5.75	<0.00010	<0.00010	<0.00050
L2329543-2	WQ23	epi		8/13/2019	0.0159	<0.00010	0.000810	0.00255	<0.00010	<0.000050	<0.010	<0.0000050	5.42	<0.00010	<0.00010	<0.00050
L2378037-1	WQ23	epi		11/4/2019	0.00450	<0.00010	0.000810	0.00341	<0.00010	<0.000050	<0.010	<0.0000050	7.23	<0.00010	<0.00010	<0.00050
VA20A2211-004	WQ23	Surface		2/20/2020	0.0164	0.000100	0.000650	0.00270	<0.000020	<0.000050	<0.010	<0.0000050	5.62	<0.00010	<0.00010	0.000350
VA20A7202-001	WQ23	Surface		5/26/2020	0.0239	<0.00010	0.000560	0.00284	<0.000020	<0.000050	<0.010	<0.0000050	5.53	<0.00010	<0.00010	0.000530
VA20B3264-001	WQ23	Surface		8/19/2020	0.0121	<0.00010	0.000800	0.00230	<0.000020	<0.000050	<0.010	<0.0000050	5.51	<0.00010	<0.00010	0.000340
	WQ24	epi		6/26/2012	0.0140	<0.00005	0.000400	0.00268	<0.0001	-	<0.001	<0.000015	5.00	0.000300	<0.00002	<0.0001
	WQ24	hypo		6/26/2012	0.0140	<0.00005	0.000300	0.00264	<0.0001	-	<0.001	<0.000015	4.90	0.000300	<0.00002	<0.0001
	WQ24	epi		9/12/2012	0.00800	0.0000700	0.000400	0.00244	<0.0001	-	<0.001	<0.000015	5.10	<0.0003	<0.00002	<0.0001
	WQ24	hypo		9/12/2012	0.00800	0.0000700	0.000400	0.00245	<0.0001	-	<0.001	0.0000180	5.10	<0.0003	<0.00002	<0.0001
	WQ24	epi		3/13/2013	0.00300	0.0000600	0.000400	0.00251	<0.0001	-	<0.001	<0.000015	6.80	<0.0003	<0.00002	0.000200
	WQ24	hypo		3/13/2013	0.00600	<0.00005	0.00550	0.00792	<0.0001	-	<0.001	<0.000015	10.4	<0.0003	0.0000900	0.000200
	WQ24	epi		4/15/2014	0.00400	<0.00005	0.000300	0.00296	<0.0001	-	<0.001	<0.000015	6.40	<0.0003	<0.00002	0.000200
	WQ24	hypo		4/15/2014	0.00400	<0.00005	0.000400	0.00399	<0.0001	-	<0.001	<0.000015	6.90	<0.0003	<0.00002	0.000200
	WQ24	meta		7/1/2014	0.0140	<0.00005	0.000300	0.00271	<0.0001	-	<0.001	<0.000015	5.80	<0.0003	<0.00002	0.000200
	WQ24	meta		9/23/2014	0.00900	0.0000600	0.000500	0.00300	<0.0001	-	<0.001	<0.000015	6.20	<0.0003	<0.00002	0.000300
	WQ24	meta		12/8/2014	0.00300	<0.00005	0.000400	0.00304	<0.0001	-	<0.001	<0.000015	6.40	<0.0003	<0.00002	0.000200
	WQ25	epi		9/12/2012	0.0180	<0.00005	0.000100	0.00723	<0.0001	-	<0.001	<0.000015	6.30	<0.0003	<0.00002	<0.0001
	WQ25	hypo		9/12/2012	0.0180	<0.00005	0.000200	0.00701	<0.0001	-	<0.001	0.0000170	6.20	<0.0003	<0.00002	<0.0001
	WQ25	epi		3/13/2013	0.0120	<0.00005	0.000200	0.00750	<0.0001	-	<0.001	<0.000015	8.60	<0.0003	<0.00002	0.000200
	WQ25	hypo		3/13/2013	0.0130	<0.00005	0.000200	0.00874	<0.0001	-	<0.001	<0.000015	9.20	<0.0003	<0.00002	0.000200
	WQ25	epi		4/15/2014	0.0170	<0.00005	0.000100	0.00881	<0.0001	-	<0.001	<0.000015	8.20	<0.0003	<0.00002	0.000200
	WQ25	hypo		4/15/2014	0.0200	<0.00005	0.00110	0.0254	<0.0001	-	<0.001	<0.000015	13.3	0.000300	0.000390	0.000100
	WQ25	meta		7/1/2014	0.0420	<0.00005	0.000200	0.00804	<0.0001	-	<0.001	<0.000015	7.00	<0.0003	<0.00002	0.000200
	WQ25	meta		9/23/2014	0.0130	<0.00005	0.000200	0.00810	<0.0001	-	<0.001	<0.000015	7.90	<0.0003	<0.00002	0.000300
	WQ25	meta		12/8/2014	0.00800	<0.00005	0.000200	0.00924	<0.0001	-	<0.001	<0.000015	8.30	<0.0003	<0.00002	0.000200

Notes:
 "-" indicates parameter was not analyzed.
 "<" value is below the detection limit

Appendix D-1: Lake Water Quality Data, Blackwater Gold Project, 2012 to 2020

LabID	Site	Depth	QAQC	Date	Dissolved Metals											
					Iron (Fe)-Dissolved	Lead (Pb)-Dissolved	Lithium (Li)-Dissolved	Magnesium (Mg)-Dissolved	Manganese (Mn)-Dissolved	Mercury (Hg)-Dissolved	Molybdenum (Mo)-Dissolved	Nickel (Ni)-Dissolved	Phosphorus (P)-Dissolved	Potassium (K)-Dissolved	Selenium (Se)-Dissolved	Silicon (Si)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ20	epi		6/25/2012	0.00510	< 0.00005	< 0.001	4.98	0.00114	< 0.000005	0.00122	0.000150	< 0.01	0.700	< 0.0006	5.50
	WQ20	hypo		6/25/2012	0.00660	< 0.00005	< 0.001	4.90	0.00585	< 0.000005	0.000830	0.000150	< 0.01	0.700	< 0.0006	5.38
	WQ20	meta		6/25/2012	0.00560	< 0.00005	< 0.001	5.00	0.000540	< 0.000005	0.000960	0.000110	< 0.01	0.700	< 0.0006	5.38
	WQ20	epi		9/12/2012	0.0268	< 0.00005	< 0.001	5.27	0.0692	< 0.000005	0.000670	0.000140	0.0200	0.900	< 0.0006	7.67
	WQ20	hypo		9/12/2012	0.0262	0.000450	< 0.001	5.27	0.0696	< 0.000005	0.000650	0.000120	0.0200	0.900	< 0.0006	7.60
	WQ20	meta		9/12/2012	0.0259	0.000250	< 0.001	5.31	0.0696	< 0.000005	0.000610	0.000130	0.0200	0.900	< 0.0006	7.74
	WQ20	epi		2/7/2013	0.00710	< 0.00005	< 0.001	7.16	0.00577	< 0.000005	0.000620	< 0.00005	< 0.01	1.20	< 0.0006	8.62
	WQ20	hypo		2/7/2013	0.321	< 0.00005	< 0.001	6.46	0.562	< 0.000005	0.000570	< 0.00005	0.130	1.10	< 0.0006	10.3
	WQ20	meta		2/7/2013	0.00740	< 0.00005	< 0.001	6.58	0.00404	< 0.000005	0.000610	< 0.00005	0.0100	1.10	< 0.0006	7.94
	WQ21	epi		6/25/2012	0.0136	< 0.00005	< 0.001	4.28	0.000810	< 0.000005	0.000610	0.000200	< 0.01	0.700	< 0.0006	3.58
	WQ21	hypo		6/25/2012	0.0131	< 0.00005	< 0.001	4.33	0.000330	< 0.000005	0.000520	0.000190	< 0.01	0.700	< 0.0006	4.31
	WQ21	meta		6/25/2012	0.0141	< 0.00005	< 0.001	4.26	0.000230	< 0.000005	0.000560	0.000210	< 0.01	0.700	< 0.0006	3.63
	WQ21	epi		9/12/2012	0.00660	< 0.00005	< 0.001	4.38	0.000420	< 0.000005	0.000520	0.000220	< 0.01	0.700	< 0.0006	3.25
	WQ21	hypo		9/12/2012	0.0147	0.000160	< 0.001	4.46	0.00162	< 0.000005	0.000510	0.000210	0.0200	0.800	< 0.0006	5.75
	WQ21	meta		9/12/2012	0.00820	0.000300	< 0.001	4.51	0.000440	< 0.000005	0.000600	0.000210	< 0.01	0.800	< 0.0006	4.10
	WQ21	epi		1/28/2013	0.00720	0.000480	< 0.001	5.57	0.000410	< 0.000005	0.000630	0.000120	0.0200	1.00	< 0.0006	5.92
	WQ21	hypo		1/28/2013	0.00750	0.000770	< 0.001	5.02	0.000340	< 0.000005	0.000470	0.0000900	0.0200	0.900	< 0.0006	5.22
	WQ21	meta		1/28/2013	0.00870	0.000830	< 0.001	4.98	0.000320	< 0.000005	0.000500	0.000100	0.0200	0.900	< 0.0006	4.94
	WQ21	epi		4/15/2014	0.00980	<0.00005	<0.001	4.17	0.00147	<0.000005	0.000440	0.000160	0.0100	0.700	<0.0001	3.82
	WQ21	hypo		4/15/2014	0.0296	<0.00005	<0.001	4.44	0.0520	<0.000005	0.000450	0.000190	0.0300	0.800	<0.0001	4.89
	WQ21	meta		4/15/2014	0.00800	<0.00005	<0.001	4.39	0.00109	<0.000005	0.000470	0.000180	0.0200	0.800	<0.0001	4.04
	WQ21	meta		7/1/2014	0.0139	<0.00005	<0.001	4.68	0.000990	<0.000005	0.000270	<0.00005	0.0100	0.800	<0.0001	5.03
	WQ21	meta		9/23/2014	0.00860	<0.00005	<0.001	4.92	0.000820	<0.000005	0.000540	0.000240	<0.01	0.900	0.000100	3.80
	WQ22	epi		6/26/2012	0.0748	< 0.00005	< 0.001	2.84	0.00167	< 0.000005	0.000320	0.000110	< 0.01	0.900	< 0.0006	3.20
	WQ22	hypo		6/26/2012	0.277	< 0.00005	< 0.001	2.87	0.130	< 0.000005	0.000280	0.0000800	< 0.01	0.900	< 0.0006	4.36
	WQ22	epi		9/12/2012	0.115	< 0.00005	< 0.001	3.05	0.0298	< 0.000005	0.000310	0.000120	< 0.01	1.00	< 0.0006	4.92
	WQ22	hypo		9/12/2012	0.129	0.000180	< 0.001	3.07	0.0314	< 0.000005	0.000310	0.000120	< 0.01	1.00	< 0.0006	5.14
	WQ22	epi		2/4/2013	0.0537	0.000610	< 0.001	3.90	0.00815	< 0.000005	0.000290	< 0.00005	0.0200	1.30	< 0.0006	6.26
	WQ22	hypo		2/4/2013	0.0539	0.00178	< 0.001	3.99	0.0287	< 0.000005	0.000300	< 0.00005	0.0100	1.30	< 0.0006	6.57
	WQ23	epi		6/26/2012	0.00920	< 0.00005	< 0.001	0.880	0.000830	< 0.000005	0.000550	< 0.00005	< 0.01	< 0.5	< 0.0006	4.03
	WQ23	hypo		6/26/2012	0.0395	< 0.00005	< 0.001	1.26	0.0308	< 0.000005	0.000650	< 0.00005	< 0.01	< 0.5	< 0.0006	4.40
	WQ23	meta		6/26/2012	0.0119	< 0.00005	< 0.001	1.26	0.00118	< 0.000005	0.000650	< 0.00005	< 0.01	< 0.5	< 0.0006	3.94
	WQ23	epi		9/12/2012	0.00750	< 0.00005	< 0.001	1.05	0.00104	< 0.000005	0.000700	< 0.00005	< 0.01	< 0.5	< 0.0006	4.07
	WQ23	hypo		9/12/2012	0.0756	0.0000800	< 0.001	1.36	0.121	< 0.000005	0.000840	< 0.00005	< 0.01	< 0.5	< 0.0006	5.31
	WQ23	meta		9/12/2012	0.0107	0.0000700	< 0.001	1.29	0.00546	< 0.000005	0.000750	< 0.00005	< 0.01	< 0.5	< 0.0006	4.21
	WQ23	epi		3/13/2013	0.0135	< 0.00005	< 0.001	1.34	< 0.00005	< 0.000005	0.000730	< 0.00005	< 0.01	< 0.5	< 0.0006	3.67
	WQ23	hypo		3/13/2013	4.32	< 0.00005	< 0.001	1.57	0.516	< 0.000005	0.00116	0.0000500	0.350	< 0.5	< 0.0006	7.16
	WQ23	meta		3/13/2013	0.0193	< 0.00005	< 0.001	1.38	0.0249	< 0.000005	0.000710	< 0.00005	0.0100	< 0.5	< 0.0006	4.23
	WQ23	epi		4/15/2014	0.0125	<0.00005	<0.001	1.20	0.00216	<0.000005	0.000680	0.0000500	<0.01	<0.5	<0.0001	3.72
	WQ23	hypo		4/15/2014	0.0141	<0.00005	<0.001	1.18	0.0208	<0.000005	0.000630	0.000360	0.0100	0.500	<0.0001	4.00
	WQ23	meta		7/1/2014	0.00770	<0.00005	<0.001	1.19	0.000730	<0.000005	0.000390	<0.00005	<0.01	<0.5	<0.0001	3.85
	WQ23	meta		9/23/2014	0.00850	<0.00005	<0.001	1.26	0.00153	<0.000005	0.000810	0.0000700	<0.01	<0.5	<0.0001	3.80
	WQ23	meta		12/8/2014	0.0308	<0.00005	<0.001	1.25	0.00579	<0.000005	0.000730	<0.00005	<0.01	<0.5	<0.0001	4.44

Appendix D-1: Lake Water Quality Data, Blackwater Gold Project, 2012 to 2020

LabID	Site	Depth	QAQC	Date	Dissolved Metals											
					Iron (Fe)-Dissolved	Lead (Pb)-Dissolved	Lithium (Li)-Dissolved	Magnesium (Mg)-Dissolved	Manganese (Mn)-Dissolved	Mercury (Hg)-Dissolved	Molybdenum (Mo)-Dissolved	Nickel (Ni)-Dissolved	Phosphorus (P)-Dissolved	Potassium (K)-Dissolved	Selenium (Se)-Dissolved	Silicon (Si)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2060101-3	WQ23	meta	Dup	2/22/2018	<0.030	<0.000050	<0.0010	1.18	0.000580	<0.0000050	0.000693	<0.00050	<0.30	0.342	<0.000050	4.37
L2060101-2	WQ23	meta		2/22/2018	<0.030	<0.000050	<0.0010	1.19	0.000630	0.00000520	0.000702	<0.00050	<0.30	0.339	<0.000050	4.33
L2102737-2	WQ23	meta		5/28/2018	<0.030	<0.000050	<0.0010	0.869	0.00264	<0.0000050	0.000568	<0.00050	<0.30	0.329	<0.000050	4.38
L2144658-2	WQ23	meta		8/8/2018	<0.030	<0.000050	<0.0010	1.06	0.00198	0.00000800	0.000717	<0.00050	<0.30	0.348	<0.000050	3.83
L2204086-1	WQ23	meta		11/28/2018	<0.030	<0.000050	<0.0010	1.24	0.00387	<0.0000050	0.000768	<0.00050	<0.30	0.428	<0.000050	3.43
L2233329-2	WQ23	epi		2/13/2019	<0.030	<0.000050	<0.0010	1.26	0.00143	0.00000620	0.000788	<0.00050	<0.30	0.422	<0.000050	3.76
L2282191-1	WQ23	epi		5/28/2019	<0.030	<0.000050	<0.0010	0.924	0.00181	0.00000920	0.000591	<0.00050	<0.30	0.334	<0.000050	3.52
L2329543-2	WQ23	epi		8/13/2019	<0.030	<0.000050	<0.0010	0.938	0.00235	0.00000660	0.000603	<0.00050	<0.30	0.322	<0.000050	3.28
L2378037-1	WQ23	epi		11/4/2019	0.0460	<0.000050	<0.0010	1.22	0.0135	<0.0000050	0.000758	<0.00050	<0.30	0.400	<0.000050	3.75
VA20A2211-004	WQ23	Surface		2/20/2020	0.0170	<0.000050	<0.0010	0.919	0.00170	<0.0000050	0.000640	<0.00050	<0.050	0.328	<0.000050	4.16
VA20A7202-001	WQ23	Surface		5/26/2020	0.0160	<0.000050	<0.0010	0.920	0.00258	0.0000118	0.000540	<0.00050	<0.050	0.351	<0.000050	3.83
VA20B3264-001	WQ23	Surface		8/19/2020	<0.010	<0.000050	<0.0010	0.951	0.00143	0.0000175	0.000702	<0.00050	<0.050	0.318	<0.000050	3.67
	WQ24	epi		6/26/2012	0.0263	< 0.00005	< 0.001	0.980	0.000790	< 0.000005	0.000720	< 0.00005	< 0.01	< 0.5	< 0.0006	1.98
	WQ24	hypo		6/26/2012	0.0263	< 0.00005	< 0.001	0.970	0.000810	< 0.000005	0.000700	< 0.00005	< 0.01	< 0.5	< 0.0006	1.77
	WQ24	epi		9/12/2012	0.00690	< 0.00005	< 0.001	1.10	0.00133	< 0.000005	0.000760	< 0.00005	< 0.01	< 0.5	< 0.0006	1.83
	WQ24	hypo		9/12/2012	0.00790	0.0000800	< 0.001	1.09	0.00154	< 0.000005	0.000880	< 0.00005	< 0.01	< 0.5	< 0.0006	1.71
	WQ24	epi		3/13/2013	0.00510	< 0.00005	< 0.001	1.30	< 0.00005	< 0.000005	0.000870	0.0000600	< 0.01	< 0.5	< 0.0006	1.26
	WQ24	hypo		3/13/2013	3.23	< 0.00005	< 0.001	1.70	1.01	< 0.000005	0.00228	< 0.00005	0.110	0.500	< 0.0006	2.42
	WQ24	epi		4/15/2014	0.00440	<0.00005	<0.001	1.18	0.00118	<0.000005	0.000900	<0.00005	<0.01	<0.5	<0.0001	1.17
	WQ24	hypo		4/15/2014	0.147	<0.00005	<0.001	1.26	0.142	<0.000005	0.00104	<0.00005	<0.01	<0.5	<0.0001	1.80
	WQ24	meta		7/1/2014	0.0170	<0.00005	<0.001	1.08	0.000530	0.0000220	0.000540	<0.00005	<0.01	<0.5	<0.0001	1.97
	WQ24	meta		9/23/2014	0.00970	<0.00005	<0.001	1.21	0.000860	<0.000005	0.000940	0.0000600	0.0100	<0.5	<0.0001	1.51
	WQ24	meta		12/8/2014	0.00520	<0.00005	<0.001	1.17	0.000450	<0.000005	0.000830	<0.00005	<0.01	<0.5	<0.0001	1.33
	WQ25	epi		9/12/2012	0.0443	< 0.00005	< 0.001	0.960	0.00189	< 0.000005	0.000710	0.0000700	< 0.01	< 0.5	< 0.0006	2.44
	WQ25	hypo		9/12/2012	0.0447	0.0000700	< 0.001	0.970	0.00193	0.00000500	0.000690	0.0000600	< 0.01	< 0.5	< 0.0006	2.47
	WQ25	epi		3/13/2013	0.0287	< 0.00005	< 0.001	1.16	0.00191	< 0.000005	0.000630	0.0000700	< 0.01	< 0.5	< 0.0006	1.58
	WQ25	hypo		3/13/2013	0.0435	< 0.00005	< 0.001	1.24	0.0635	< 0.000005	0.000620	0.0000600	< 0.01	< 0.5	< 0.0006	1.91
	WQ25	epi		4/15/2014	0.0454	<0.00005	<0.001	1.10	0.00504	<0.000005	0.000600	0.0000500	<0.01	<0.5	<0.0001	2.16
	WQ25	hypo		4/15/2014	7.11	<0.00005	<0.001	1.52	1.54	<0.000005	0.00228	0.0000600	0.0400	<0.5	<0.0001	3.94
	WQ25	meta		7/1/2014	0.0985	<0.00005	<0.001	0.940	0.00158	<0.000005	0.000330	<0.00005	<0.01	<0.5	<0.0001	2.58
	WQ25	meta		9/23/2014	0.0516	<0.00005	<0.001	1.09	0.00104	<0.000005	0.000720	0.0000900	<0.01	<0.5	<0.0001	1.49
	WQ25	meta		12/8/2014	0.0257	<0.00005	<0.001	1.10	0.00326	<0.000005	0.000570	<0.00005	<0.01	<0.5	<0.0001	1.56

Notes:
 "-" indicates parameter was not analyzed.
 "<" value is below the detection limit

Appendix D-1: Lake Water Quality Data, Blackwater Gold Project, 2012 to 2020

LabID	Site	Depth	QAQC	Date	Dissolved Metals									
					Silver (Ag)-Dissolved	Sodium (Na)-Dissolved	Strontium (Sr)-Dissolved	Sulfur (S)-Dissolved	Thallium (Tl)-Dissolved	Tin (Sn)-Dissolved	Titanium (Ti)-Dissolved	Uranium (U)-Dissolved	Vanadium (V)-Dissolved	Zinc (Zn)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	WQ20	epi		6/25/2012	< 0.00005	3.40	0.0967	-	< 0.00005	< 0.0001	< 0.0002	< 0.00005	0.000130	0.00140
	WQ20	hypo		6/25/2012	< 0.00005	3.20	0.0966	-	< 0.00005	< 0.0001	< 0.0002	< 0.00005	0.000140	0.00490
	WQ20	meta		6/25/2012	< 0.00005	3.20	0.0961	-	< 0.00005	< 0.0001	< 0.0002	< 0.00005	0.000110	0.00130
	WQ20	epi		9/12/2012	< 0.00005	3.10	0.101	-	< 0.00005	< 0.0001	< 0.0002	< 0.00005	0.000150	0.00360
	WQ20	hypo		9/12/2012	< 0.00005	3.10	0.0993	-	< 0.00005	< 0.0001	< 0.0002	< 0.00005	0.000150	0.0112
	WQ20	meta		9/12/2012	< 0.00005	3.10	0.0995	-	< 0.00005	< 0.0001	< 0.0002	< 0.00005	0.000160	0.00460
	WQ20	epi		2/7/2013	< 0.00005	4.20	0.112	-	< 0.00005	< 0.0001	< 0.0002	< 0.00005	< 0.00005	0.00140
	WQ20	hypo		2/7/2013	< 0.00005	3.70	0.113	-	< 0.00005	< 0.0001	0.000200	< 0.00005	< 0.00005	0.00280
	WQ20	meta		2/7/2013	< 0.00005	3.90	0.111	-	< 0.00005	< 0.0001	< 0.0002	< 0.00005	< 0.00005	0.00170
	WQ21	epi		6/25/2012	< 0.00005	3.40	0.0906	-	< 0.00005	< 0.0001	< 0.0002	0.0000800	0.000120	0.00110
	WQ21	hypo		6/25/2012	< 0.00005	3.50	0.0927	-	< 0.00005	< 0.0001	< 0.0002	0.0000800	0.000110	0.00170
	WQ21	meta		6/25/2012	< 0.00005	3.40	0.0897	-	< 0.00005	< 0.0001	< 0.0002	0.0000800	0.000110	0.00110
	WQ21	epi		9/12/2012	< 0.00005	3.20	0.0913	-	< 0.00005	< 0.0001	< 0.0002	0.0000900	0.000150	0.00340
	WQ21	hypo		9/12/2012	< 0.00005	3.30	0.0933	-	< 0.00005	< 0.0001	< 0.0002	0.0000800	0.0000700	0.00470
	WQ21	meta		9/12/2012	< 0.00005	3.30	0.108	-	< 0.00005	< 0.0001	< 0.0002	0.000100	0.000130	0.00330
	WQ21	epi		1/28/2013	< 0.00005	4.10	0.107	-	< 0.00005	< 0.0001	< 0.0002	0.000110	< 0.00005	0.00250
	WQ21	hypo		1/28/2013	< 0.00005	3.80	0.0975	-	< 0.00005	< 0.0001	0.000200	0.0000800	< 0.00005	0.0158
	WQ21	meta		1/28/2013	< 0.00005	3.80	0.0994	-	< 0.00005	< 0.0001	< 0.0002	0.0000800	< 0.00005	0.0119
	WQ21	epi		4/15/2014	< 0.00005	3.10	0.0845	-	< 0.00005	< 0.0001	< 0.0002	0.0000700	< 0.00005	0.00250
	WQ21	hypo		4/15/2014	< 0.00005	3.40	0.0900	-	< 0.00005	< 0.0001	< 0.0002	0.0000800	< 0.00005	0.00410
	WQ21	meta		4/15/2014	< 0.00005	3.30	0.0905	-	< 0.00005	< 0.0001	< 0.0002	0.0000800	< 0.00005	0.00530
	WQ21	meta		7/1/2014	< 0.00005	3.50	0.0950	-	< 0.00005	< 0.0001	< 0.0002	0.0000800	< 0.00005	0.00220
	WQ21	meta		9/23/2014	< 0.00005	3.60	0.0985	-	< 0.00005	< 0.0001	< 0.0002	0.0000800	< 0.00005	0.00340
	WQ22	epi		6/26/2012	< 0.00005	2.90	0.0630	-	< 0.00005	< 0.0001	0.000200	< 0.00005	0.000110	0.00440
	WQ22	hypo		6/26/2012	< 0.00005	2.80	0.0658	-	< 0.00005	< 0.0001	0.000200	< 0.00005	0.0000500	0.00310
	WQ22	epi		9/12/2012	< 0.00005	2.90	0.0666	-	< 0.00005	< 0.0001	< 0.0002	< 0.00005	0.000130	0.00560
	WQ22	hypo		9/12/2012	< 0.00005	2.90	0.0663	-	< 0.00005	< 0.0001	< 0.0002	< 0.00005	0.000120	0.00500
	WQ22	epi		2/4/2013	< 0.00005	3.80	0.0736	-	< 0.00005	< 0.0001	0.000200	< 0.00005	< 0.00005	0.00510
	WQ22	hypo		2/4/2013	< 0.00005	3.90	0.0680	-	< 0.00005	< 0.0001	< 0.0002	< 0.00005	< 0.00005	0.0101
	WQ23	epi		6/26/2012	< 0.00005	2.00	0.0373	-	< 0.00005	< 0.0001	< 0.0002	0.000150	< 0.00005	0.000800
	WQ23	hypo		6/26/2012	< 0.00005	2.50	0.0490	-	< 0.00005	< 0.0001	< 0.0002	0.0000800	< 0.00005	0.00200
	WQ23	meta		6/26/2012	< 0.00005	2.80	0.0459	-	< 0.00005	< 0.0001	< 0.0002	0.0000900	< 0.00005	0.00260
	WQ23	epi		9/12/2012	< 0.00005	2.00	0.0395	-	< 0.00005	< 0.0001	< 0.0002	0.000140	< 0.00005	0.00280
	WQ23	hypo		9/12/2012	< 0.00005	2.30	0.0538	-	< 0.00005	< 0.0001	< 0.0002	0.0000900	< 0.00005	0.00490
	WQ23	meta		9/12/2012	< 0.00005	2.20	0.0533	-	< 0.00005	< 0.0001	< 0.0002	0.0000800	< 0.00005	0.00440
	WQ23	epi		3/13/2013	< 0.00005	2.50	0.0486	-	< 0.00005	< 0.0001	< 0.0002	0.000100	< 0.00005	0.00270
	WQ23	hypo		3/13/2013	< 0.00005	2.50	0.0591	-	< 0.00005	< 0.0001	0.000600	0.000260	< 0.00005	0.000700
	WQ23	meta		3/13/2013	< 0.00005	2.50	0.0495	-	< 0.00005	< 0.0001	< 0.0002	0.0000900	< 0.00005	0.000700
	WQ23	epi		4/15/2014	< 0.00005	2.20	0.0446	-	< 0.00005	< 0.0001	< 0.0002	0.0000800	< 0.00005	0.00420
	WQ23	hypo		4/15/2014	< 0.00005	2.30	0.0439	-	< 0.00005	< 0.0001	< 0.0002	0.0000700	< 0.00005	0.0173
	WQ23	meta		7/1/2014	< 0.00005	2.20	0.0428	-	< 0.00005	< 0.0001	< 0.0002	0.000110	< 0.00005	0.00600
	WQ23	meta		9/23/2014	< 0.00005	2.30	0.0452	-	< 0.00005	< 0.0001	< 0.0002	0.000150	< 0.00005	0.00610
	WQ23	meta		12/8/2014	< 0.00005	2.20	0.0472	-	< 0.00005	< 0.0001	< 0.0002	0.0000800	< 0.00005	0.00200

Appendix D-1: Lake Water Quality Data, Blackwater Gold Project, 2012 to 2020

LabID	Site	Depth	QAQC	Date	Dissolved Metals									
					Silver (Ag)-Dissolved	Sodium (Na)-Dissolved	Strontium (Sr)-Dissolved	Sulfur (S)-Dissolved	Thallium (Tl)-Dissolved	Tin (Sn)-Dissolved	Titanium (Ti)-Dissolved	Uranium (U)-Dissolved	Vanadium (V)-Dissolved	Zinc (Zn)-Dissolved
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2060101-3	WQ23	meta	Dup	2/22/2018	<0.000010	2.40	0.0457	<0.50	<0.000010	<0.00010	<0.010	0.000110	<0.00050	<0.0030
L2060101-2	WQ23	meta		2/22/2018	<0.000010	2.30	0.0454	<0.50	<0.000010	<0.00010	<0.010	0.000115	<0.00050	<0.0030
L2102737-2	WQ23	meta		5/28/2018	<0.000010	<2.0	0.0354	<0.50	<0.000010	<0.00010	<0.010	0.000160	<0.00050	0.00350
L2144658-2	WQ23	meta		8/8/2018	<0.000010	2.20	0.0416	<0.50	<0.000010	<0.00010	<0.010	0.000193	<0.00050	0.00200
L2204086-1	WQ23	meta		11/28/2018	<0.000010	2.30	0.0531	0.560	<0.000010	<0.00010	<0.010	0.000132	<0.00050	0.00170
L2233329-2	WQ23	epi		2/13/2019	<0.000010	2.50	0.0478	<0.50	<0.000010	<0.00010	<0.010	0.000117	<0.00050	0.00340
L2282191-1	WQ23	epi		5/28/2019	<0.000010	2.00	0.0393	<0.50	<0.000010	<0.00010	<0.010	0.000158	<0.00050	0.00570
L2329543-2	WQ23	epi		8/13/2019	<0.000010	2.00	0.0357	<0.50	<0.000010	<0.00010	<0.010	0.000165	<0.00050	0.00230
L2378037-1	WQ23	epi		11/4/2019	<0.000010	2.60	0.0469	0.670	<0.000010	<0.00010	<0.010	0.000111	<0.00050	0.00410
VA20A2211-004	WQ23	Surface		2/20/2020	<0.000010	1.92	0.0422	<0.50	<0.000010	<0.00010	<0.00030	0.000121	<0.00050	0.00590
VA20A7202-001	WQ23	Surface		5/26/2020	<0.000010	1.91	0.0368	<0.50	<0.000010	<0.00010	<0.00030	0.000132	<0.00050	0.0145
VA20B3264-001	WQ23	Surface		8/19/2020	<0.000010	2.18	0.0380	<0.50	<0.000010	<0.00010	<0.00030	0.000167	<0.00050	0.00260
	WQ24	epi		6/26/2012	< 0.00005	1.80	0.0373	-	< 0.00005	< 0.0001	< 0.0002	0.000290	< 0.00005	0.00190
	WQ24	hypo		6/26/2012	< 0.00005	1.70	0.0362	-	< 0.00005	< 0.0001	< 0.0002	0.000280	< 0.00005	0.00150
	WQ24	epi		9/12/2012	< 0.00005	1.70	0.0370	-	< 0.00005	< 0.0001	< 0.0002	0.000260	< 0.00005	0.00290
	WQ24	hypo		9/12/2012	< 0.00005	1.70	0.0371	-	< 0.00005	< 0.0001	< 0.0002	0.000270	< 0.00005	0.00460
	WQ24	epi		3/13/2013	< 0.00005	2.00	0.0416	-	< 0.00005	< 0.0001	< 0.0002	0.000250	< 0.00005	0.00250
	WQ24	hypo		3/13/2013	< 0.00005	2.20	0.0621	-	< 0.00005	< 0.0001	< 0.0002	0.000350	< 0.00005	0.00120
	WQ24	epi		4/15/2014	<0.00005	1.90	0.0401	-	<0.00005	<0.0001	<0.0002	0.000270	<0.00005	0.00220
	WQ24	hypo		4/15/2014	<0.00005	1.80	0.0433	-	<0.00005	<0.0001	<0.0002	0.000260	<0.00005	0.00270
	WQ24	meta		7/1/2014	<0.00005	1.70	0.0364	-	<0.00005	<0.0001	<0.0002	0.000280	<0.00005	0.00390
	WQ24	meta		9/23/2014	<0.00005	1.80	0.0407	-	<0.00005	<0.0001	<0.0002	0.000290	<0.00005	0.00400
	WQ24	meta		12/8/2014	<0.00005	1.80	0.0398	-	<0.00005	<0.0001	<0.0002	0.000250	<0.00005	0.00310
	WQ25	epi		9/12/2012	< 0.00005	1.50	0.0675	-	< 0.00005	< 0.0001	< 0.0002	0.000140	< 0.00005	0.00340
	WQ25	hypo		9/12/2012	< 0.00005	1.50	0.0660	-	< 0.00005	< 0.0001	< 0.0002	0.000130	< 0.00005	0.00570
	WQ25	epi		3/13/2013	< 0.00005	1.80	0.0737	-	< 0.00005	< 0.0001	< 0.0002	0.000120	< 0.00005	0.00250
	WQ25	hypo		3/13/2013	< 0.00005	1.90	0.0791	-	< 0.00005	< 0.0001	< 0.0002	0.000110	< 0.00005	0.000500
	WQ25	epi		4/15/2014	<0.00005	1.70	0.0741	-	<0.00005	<0.0001	0.000200	0.000140	<0.00005	0.00280
	WQ25	hypo		4/15/2014	<0.00005	1.80	0.114	-	<0.00005	<0.0001	0.000400	0.000180	<0.00005	0.00720
	WQ25	meta		7/1/2014	<0.00005	1.50	0.0627	-	<0.00005	<0.0001	0.000400	0.000140	<0.00005	0.00140
	WQ25	meta		9/23/2014	<0.00005	1.70	0.0738	-	<0.00005	<0.0001	<0.0002	0.000140	<0.00005	0.00350
	WQ25	meta		12/8/2014	<0.00005	1.70	0.0758	-	<0.00005	<0.0001	<0.0002	0.000100	<0.00005	0.00120

Notes:
 "-" indicates parameter was not analyzed.
 "<" value is below the detection limit

**APPENDIX D-2 LAKE FIELD DATA, BLACKWATER GOLD PROJECT,
2018 TO 2020**

Appendix D-2: Lake Field Data, Blackwater Gold Project, 2018 to 2020

Site	Date	Depth (m)	Temperature (°C)	pH (pH Unit)	Conductivity (µS/cm)	Specific Conductivity (µS/cm)	Dissolved Oxygen Saturation (%)	Dissolved Oxygen (mg/L)
WQ23	22/2/2018	0	0.6	6.76	28.8	53.9	75.3	10.87
		1	1.7	6.81	30	54.1	74.5	10.39
		2	2.6	6.81	30.9	54	65.7	8.92
		3	2.9	6.74	31.3	54.2	60	8.04
		4	3	6.74	31.6	54.6	53.5	7.22
		5	3	6.67	32.1	55.3	46.8	6.31
		6	3.1	6.65	32.2	55.3	43.1	5.8
		7	3.1	6.6	32.6	53	34.5	3.62
		8	3.2	6.51	32.5	55.7	28.2	3.71
	28/5/2018	1	9.9	6.74	27.6	38.7	87.1	9.84
		2	9.9	6.86	27.5	38.7	85.9	9.71
		3	6.9	6.85	30.8	47.1	88.7	10.81
		4	5.6	6.76	31.4	50.2	80	10.11
		5	4.8	6.79	32.3	52.4	64.2	8.26
		6	4.2	6.68	32.9	54.8	38.3	5.02
		7	3.9	6.66	33	55.2	36	4.67
		8	3.8	6.58	33.7	56.8	15.3	2.11
		9	3.8	6.44	34.3	57.5	16.6	2.14
		10	3.8	6.42	40.1	67.4	1.2	0.15
	8/8/2018	0	17.8	7.33	38.3	44.1	84.3	8.09
		1	17.1	7.33	37.7	44.6	88.1	8.39
		2	17	7.31	37.6	44.4	86.1	8.29
		3	14.8	7.31	38.2	47.6	95.1	9.57
		4	10.9	7.21	38.9	53.3	95.4	10.44
		5	12.6	7.32	41.2	54.2	93.1	9.77
		6	8.1	6.86	58.9	90.9	35.9	4.87
		7	5.3	6.75	36.9	59.1	16.3	2.07
		8	5.1	5.56	44.1	70.8	2.8	0.36
		9	4.6	6.52	38.4	62.8	1.8	0.16
		10	5.7	6.56	51.1	80.8	-	-

Appendix D-2: Lake Field Data, Blackwater Gold Project, 2018 to 2020

Site	Date	Depth (m)	Temperature (°C)	pH (pH Unit)	Conductivity (µS/cm)	Specific Conductivity (µS/cm)	Dissolved Oxygen Saturation (%)	Dissolved Oxygen (mg/L)
WQ23 (cont'd)	28/11/2018	1	2.8	7.79	31.3	54.2	83.3	11.23
		2	2.9	7.7	31.3	54.2	76.8	10.37
		3	2.9	7.65	31.5	54.5	76.8	10.38
		4	2.9	7.6	31.6	54.6	76.5	10.3
		5	3	7.55	31.6	54.6	74.7	10.07
		6	3	7.55	31.7	54.7	74.1	9.98
		7	3	7.51	31.7	54.8	73.1	9.84
	13/2/2019	0	0.5	7.39	52.8	97.7	94	13.37
		1	3	7.29	54.8	94.7	71.1	9.56
		2	3.1	7.28	55.4	95.1	65.4	8.77
		3	3.2	7.28	55.7	95.5	60.8	8.11
		4	3.2	7.26	56	95.9	56.4	7.54
		5	3.2	7.23	56.1	96.2	54.9	7.34
		6	3.2	7.22	56.4	96.6	52	6.96
		6.5	3.2	7.16	-	-	-	-
	28/5/2019	0	14.4	7.29	36.6	45.9	96.5	9.65
		1	12.4	7.26	-	-	93.7	10.03
		2	9.1	7.21	34	48.9	94.8	10.93
		3	9.1	7.1	34	48.9	83.9	10.77
		4	6.7	7.1	33.5	51.4	94.2	11.45
		5	6.4	7.07	33.7	52.4	91.3	11.23
		6	5.6	7.02	34	54	85.3	10.66
		7	5.2	6.94	34.7	56.1	78.8	9.95
		8	4.8	6.89	35.4	57.8	55.3	7.07
		9	4.3	6.82	35.9	69.5	29.5	3.82
		10	4.2	6.76	36.4	60.4	17.7	2.3
	13/8/2019	0	16.3	7.64	37	44.3	81.5	7.94
		1	16.3	7.65	37	44.4	84.4	8.3
		2	16.1	7.65	36.9	44.3	84.5	8.34

Appendix D-2: Lake Field Data, Blackwater Gold Project, 2018 to 2020

Site	Date	Depth (m)	Temperature (°C)	pH (pH Unit)	Conductivity (µS/cm)	Specific Conductivity (µS/cm)	Dissolved Oxygen Saturation (%)	Dissolved Oxygen (mg/L)
WQ23 (cont'd)	13/8/2019	3	15	7.54	37.6	46.5	84.9	8.56
		4	13	7.46	38.4	49.9	90.4	9.53
		5	9.6	7.27	41	58.1	87.7	10
		6	7.1	6.89	40	60.7	48.8	5.87
		7	5.9	6.67	40.3	63.4	14.8	1.8
		8	5.6	-	-	-	-	-
	4/11/2019	0	3.6	6.8	29.8	50.2	85	11.24
		1	3.6	7.05	30	50.8	79	10.46
		2	3.7	7.14	30	50.9	78.8	10.42
		3	3.6	7.14	30.1	50.9	78.4	10.38
		4	3.6	7.15	30.2	51.1	78.6	10.38
		5	3.6	7.14	30.5	51.3	78.3	10.38
		6	3.6	7.13	30	49.5	78.2	10.35
		7	3.7	7.13	29.9	51.4	78	10.31
		8	3.7	7.13	30	50.9	78.1	10.31
		8.75	3.7	7.08	29.7	52	77.3	10.23
	20/2/2020	0	0.2	8.25	24.5	46.6	67.7	9.8
		1	1.8	7.83	28.7	51.6	65.4	9.08
		2	2.7	7.74	29.9	52.1	58.4	7.92
		3	2.9	7.7	30.4	52.6	51.9	6.98
		4	3	7.63	30.6	52.7	48	6.46
		5	3	7.54	30.7	53	44.1	5.93
		6	3	7.47	31.1	53.7	42	5.64
		7	3	7.38	31.3	54.1	40.7	5.47
		8	3.1	7.36	39.6	68.1	37.5	5.02
		9	3.1	7.37	40.4	69.6	35	4.69
		10	3.1	7.33	40.9	70.4	33.4	4.46
11		3.1	7.3	40.8	70.2	25	3.35	
12	3.1	7.25	40.8	70.2	5.8	0.79		

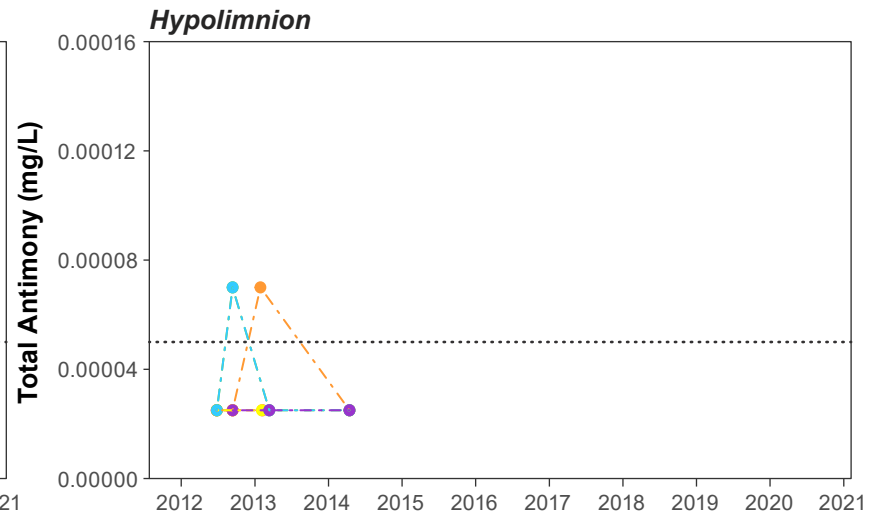
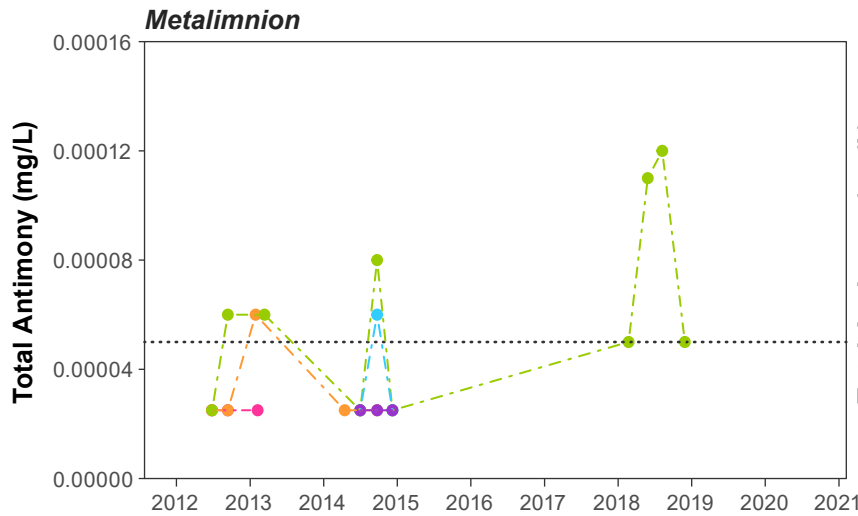
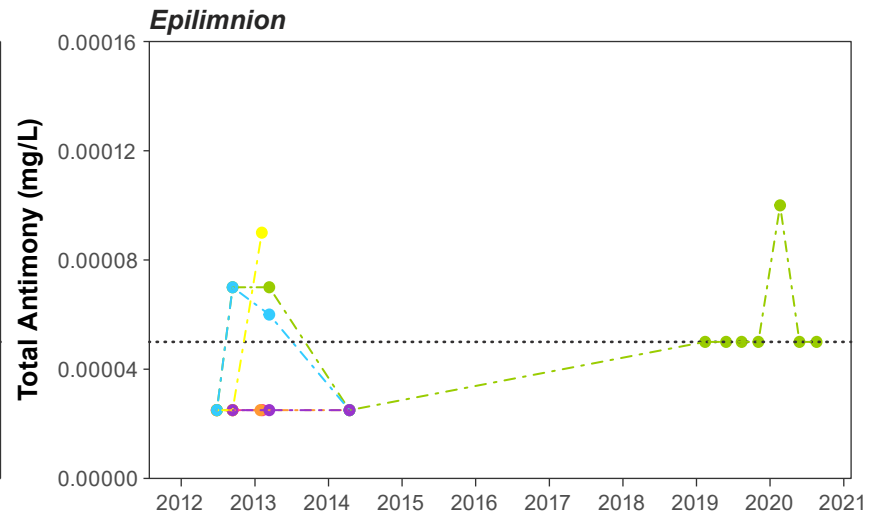
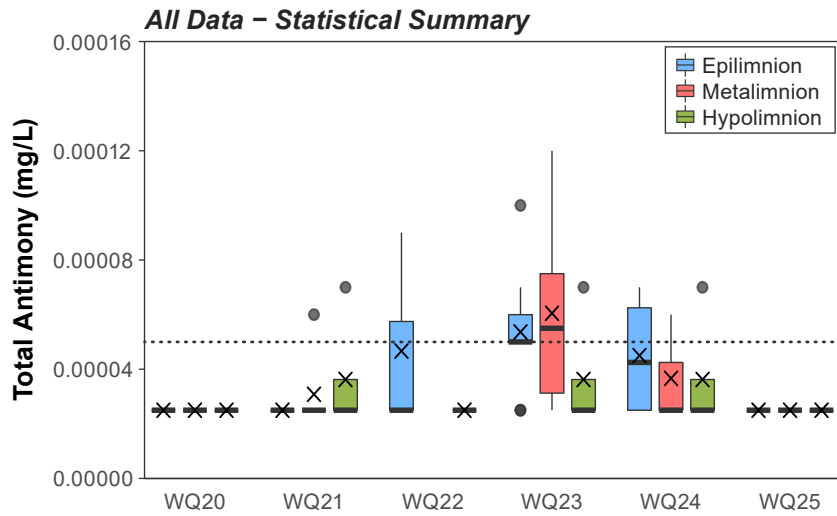
Appendix D-2: Lake Field Data, Blackwater Gold Project, 2018 to 2020

Site	Date	Depth (m)	Temperature (°C)	pH (pH Unit)	Conductivity (µS/cm)	Specific Conductivity (µS/cm)	Dissolved Oxygen Saturation (%)	Dissolved Oxygen (mg/L)
WQ23 (cont'd)	26/5/2020	0	9.5	7	29.5	42	78.9	9
		1	9.4	6.97	29.6	42	79.1	9.06
		2	9.1	6.96	28.9	41.6	79.5	9.16
		3	8	6.91	29.6	43.8	76.5	9.01
		4	6.5	6.88	32.4	50.1	76.4	9.36
		5	5.5	6.86	33.4	53.3	70.2	8.85
		6	4.9	6.79	33.7	54.7	59.4	7.6
	19/8/2020	0	14.7	7.87	36.4	45.5	100.1	10.19
		1	14.4	7.51	36.2	45.4	99.6	10.24
		2	14.4	7.49	35.9	45.1	101.5	10.38
		3	13.6	7.45	35.3	45.4	102	10.65
		4	12.7	7.47	36	45.7	99.9	10.6
		5	12.2	7.38	34.9	46.4	97.4	10.42
		6	8.5	7.37	40.2	58.6	81.6	9.52
		7	8.4	6.92	39.8	58.8	79.8	8.98
		8	10.6	7.04	38.6	53.6	65.6	7.5
		9	9.5	6.93	37.1	-	61	6.59
		10	6.4	6.8	37.3	61.7	12	1.12
		11	6.1	6.91	55.4	84.6	8.7	0.09

Note:

"-" indicates parameter was not analyzed.

APPENDIX E LAKE WATER QUALITY SUMMARY GRAPHS, BLACKWATER GOLD PROJECT, 2012 TO 2020



Notes: Concentrations below the detection limit were plotted as half the detection limit.
BC FAL working guideline for total antimony is 0.009 mg/L.

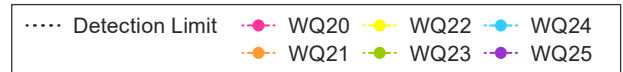


Figure E-1: Total Antimony Concentrations, Blackwater Gold Project Lakes, 2012 to 2020

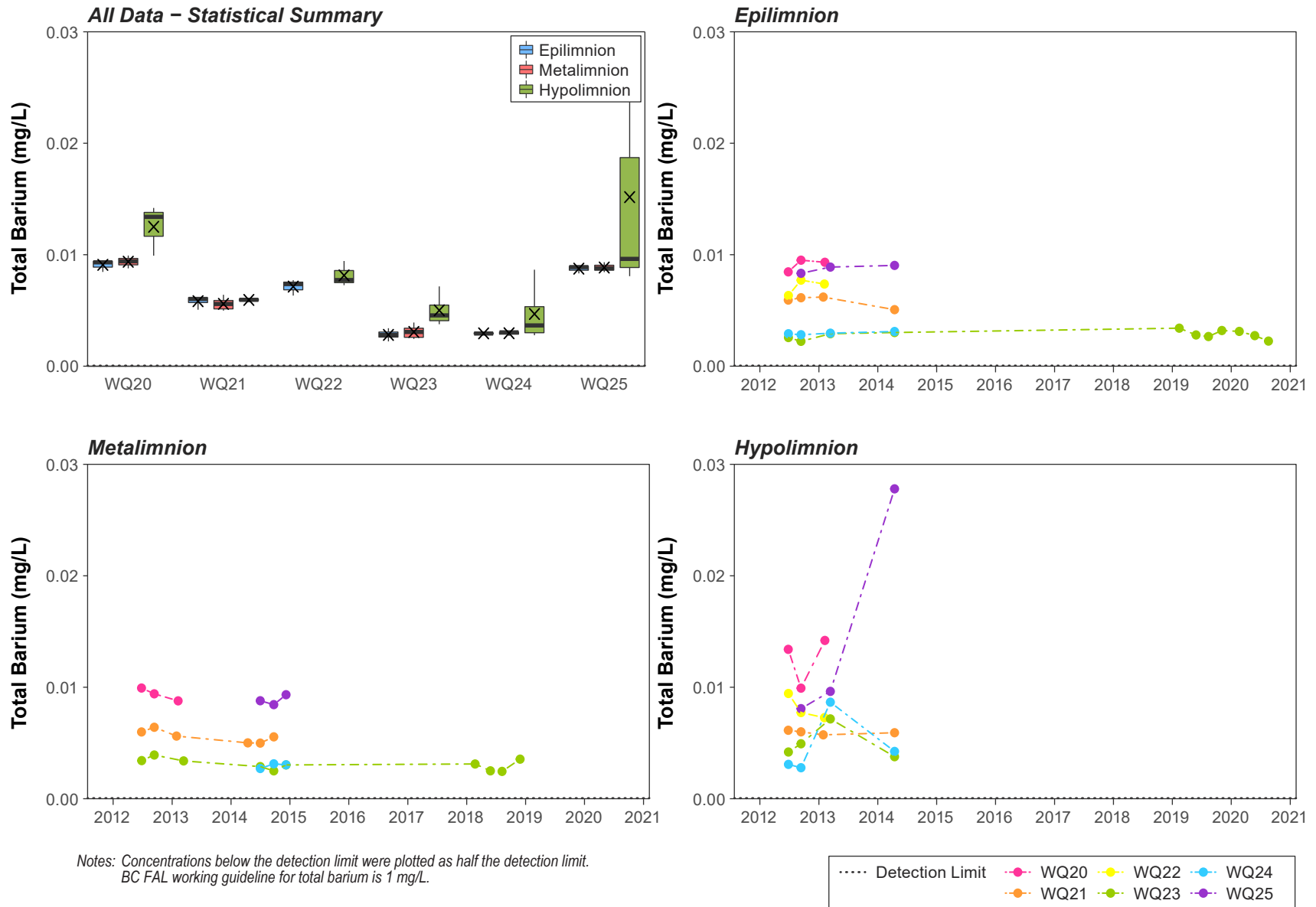


Figure E-2: Total Barium Concentrations, Blackwater Gold Project Lakes, 2012 to 2020

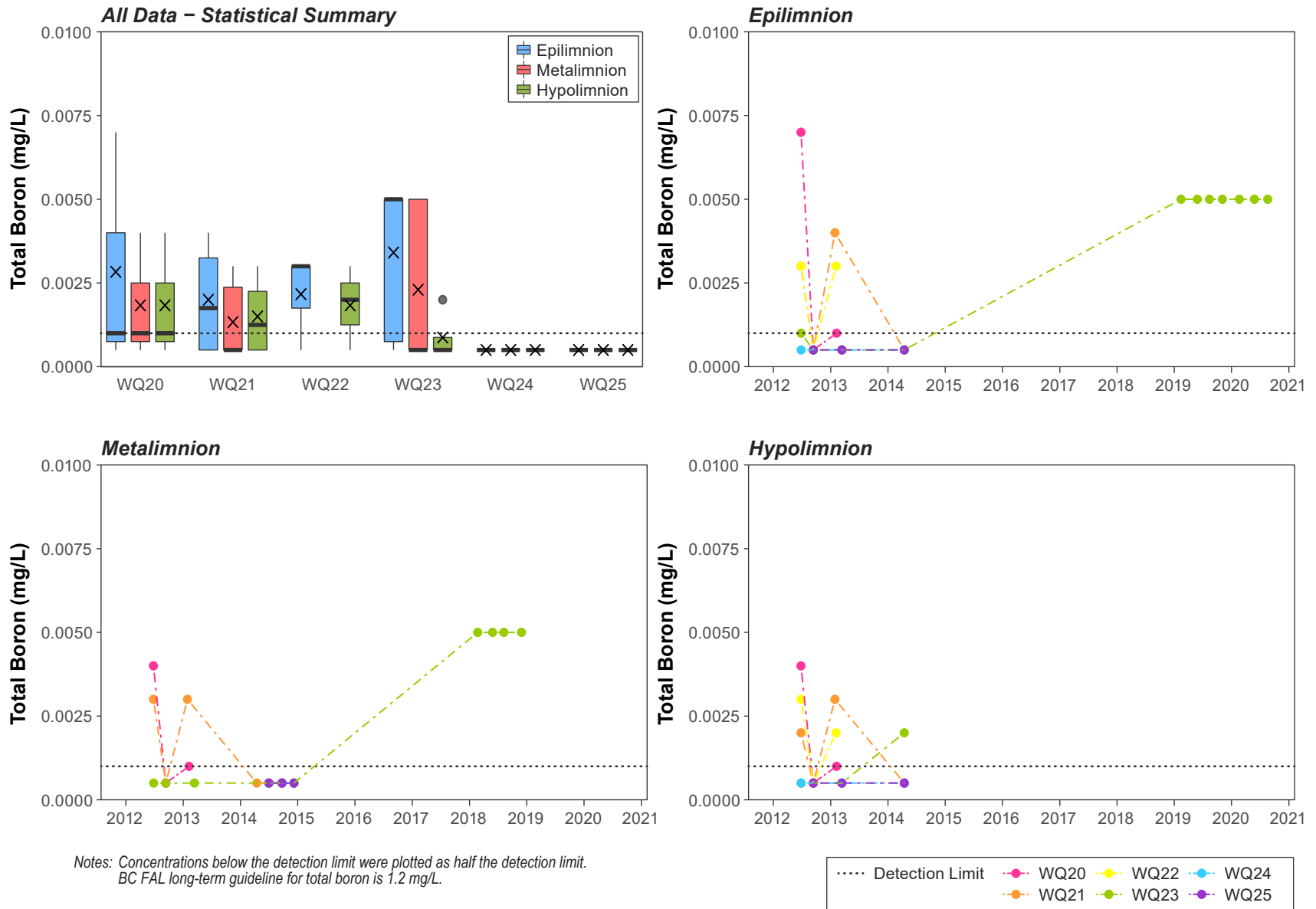


Figure E-3: Total Boron Concentrations, Blackwater Gold Project Lakes, 2012 to 2020

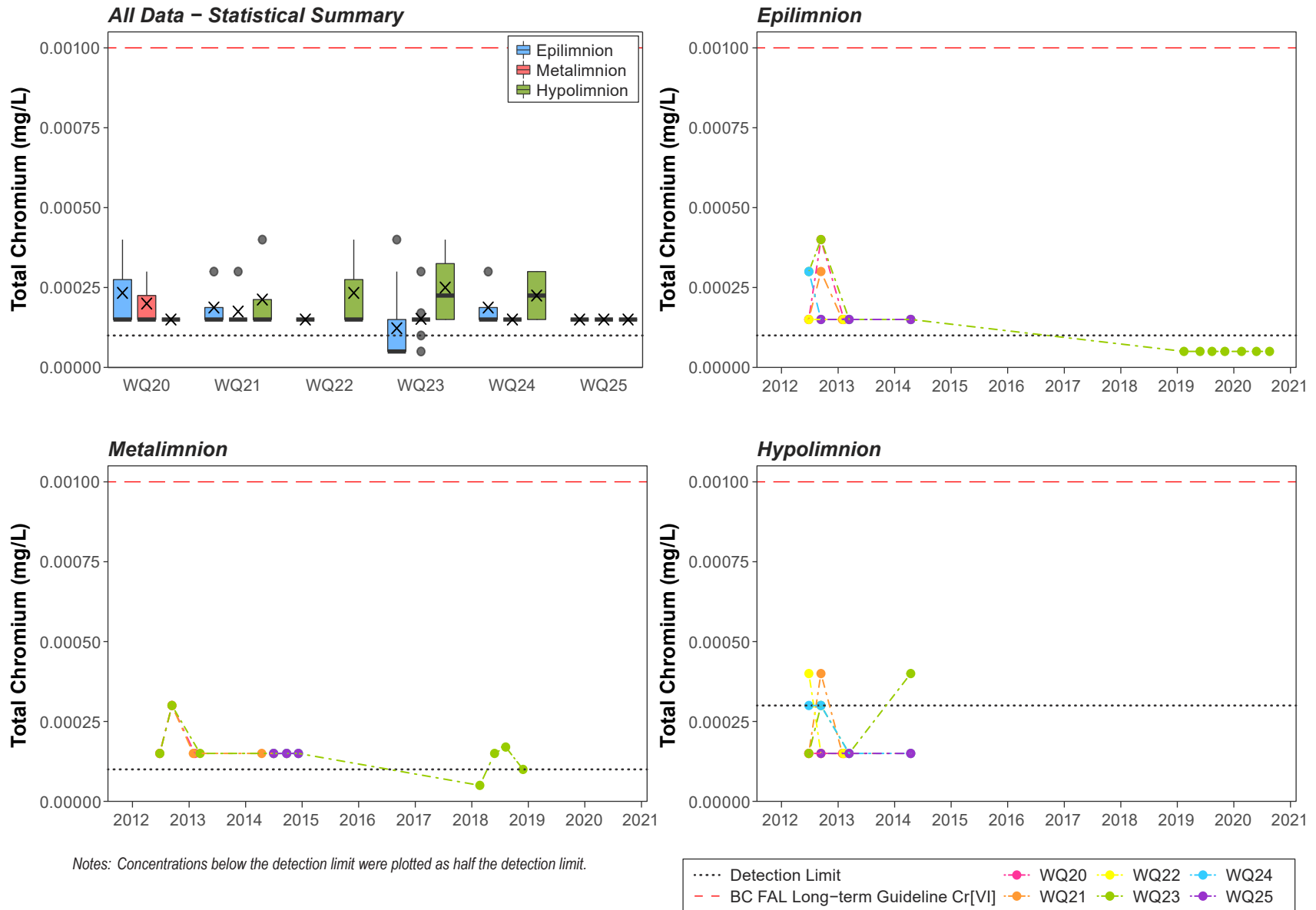


Figure E-4: Total Chromium Concentrations, Blackwater Gold Project Lakes, 2012 to 2020

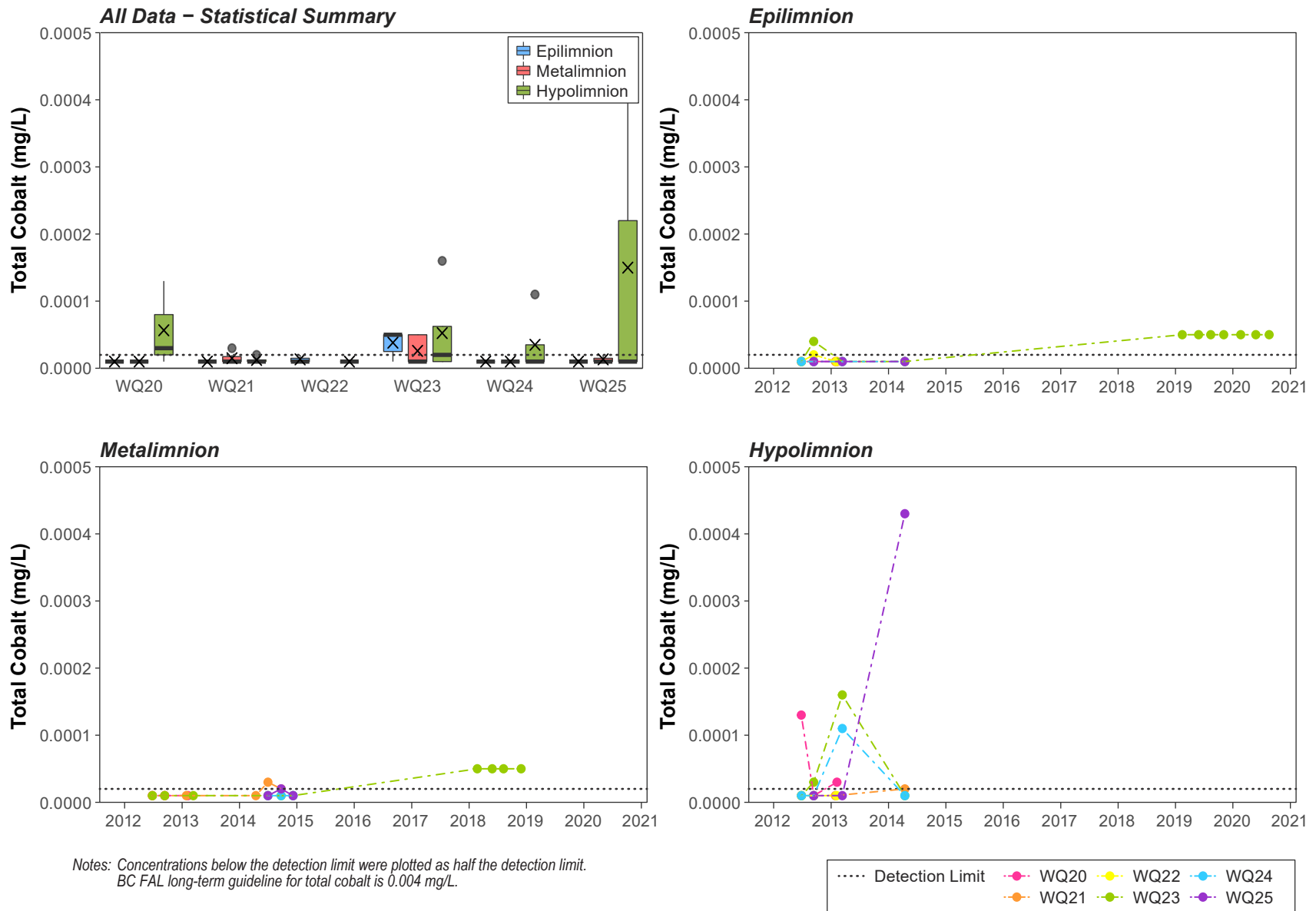


Figure E-5: Total Cobalt Concentrations, Blackwater Gold Project Lakes, 2012 to 2020

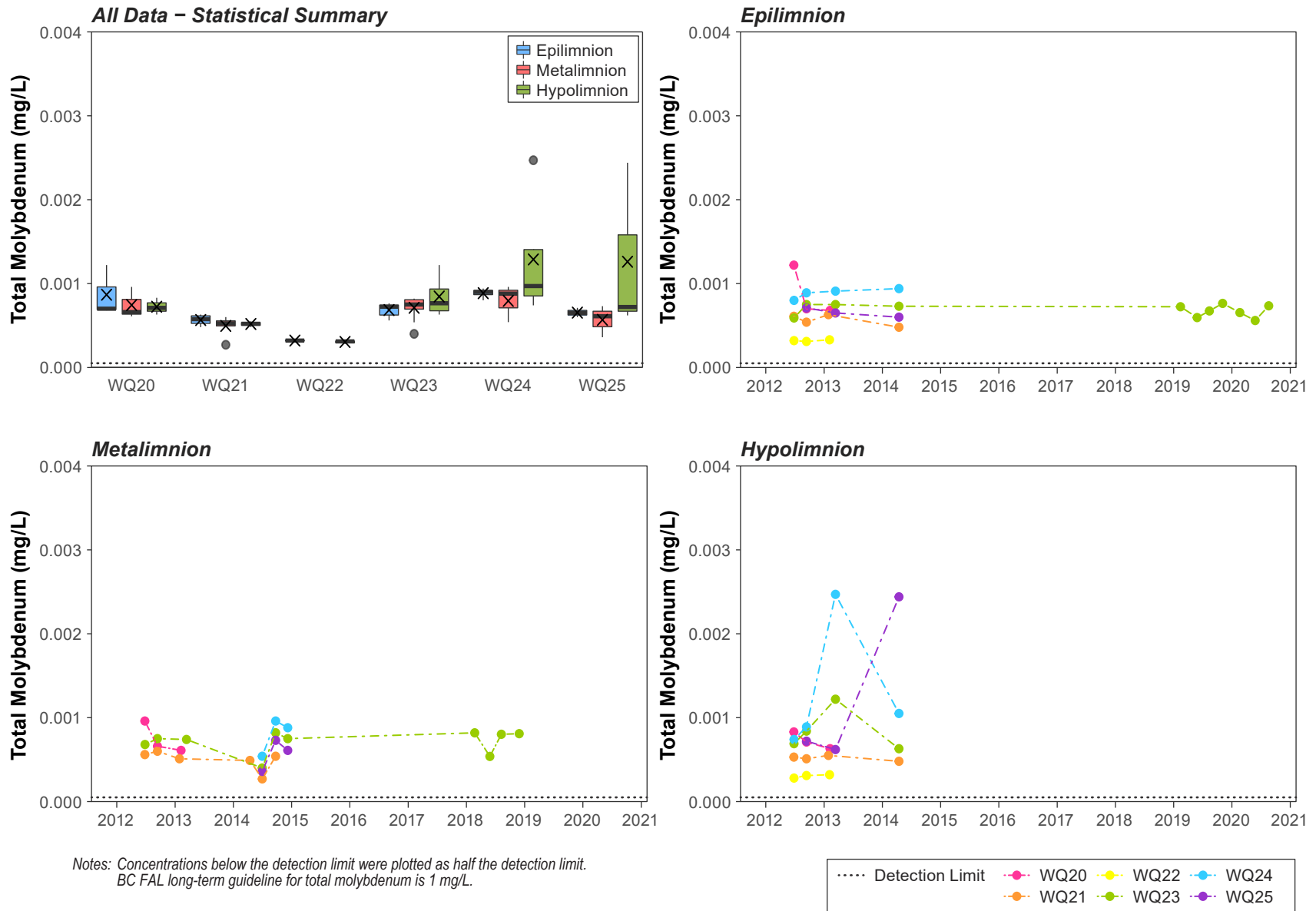


Figure E-6: Total Molybdenum Concentrations, Blackwater Gold Project Lakes, 2012 to 2020

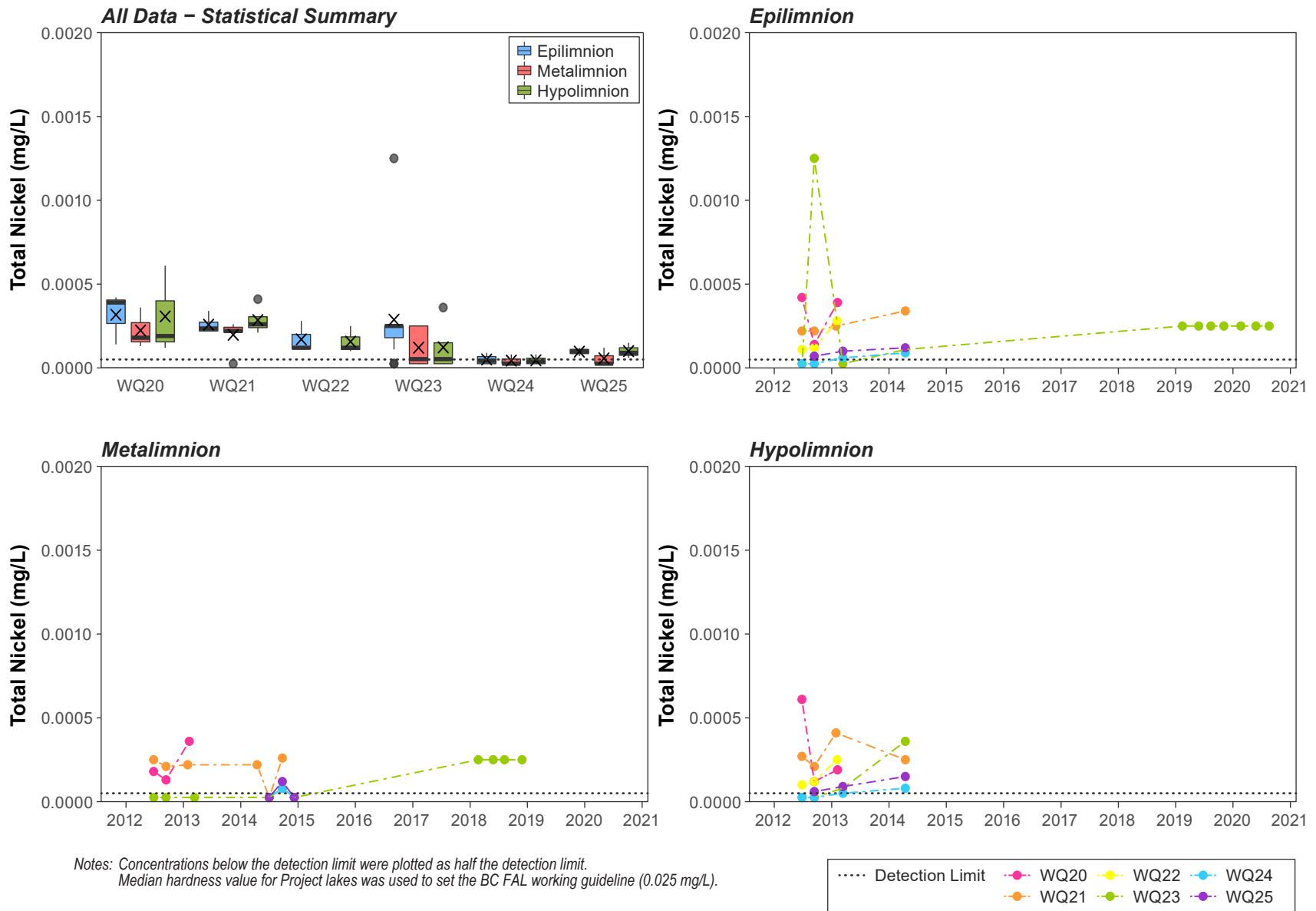


Figure E-7: Total Nickel Concentrations, Blackwater Gold Project Lakes, 2012 to 2020

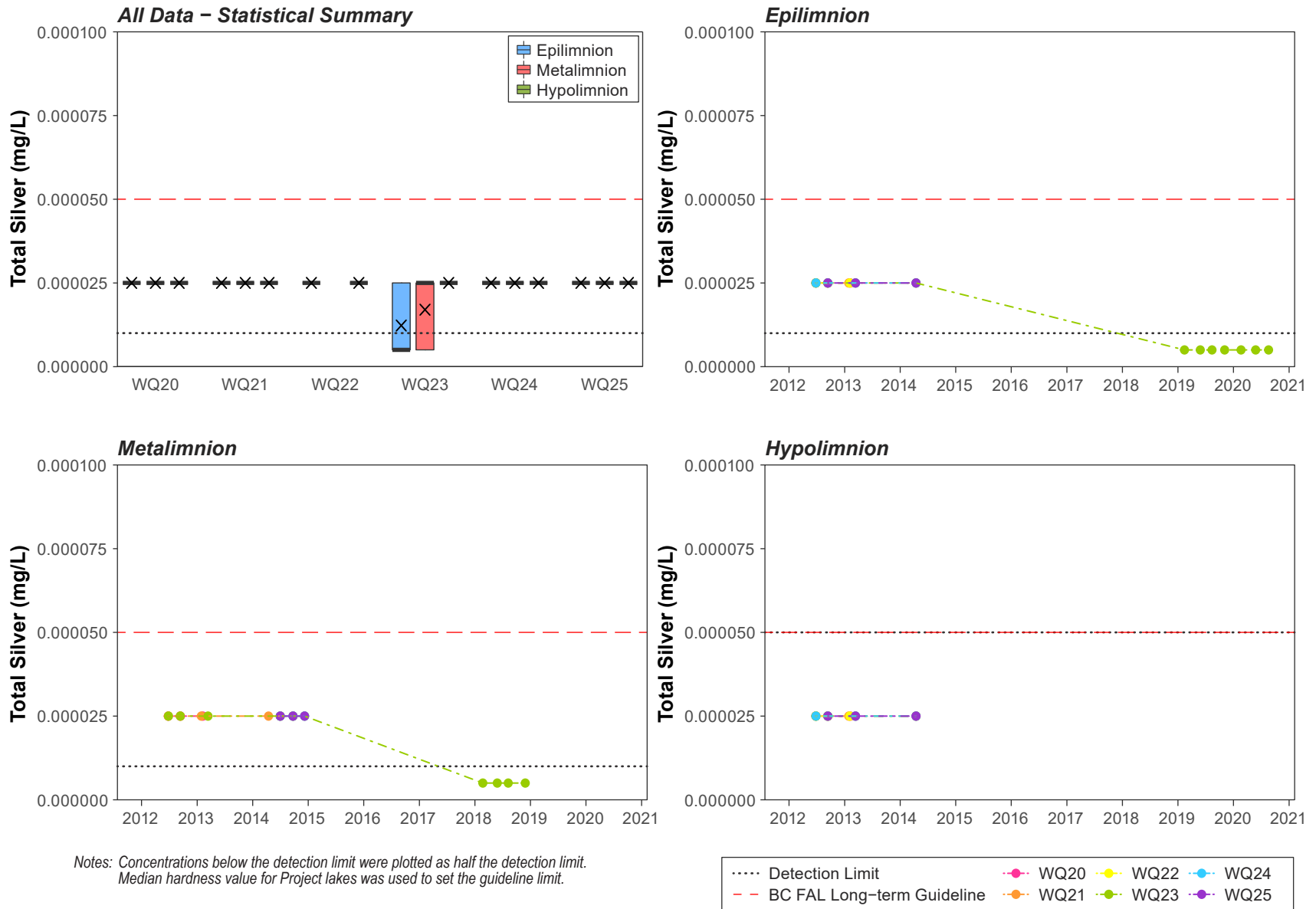


Figure E-8: Total Silver Concentrations, Blackwater Gold Project Lakes, 2012 to 2020

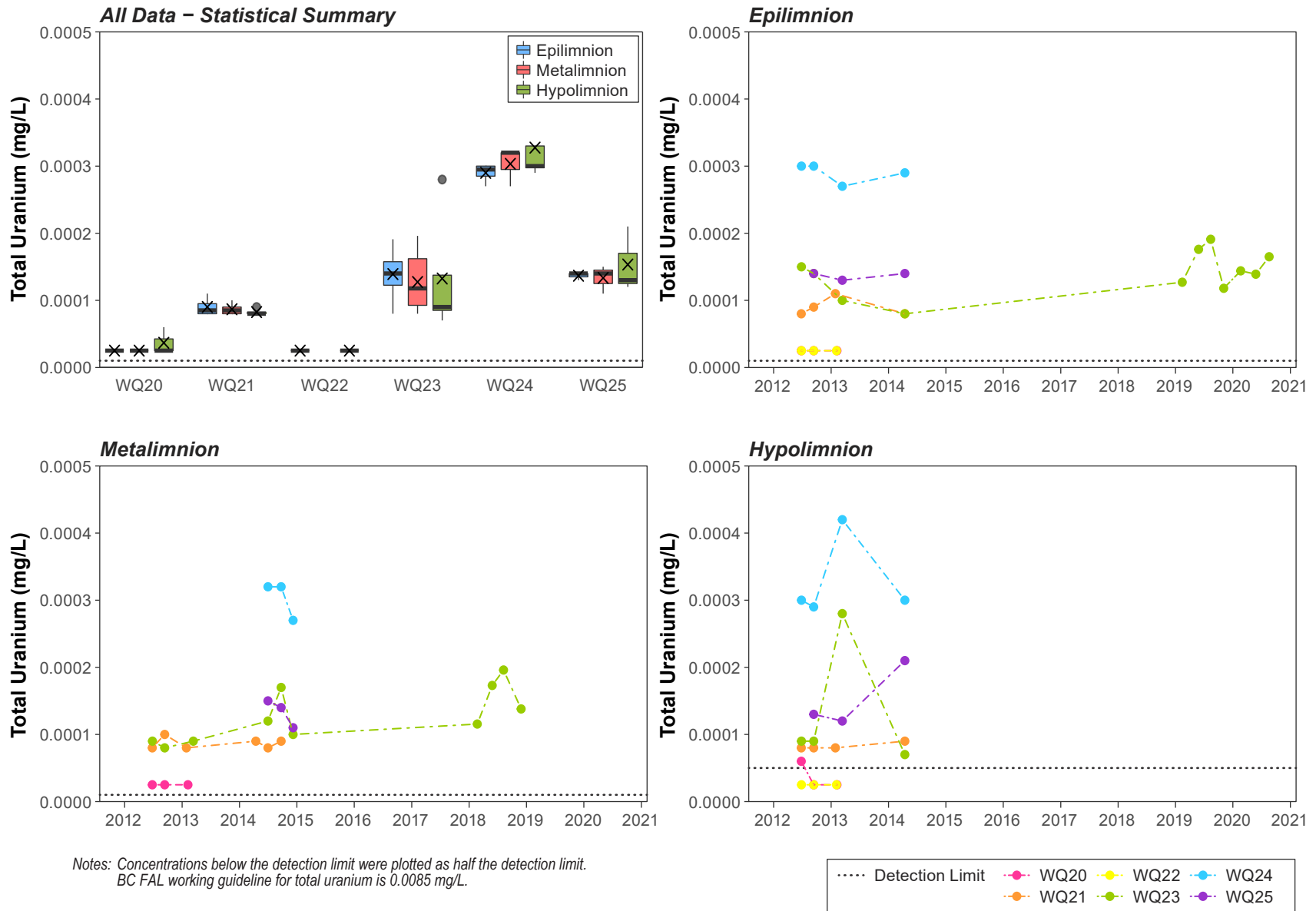


Figure E-9: Total Uranium Concentrations, Blackwater Gold Project Lakes, 2012 to 2020

APPENDIX F WATER QUALITY FIELD AND TRAVEL BLANKS, BLACKWATER GOLD PROJECT

Appendix F: Water Quality Field and Travel Blanks, Blackwater Gold Project

Lab ID	Client Sample ID	Date	Physical Tests											
			pH	Conductivity	Hardness (as CaCO ₃)	Hardness, Total (as CaCO ₃)	Total Dissolved Solids	Total Suspended Solids	Turbidity	Acidity (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)	Alkalinity, Hydroxide (as CaCO ₃)	Alkalinity, Carbonate (as CaCO ₃)	Alkalinity, Bicarbonate (as CaCO ₃)
			pH units	µS/cm	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	mg/L
X11.3640.	FieldBlank	3/30/2011	6.34	3,000	<6.0	<6.0	<4	<2	<0.1	-	2.00	-	-	-
L997464-9	FieldBlank	4/19/2011	-	-	-	-	-	-	-	-	-	-	-	-
X11.4271.	FieldBlank	4/19/2011	6.24	2,000	<6.0	<6.0	<4	<2	<0.1	-	2.00	-	-	-
L1007174-14	FieldBlank	5/17/2011	-	-	-	-	-	-	-	-	-	-	-	-
X11.5511.	FieldBlank	5/17/2011	5.98	6.00	<6.0	<6.0	<4	<2	<0.1	-	4.00	-	-	-
L1009554-14	FieldBlank	5/25/2011	-	-	-	-	-	-	-	-	-	-	-	-
X11.5871.	FieldBlank	5/25/2011	6.06	5.00	<6.0	<6.0	<4	<2	<0.1	-	<1	-	-	-
X11.6101.	FieldBlank	5/30/2011	5.92	6.00	<6.0	<6.0	<4	<2	<0.1	-	<1	-	-	-
L1014653-14	FieldBlank	6/6/2011	-	-	-	-	-	-	-	-	-	-	-	-
X11.6393.	FieldBlank	6/6/2011	5.86	5.00	<6.0	<6.0	<4	<2	0.100	-	<1	-	-	-
L1018027-14	FieldBlank	6/13/2011	-	-	-	-	-	-	-	-	-	-	-	-
L1018027-15	FieldBlank	6/13/2011	-	-	-	-	-	-	-	-	-	-	-	-
X11.6765.	FieldBlank	6/13/2011	5.90	3,000	<6.0	<6.0	<4	<2	<0.1	-	<1	-	-	-
L1033697-13	FieldBlank	7/18/2011	-	-	-	-	-	-	-	-	-	-	-	-
L1033953-15	FieldBlank	7/18/2011	-	-	-	-	-	-	-	-	-	-	-	-
X11.9202.	FieldBlank	7/18/2011	5.91	2.00	<6.0	<6.0	<4	<2	<0.1	-	<1	-	-	-
L1046189-15	FieldBlank	8/15/2011	-	-	-	-	-	-	-	-	-	-	-	-
X11.10880.	FieldBlank	8/15/2011	-	-	<6.0	<6.0	-	-	-	-	-	-	-	-
L1061327-15	FieldBlank	9/19/2011	-	-	-	-	-	-	-	-	-	-	-	-
X11.13830.	FieldBlank	9/19/2011	5.65	1.00	<6.0	<6.0	<4	<2	0.400	-	<1	-	-	-
L1073886-15	FieldBlank	10/17/2011	-	-	-	-	-	-	-	-	-	-	-	-
X11.16743.	FieldBlank	10/17/2011	5.59	1.00	<6.0	<6.0	<4	<2	0.200	-	<1	-	-	-
L1085601-15	FieldBlank	11/14/2011	-	-	-	-	-	-	-	-	-	-	-	-
X11.19510.	FieldBlank	11/14/2011	5.49	-	<6.0	<6.0	<4	<2	0.300	-	<1	-	-	-
L1096214-5	FieldBlank	12/13/2011	-	-	-	-	-	-	-	-	-	-	-	-
X11.21064.	FieldBlank	12/13/2011	5.50	1.00	<6.0	<6.0	4.00	<2	0.800	-	<1	-	-	-
X12.1359.	FieldBlank	1/12/2012	5.60	-	<6.0	<6.0	<4	<2	0.300	-	<1	-	-	-
L1105609-9	FieldBlank	1/19/2012	-	-	-	-	-	-	-	-	-	-	-	-
L1114156-9	FieldBlank	2/13/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.1775.	FieldBlank	2/13/2012	5.51	-	<6.0	<6.0	<4	<2	0.500	-	<1	-	-	-
L1124156-15	FieldBlank	3/3/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.2570.	FieldBlank	3/12/2012	5.42	-	<6.0	<6.0	<4	<2	0.200	-	<1	-	-	-
L1136250-11	FieldBlank	4/17/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.3456.	FieldBlank	4/17/2012	-	-	<6.0	<6.0	-	-	-	-	-	-	-	-
L1136681-1	FieldBlank	4/20/2012	-	-	-	-	-	-	-	-	-	-	-	-
L1136681-1	FieldBlank	4/25/2012	-	-	-	-	-	-	-	-	-	-	-	-
L1149027-7	FieldBlank	5/15/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.4684.	FieldBlank	5/15/2012	5.53	-	<6.0	<6.0	8.00	<2	0.700	-	2.00	-	-	-
L1150853-10	FieldBlank	5/22/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.4925.	FieldBlank	5/22/2012	6.73	7.00	<6.0	<6.0	<4	<2	0.200	-	3.00	-	-	-
X12.5342.	FieldBlank	5/28/2012	5.91	3.00	<6.0	<6.0	8.00	<2	<0.1	-	2.00	-	-	-
L1154508-15	FieldBlank	5/30/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.5798.	FieldBlank	6/4/2012	5.48	-	<6.0	<6.0	<4	<2	0.100	-	<1	-	-	-
L1158839-15	FieldBlank	6/7/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.6092.	FieldBlank	6/11/2012	5.83	-	<6.0	54.4	4.00	<2	0.100	-	3.00	-	-	-

Appendix F: Water Quality Field and Travel Blanks, Blackwater Gold Project

Lab ID	Client Sample ID	Date	Physical Tests											
			pH	Conductivity	Hardness (as CaCO ₃)	Hardness, Total (as CaCO ₃)	Total Dissolved Solids	Total Suspended Solids	Turbidity	Acidity (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)	Alkalinity, Hydroxide (as CaCO ₃)	Alkalinity, Carbonate (as CaCO ₃)	Alkalinity, Bicarbonate (as CaCO ₃)
			pH units	µS/cm	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	mg/L
L1161703-15	FieldBlank	6/12/2012	-	-	-	-	-	-	-	-	-	-	-	-
L1165411-14	FieldBlank	6/16/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.6475.	FieldBlank	6/18/2012	5.53	-	<6.0	<6.0	<4	<2	0.200	-	3.00	-	-	-
L1169894-14	FieldBlank	6/25/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.6898.	FieldBlank	6/25/2012	6.29	3.00	<6.0	<6.0	4.00	<2	<0.1	-	2.00	-	-	-
L1180296-14	FieldBlank	7/16/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.8105.	FieldBlank	7/16/2012	5.91	1.00	<6.0	<6.0	36.0	<2	0.200	-	2.00	-	-	-
L1180440-15	FieldBlank	7/18/2012	-	-	-	-	-	-	-	-	-	-	-	-
L1194631-15	FieldBlank	8/13/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.9628.	FieldBlank	8/13/2012	5.83	1.00	<6.0	<6.0	4.00	<2	0.200	-	<1	-	-	-
X12.11284.	FieldBlank	9/12/2012	6.00	-	<6.0	<6.0	<4	<2	0.700	-	10.0	-	-	-
L1211510-15	FieldBlank	9/17/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.11625.	FieldBlank	9/17/2012	5.94	-	<6.0	<6.0	<4	<2	0.400	-	10.0	-	-	-
L1224463-18	FieldBlank	10/16/2012	-	-	-	-	-	-	-	-	-	-	-	-
L1224796-8	FieldBlank	10/16/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.14768.	FieldBlank	10/16/2012	5.75	<1	<6.0	<6.0	<4	<2	0.200	-	<1	-	-	-
L1238081-8	FieldBlank	11/12/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.16749.	FieldBlank	11/12/2012	5.67	1.00	<6.0	<6.0	<4	<2	0.500	-	<1	-	-	-
L1249297-10	FieldBlank	12/10/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.18158.	FieldBlank	12/10/2012	5.73	1.00	<6.0	<6.0	<4	<2	0.400	-	<1	-	-	-
L1259237-6	FieldBlank	1/15/2013	-	-	-	-	-	-	-	-	-	-	-	-
X13.1312.	FieldBlank	1/15/2013	5.67	<1	<6.0	<6.0	4.00	<2	0.300	-	<1	-	-	-
L1265945-3	FieldBlank	2/4/2013	-	-	-	-	-	-	-	-	-	-	-	-
X13.1614.	FieldBlank	2/4/2013	5.75	1.00	<6.0	<6.0	<4	<2	1.20	-	<1	-	-	-
L1268429-13	FieldBlank	2/13/2013	-	-	-	-	-	-	-	-	-	-	-	-
X13.1783.	FieldBlank	2/13/2013	5.75	<1	<6.0	<6.0	4.00	<2	0.400	-	<1	-	-	-
L1279413-16	FieldBlank	3/12/2013	-	-	-	-	-	-	-	-	-	-	-	-
X13.2415.	FieldBlank	3/12/2013	5.78	<1	<6.0	<6.0	<4	<2	0.500	-	<1	-	-	-
L1291117-5	FieldBlank	4/16/2013	-	-	-	-	-	-	-	-	-	-	-	-
L1291332-15	FieldBlank	4/16/2013	-	-	-	-	-	-	-	-	-	-	-	-
X13.3031.	FieldBlank	4/16/2013	5.64	1.00	<6.0	<6.0	<4	<2	0.200	-	<1	-	-	-
L1302195-18	FieldBlank	5/14/2013	-	-	-	-	-	-	-	-	-	-	-	-
X13.4100.	FieldBlank	5/14/2013	7.62	16.0	<6.0	<6.0	<4	<2	0.500	-	5.00	-	-	-
L1306457-8	FieldBlank	5/21/2013	-	-	-	-	-	-	-	-	-	-	-	-
X13.4448.	FieldBlank	5/21/2013	5.59	<1	<6.0	<6.0	<4	<2	0.400	-	1.00	-	-	-
L1308302-18	FieldBlank	5/28/2013	-	-	-	-	-	-	-	-	-	-	-	-
X13.4667.	FieldBlank	5/28/2013	5.71	<1	<6.0	<6.0	4.00	<2	0.500	-	<1	-	-	-
L1312787-19	FieldBlank	6/4/2013	-	-	-	-	-	-	-	-	-	-	-	-
X13.5073.	FieldBlank	6/4/2013	5.68	1.00	<6.0	<6.0	<4	<2	0.700	-	<1	-	-	-
X13.5371.	FieldBlank	6/11/2013	5.78	1.00	<6.0	<6.0	4.00	<2	0.700	-	<1	-	-	-
L1315720-19	FieldBlank	6/12/2013	-	-	-	-	-	-	-	-	-	-	-	-
L1319271-10	FieldBlank	6/17/2013	-	-	-	-	-	-	-	-	-	-	-	-
X13.5931.	FieldBlank	6/17/2013	5.74	<1	<6.0	<6.0	<4	<2	1.10	-	<1	-	-	-
L1443919.7	FieldBlank	4/15/2014	-	-	-	-	-	-	-	-	-	-	-	-
X14.3974.	FieldBlank	4/15/2014	5.65	1.00	<6.0	-	4.00	<2	0.300	1.00	-	-	-	-

Appendix F: Water Quality Field and Travel Blanks, Blackwater Gold Project

Lab ID	Client Sample ID	Date	Physical Tests											
			pH	Conductivity	Hardness (as CaCO ₃)	Hardness, Total (as CaCO ₃)	Total Dissolved Solids	Total Suspended Solids	Turbidity	Acidity (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)	Alkalinity, Hydroxide (as CaCO ₃)	Alkalinity, Carbonate (as CaCO ₃)	Alkalinity, Bicarbonate (as CaCO ₃)
			pH units	µS/cm	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	mg/L
L1450068.2	FieldBlank	5/1/2014	5.73	<2.0	-	<0.50	<10	<3.0	<0.10	-	<2	<2	<2	<2
L1480734.12	FieldBlank	7/2/2014	-	-	-	-	-	-	-	-	-	-	-	-
X14.8162.	FieldBlank	7/2/2014	5.76	1.00	<6.0	-	<4	<2	0.200	<1	-	-	-	-
L1524229.12	FieldBlank	9/24/2014	-	-	-	-	-	-	-	-	-	-	-	-
X14.13298.	FieldBlank	9/24/2014	5.51	1.00	<6.0	-	8.00	<2	<0.1	<1	-	-	-	-
L1529638.3	FieldBlank	10/7/2014	5.44	<2.0	-	<0.50	<10	<3.0	<0.10	-	<2	<2	<2	<2
L1558493.7	FieldBlank	12/9/2014	-	-	-	-	-	-	-	-	-	-	-	-
X14.17999.	FieldBlank	12/9/2014	5.23	9.00	<6.0	-	<4	<2	<0.1	<1	-	-	-	-
L1750309.1	FieldBlank	3/29/2016	5.46	<2.0	-	<0.50	<10	<3.0	<0.10	-	<1.0	<1.0	<1.0	<1.0
L1764648.5	FieldBlank	5/3/2016	6.36	<2.0	-	<0.50	<10	<3.0	<0.10	1.30	<1.0	-	-	-
L1767107.5	FieldBlank	5/9/2016	5.71	<2.0	-	<0.50	<10	<3.0	<0.10	1.40	<1.0	-	-	-
L1770672.6	FieldBlank	5/16/2016	5.44	<2.0	-	<0.50	<10	<3.0	<0.10	1.20	<1.0	-	-	-
L1774541.5	FieldBlank	5/25/2016	6.18	<2.0	-	<0.50	<10	<3.0	<0.10	1.10	<1.0	-	-	-
L1786031.5	FieldBlank	6/16/2016	5.42	<2.0	-	<0.50	<10	<3.0	<0.10	-	<1.0	<1.0	<1.0	<1.0
L1788643.5	FieldBlank	6/22/2016	5.86	<2.0	-	<0.50	<10	<3.0	<0.10	1.20	<1.0	-	-	-
L1808945.5	FieldBlank	8/3/2016	5.83	<2.0	-	<0.50	<10	<3.0	<0.10	1.90	<1.0	-	-	-
L1812856.5	FieldBlank	8/10/2016	7.50	59.2	-	<0.50	<10	<3.0	<0.10	1.90	<1.0	-	-	-
L1815654.5	FieldBlank	8/16/2016	5.60	<2.0	-	<0.50	<10	<3.0	<0.10	1.90	<1.0	-	-	-
L1819041.3	FieldBlank	8/23/2016	5.37	<2.0	-	<0.50	<10	<3.0	<0.10	2.80	<1.0	-	-	-
L1823224.9	FieldBlank	8/31/2016	5.42	<1.0	-	<0.50	<10	<3.0	<0.10	1.40	<1.0	-	-	-
L1826303.8	FieldBlank	9/7/2016	5.40	<2.0	-	<0.50	<10	<3.0	<0.10	2.00	<1.0	-	-	-
L1829784.6	FieldBlank	9/14/2016	5.36	<2.0	-	<0.50	<10	<3.0	<0.10	-	<1.0	<1.0	<1.0	<1.0
L1913531.1	FieldBlank	4/12/2017	5.36	<2.0	-	<0.50	<10	<3.0	<0.10	1.90	<1.0	-	-	-
L1926080.6	FieldBlank	5/11/2017	5.40	<2.0	-	<0.50	<10	<3.0	<0.10	1.70	<1.0	-	-	-
L1928943.4	FieldBlank	5/17/2017	5.32	<2.0	-	<0.50	<10	<3.0	<0.10	2.00	<1.0	-	-	-
L1932034.5	FieldBlank	5/24/2017	5.20	<2.0	-	<0.50	<10	<3.0	<0.10	2.00	<1.0	-	-	-
L1935151.4	FieldBlank	5/30/2017	5.75	<2.0	-	<0.50	<10	<3.0	<0.10	1.90	<1.0	-	-	-
L1939712.5	FieldBlank	6/7/2017	5.59	<2.0	-	<0.50	<10	<3.0	<0.10	2.10	<1.0	-	-	-
L1962414.6	FieldBlank	7/19/2017	5.73	<2.0	-	<0.50	<10	<3.0	<0.10	1.90	<1.0	-	-	-
L1984944.9	FieldBlank	8/30/2017	5.74	<2.0	-	<0.50	<10	<3.0	<0.10	2.30	<1.0	-	-	-
L1988190.4	FieldBlank	9/6/2017	5.74	<2.0	-	<0.50	<10	<3.0	<0.10	1.90	<1.0	-	-	-
L1991279.4	FieldBlank	9/13/2017	5.76	<2.0	-	<0.50	<10	<3.0	<0.10	2.00	<1.0	-	-	-
L1995655.4	FieldBlank	9/21/2017	6.18	<2.0	-	<0.50	<10	<3.0	<0.10	1.40	<1.0	-	-	-
L1999769.5	FieldBlank	9/28/2017	5.84	<2.0	-	<0.50	<10	<3.0	<0.10	2.00	<1.0	-	-	-
L2009845.7	FieldBlank	10/17/2017	5.75	<2.0	-	<0.50	<10	<3.0	<0.10	2.10	<1.0	-	-	-
L2020333.7	FieldBlank	11/7/2017	5.85	<2.0	-	<0.50	<10	<3.0	<0.10	1.60	<1.0	-	-	-
L2034610-5	FieldBlank	12/11/2017	5.65	<2.0	-	<0.50	<10	<3.0	<0.10	1.80	<1.0	-	-	-
L2049678-6	FieldBlank	1/24/2018	6.08	<2.0	<0.50	-	<10	<3.0	<0.10	1.20	<1.0	-	-	-
L2060101-4	FieldBlank	2/22/2018	6.04	<2.0	<0.50	-	<10	<3.0	<0.10	1.40	<1.0	-	-	-
L2073898-3	FieldBlank	3/27/2018	5.46	<2.0	<0.50	-	<10	<3.0	<0.10	1.50	<1.0	-	-	-
L2081505-3	FieldBlank	4/16/2018	5.81	<2.0	<0.50	-	<10	<3.0	<0.10	2.00	<1.0	-	-	-
L2093061-4	FieldBlank	5/9/2018	5.98	<2.0	<0.50	-	<10	<3.0	<0.10	2.30	<1.0	-	-	-
L2097084-9	FieldBlank	5/16/2018	6.02	<2.0	<0.50	-	<10	<3.0	<0.10	1.30	<1.0	-	-	-
L2100419-4	FieldBlank	5/23/2018	6.17	<2.0	<0.50	-	<10	<3.0	<0.10	1.40	<1.0	-	-	-
L2104479-6	FieldBlank	5/30/2018	5.95	<2.0	<0.50	-	<10	<3.0	<0.10	2.10	<1.0	-	-	-

Appendix F: Water Quality Field and Travel Blanks, Blackwater Gold Project

Lab ID	Client Sample ID	Date	Physical Tests											
			pH	Conductivity	Hardness (as CaCO ₃)	Hardness, Total (as CaCO ₃)	Total Dissolved Solids	Total Suspended Solids	Turbidity	Acidity (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)	Alkalinity, Hydroxide (as CaCO ₃)	Alkalinity, Carbonate (as CaCO ₃)	Alkalinity, Bicarbonate (as CaCO ₃)
			pH units	µS/cm	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	mg/L
L2106738-4	FieldBlank	6/4/2018	5.79	<2.0	<0.50	-	<10	<3.0	<0.10	1.60	<1.0	-	-	-
L2132128-5	FieldBlank	7/17/2018	5.62	<2.0	<0.50	-	<10	<3.0	<0.10	2.20	<1.0	-	-	-
L2144782-4	FieldBlank	8/9/2018	6.06	<2.0	<0.50	-	<10	<3.0	<0.10	1.20	<1.0	-	-	-
L2156026-6	FieldBlank	8/28/2018	5.59	<2.0	<0.50	-	<10	<3.0	<0.10	1.50	<1.0	-	-	-
L2159605-6	FieldBlank	8/28/2018	5.62	<2.0	<0.50	-	<10	<3.0	<0.10	1.90	<1.0	-	-	-
L2160840-6	FieldBlank	9/7/2018	5.58	<2.0	<0.50	-	<10	<3.0	<0.10	1.90	<1.0	-	-	-
L2164448-6	FieldBlank	9/12/2018	6.01	<2.0	<0.50	-	<10	<3.0	<0.10	2.00	<1.0	-	-	-
L2188218-6	FieldBlank	10/26/2018	5.55	<2.0	<0.50	-	<10	<3.0	<0.10	1.90	<1.0	-	-	-
L2203408-7	FieldBlank	11/27/2018	5.44	<2.0	<0.50	-	<10	<3.0	<0.10	2.30	<1.0	-	-	-
L2213246-5	FieldBlank	12/18/2018	6.22	<2.0	<0.50	-	<10	<3.0	<0.10	<1.0	<1.0	-	-	-
L2227701-5	FieldBlank	1/30/2019	5.38	<2.0	<0.50	-	<10	<3.0	<0.10	1.70	<1.0	-	-	-
L2233329-5	FieldBlank	2/13/2019	6.01	<2.0	<0.50	-	<10	<3.0	<0.10	2.40	<1.0	-	-	-
L2244756-6	FieldBlank	3/13/2019	5.43	<2.0	<0.50	-	<10	<3.0	<0.10	1.40	<1.0	-	-	-
L2256054-7	FieldBlank	4/9/2019	5.29	<2.0	<0.50	-	<10	<3.0	<0.10	2.20	<1.0	-	-	-
L2269368-7	FieldBlank	5/4/2019	5.48	<2.0	<0.50	-	<10	<3.0	<0.10	2.10	<1.0	-	-	-
L2275791-3	FieldBlank	5/16/2019	5.61	<2.0	<0.50	-	<10	<3.0	<0.10	2.00	<1.0	-	-	-
L2277964-3	FieldBlank	5/21/2019	6.40	<2.0	<0.50	-	<10	<3.0	<0.10	1.40	<1.0	-	-	-
L2282975-5	FieldBlank	5/29/2019	5.62	<2.0	<0.50	-	<10	<3.0	<0.10	2.10	<1.0	-	-	-
L2285579-5	FieldBlank	6/3/2019	5.52	<2.0	<0.50	-	<10	<3.0	<0.10	2.30	<1.0	-	-	-
L2313851-7	FieldBlank	7/18/2019	5.69	<2.0	<0.50	-	<10	<3.0	<0.10	2.00	<1.0	-	-	-
L2325935-5	FieldBlank	8/7/2019	5.65	<2.0	<0.50	-	<10	<3.0	<0.10	2.00	<1.0	-	-	-
L2349445-6	FieldBlank	9/16/2019	5.43	<2.0	<0.50	-	<10	<3.0	<0.10	2.00	<1.0	-	-	-
L2371052-7	FieldBlank	10/22/2019	5.62	<2.0	<0.50	-	<10	<3.0	<0.10	<2.0	<1.0	-	-	-
L2388381-8	FieldBlank	11/25/2019	5.89	<2.0	<0.50	-	<10	<3.0	<0.10	<2.0	<1.0	-	-	-
VA19A0791-006	FieldBlank	12/17/2019	5.32	<2.0	<0.60	-	<10	<3.0	<0.10	2.10	<1.0	-	-	-
VA20A0960-006	FieldBlank	1/27/2020	5.56	<2.0	<0.60	<0.60	<10	<3.0	<0.10	<2.0	<1.0	-	-	-
VA20A2211-006	FieldBlank	2/20/2020	5.57	<2.0	<0.60	<0.60	<10	<3.0	<0.10	2.20	<1.0	-	-	-
VA20A3580-004	FieldBlank	3/17/2020	5.54	<2.0	<0.60	<0.60	<10	<3.0	<0.10	<2.0	<1.0	-	-	-
VA20A4424-004	FieldBlank	4/2/2020	5.60	<2.0	<0.60	<0.60	<10	<3.0	<0.10	<2.0	<1.0	-	-	-
VA20A6114-003	FieldBlank	5/6/2020	5.92	<2.0	<0.60	<0.60	<10	<3.0	<0.10	<2.0	<1.0	-	-	-
VA20A6503-006	FieldBlank	5/13/2020	5.49	<2.0	<0.60	<0.60	<10	<3.0	<0.10	2.10	<1.0	-	-	-
VA20A6869-007	FieldBlank	5/20/2020	5.42	<2.0	<0.60	<0.60	<10	<3.0	<0.10	<2.0	<1.0	-	-	-
VA20A7202-004	FieldBlank	5/26/2020	5.31	<2.0	<0.60	<0.60	<10	<3.0	<0.10	2.20	<1.0	-	-	-
VA20A7367-006	FieldBlank	5/28/2020	5.36	<2.0	-	<0.60	<10	<3.0	<0.10	<2.0	<1.0	-	-	-
VA20A7797-005	FieldBlank	6/3/2020	5.15	<2.0	<0.60	<0.60	<10	<3.0	<0.10	<2.0	<1.0	-	-	-
VA20B0021-005	FieldBlank	7/7/2020	5.26	<2.0	<0.60	<0.60	<10	<3.0	<0.10	2.30	<1.0	-	-	-
VA20B2156-007	FieldBlank	8/5/2020	5.47	<2.0	<0.60	<0.60	<10	<3.0	<0.10	2.00	<1.0	-	-	-
VA20B2426-003	FieldBlank	8/10/2020	5.46	<2.0	<0.60	<0.60	<10	<3.0	<0.10	<2.0	<1.0	-	-	-
VA20B3033-004	FieldBlank	8/17/2020	5.35	<2.0	<0.60	<0.60	<10	<3.0	<0.10	2.10	<1.0	-	-	-
VA20B3860-005	FieldBlank	8/26/2020	5.45	<2.0	<0.60	<0.60	<10	<3.0	<0.10	<2.0	<1.0	-	-	-
VA20B4443-006	FieldBlank	9/2/2020	5.54	<2.0	<0.60	<0.60	<10	<3.0	<0.10	2.10	<1.0	-	-	-
VA20B7828-005	FieldBlank	10/8/2020	5.42	<2.0	<0.60	<0.60	<10	<3.0	<0.10	2.00	<1.0	-	-	-
VA20B9945-003	FieldBlank	11/2/2020	5.38	<2.0	<0.60	<0.60	<10	<3.0	<0.10	<2.0	<1.0	-	-	-
VA20C1415-003	FieldBlank	11/19/2020	5.41	<2.0	-	<0.60	<10	<3.0	<0.10	2.20	<1.0	-	-	-
X11.3641.	TravelBlank	3/30/2011	6.38	4,000	<6.0	<6.0	<4	<2	<0.1	-	2.00	-	-	-

Appendix F: Water Quality Field and Travel Blanks, Blackwater Gold Project

Lab ID	Client Sample ID	Date	Physical Tests											
			pH	Conductivity	Hardness (as CaCO ₃)	Hardness, Total (as CaCO ₃)	Total Dissolved Solids	Total Suspended Solids	Turbidity	Acidity (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)	Alkalinity, Hydroxide (as CaCO ₃)	Alkalinity, Carbonate (as CaCO ₃)	Alkalinity, Bicarbonate (as CaCO ₃)
			pH units	µS/cm	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	mg/L
L997464-10	TravelBlank	4/19/2011	-	-	-	-	-	-	-	-	-	-	-	-
X11.4272.	TravelBlank	4/19/2011	6.20	3,000	<6.0	<6.0	<4	<2	<0.1	-	2.00	-	-	-
L1007174-15	TravelBlank	5/17/2011	-	-	-	-	-	-	-	-	-	-	-	-
X11.5512.	TravelBlank	5/17/2011	5.97	5.00	<6.0	<6.0	<4	<2	<0.1	-	4.00	-	-	-
L1009554-15	TravelBlank	5/26/2011	-	-	-	-	-	-	-	-	-	-	-	-
X11.5872.	TravelBlank	5/27/2011	5.82	4.00	<6.0	<6.0	<4	<2	<0.1	-	<1	-	-	-
X11.6102.	TravelBlank	5/30/2011	5.97	6.00	<6.0	<6.0	<4	<2	<0.1	-	<1	-	-	-
L1014653-15	TravelBlank	6/6/2011	-	-	-	-	-	-	-	-	-	-	-	-
X11.6394.	TravelBlank	6/6/2011	5.78	7.00	<6.0	<6.0	<4	<2	0.100	-	<1	-	-	-
L1018027-16	TravelBlank	6/13/2011	-	-	-	-	-	-	-	-	-	-	-	-
X11.6766.	TravelBlank	6/13/2011	5.73	3,000	<6.0	<6.0	<4	<2	<0.1	-	<1	-	-	-
L1033697-14	TravelBlank	7/18/2011	-	-	-	-	-	-	-	-	-	-	-	-
L1033953-16	TravelBlank	7/18/2011	-	-	-	-	-	-	-	-	-	-	-	-
X11.9203.	TravelBlank	7/18/2011	5.83	2.00	<6.0	<6.0	<4	<2	<0.1	-	<1	-	-	-
L1046189-16	TravelBlank	8/15/2011	-	-	-	-	-	-	-	-	-	-	-	-
X11.10881.	TravelBlank	8/15/2011	5.58	1.00	<6.0	<6.0	<4	<2	0.500	-	<1	-	-	-
L1061327-16	TravelBlank	9/19/2011	-	-	-	-	-	-	-	-	-	-	-	-
X11.13831.	TravelBlank	9/19/2011	5.37	1.00	<6.0	<6.0	<4	<2	0.400	-	<1	-	-	-
L1073886-16	TravelBlank	10/17/2011	-	-	-	-	-	-	-	-	-	-	-	-
X11.16744.	TravelBlank	10/17/2011	5.33	1.00	<6.0	<6.0	<4	<2	0.300	-	<1	-	-	-
L1085601-16	TravelBlank	11/14/2011	-	-	-	-	-	-	-	-	-	-	-	-
X11.19511.	TravelBlank	11/14/2011	5.22	-	<6.0	<6.0	<4	<2	0.300	-	<1	-	-	-
L1096214-6	TravelBlank	12/13/2011	-	-	-	-	-	-	-	-	-	-	-	-
X11.21065.	TravelBlank	12/13/2011	5.14	-	<6.0	<6.0	<4	<2	0.600	-	<1	-	-	-
X12.1360.	TravelBlank	1/12/2012	5.23	-	<6.0	<6.0	<4	<2	0.300	-	<1	-	-	-
L1105609-10	TravelBlank	1/19/2012	-	-	-	-	-	-	-	-	-	-	-	-
L1114156-8	TravelBlank	2/13/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.1774.	TravelBlank	2/13/2012	5.84	-	<6.0	<6.0	<4	<2	0.300	-	<1	-	-	-
L1124156-14	TravelBlank	3/3/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.2569.	TravelBlank	3/12/2012	5.68	-	<6.0	<6.0	<4	<2	0.300	-	<1	-	-	-
L1136250-12	TravelBlank	4/17/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.3457.	TravelBlank	4/17/2012	5.74	1.00	<6.0	<6.0	<4	<2	0.200	-	<1	-	-	-
L1136681-2	TravelBlank	4/20/2012	-	-	-	-	-	-	-	-	-	-	-	-
L1136681-2	TravelBlank	4/25/2012	-	-	-	-	-	-	-	-	-	-	-	-
L1148378-9	TravelBlank	5/14/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.4671.	TravelBlank	5/14/2012	5.70	-	<6.0	<6.0	<4	<2	0.700	-	2.00	-	-	-
L1150853-11	TravelBlank	5/22/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.4926.	TravelBlank	5/22/2012	6.31	6.00	<6.0	<6.0	4.00	<2	0.300	-	2.00	-	-	-
X12.5343.	TravelBlank	5/28/2012	5.81	4.00	<6.0	<6.0	4.00	<2	<0.1	-	2.00	-	-	-
L1154508-16	TravelBlank	5/30/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.5799.	TravelBlank	6/4/2012	5.23	-	<6.0	<6.0	<4	<2	<0.1	-	<1	-	-	-
L1158839-16	TravelBlank	6/7/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.6093.	TravelBlank	6/11/2012	5.47	-	<6.0	<6.0	<4	<2	<0.1	-	2.00	-	-	-
L1161703-16	TravelBlank	6/12/2012	-	-	-	-	-	-	-	-	-	-	-	-
L1165411-15	TravelBlank	6/16/2012	-	-	-	-	-	-	-	-	-	-	-	-

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			pH units	µS/cm	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	mg/L
X12.6476.	TravelBlank	6/18/2012	5.48	-	<6.0	<6.0	<4	<2	0.200	-	2.00	-	-	-
L1169894-15	TravelBlank	6/25/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.6899.	TravelBlank	6/25/2012	5.65	-	<6.0	<6.0	4.00	<2	0.200	-	1.00	-	-	-
L1180296-15	TravelBlank	7/16/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.8106.	TravelBlank	7/16/2012	5.55	1.00	<6.0	<6.0	20.0	<2	<0.1	-	2.00	-	-	-
L1180440-16	TravelBlank	7/18/2012	-	-	-	-	-	-	-	-	-	-	-	-
L1194631-16	TravelBlank	8/13/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.9629.	TravelBlank	8/13/2012	5.61	-	<6.0	<6.0	4.00	<2	0.100	-	<1	-	-	-
X12.11285.	TravelBlank	9/12/2012	6.28	1.00	<6.0	<6.0	<4	<2	0.900	-	8.00	-	-	-
L1211510-16	TravelBlank	9/17/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.11626.	TravelBlank	9/17/2012	5.76	-	<6.0	<6.0	<4	<2	0.500	-	9.00	-	-	-
X12.14643.	TravelBlank	10/15/2012	5.90	1.00	<6.0	<6.0	<4	<2	0.200	-	<1	-	-	-
L1224463-10	TravelBlank	10/16/2012	-	-	-	-	-	-	-	-	-	-	-	-
L1238081-9	TravelBlank	11/12/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.16750.	TravelBlank	11/12/2012	5.55	1.00	<6.0	<6.0	4.00	<2	0.500	-	<1	-	-	-
L1249297-11	TravelBlank	12/10/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.18159.	TravelBlank	12/10/2012	5.60	<1	<6.0	<6.0	<4	<2	0.400	-	<1	-	-	-
X13.1302.	TravelBlank	1/13/2013	5.69	-	<6.0	<6.0	<4	<2	0.400	-	<1	-	-	-
L1259237-7	TravelBlank	1/15/2013	-	-	-	-	-	-	-	-	-	-	-	-
L1263408-5	TravelBlank	1/28/2013	-	-	-	-	-	-	-	-	-	-	-	-
X13.1482.	TravelBlank	1/28/2013	5.75	1.00	<6.0	<6.0	<4	<2	0.700	-	<1	-	-	-
L1268429-14	TravelBlank	2/13/2013	-	-	-	-	-	-	-	-	-	-	-	-
X13.1784.	TravelBlank	2/13/2013	5.62	1.00	<6.0	<6.0	<4	<2	0.300	-	<1	-	-	-
L1279413-10	TravelBlank	3/11/2013	-	-	-	-	-	-	-	-	-	-	-	-
X13.2409.	TravelBlank	3/11/2013	5.83	<1	<6.0	<6.0	<4	<2	0.500	-	1.00	-	-	-
L1291117-6	TravelBlank	4/16/2013	-	-	-	-	-	-	-	-	-	-	-	-
L1291332-16	TravelBlank	4/16/2013	-	-	-	-	-	-	-	-	-	-	-	-
X13.3032.	TravelBlank	4/16/2013	5.53	<1	<6.0	<6.0	<4	<2	0.200	-	<1	-	-	-
L1302195-19	TravelBlank	5/14/2013	-	-	-	-	-	-	-	-	-	-	-	-
X13.4101.	TravelBlank	5/14/2013	5.84	<1	<6.0	<6.0	<4	<2	0.500	-	1.00	-	-	-
L1306457-19	TravelBlank	5/22/2013	-	-	-	-	-	-	-	-	-	-	-	-
X13.4509.	TravelBlank	5/22/2013	5.69	<1	<6.0	<6.0	<4	<2	0.500	-	<1	-	-	-
L1308302-19	TravelBlank	5/28/2013	-	-	-	-	-	-	-	-	-	-	-	-
X13.4668.	TravelBlank	5/28/2013	6.21	1.00	<6.0	<6.0	4.00	<2	0.500	-	<1	-	-	-
L1312787-10	TravelBlank	6/6/2013	-	-	-	-	-	-	-	-	-	-	-	-
X13.5064.	TravelBlank	6/6/2013	6.10	1.00	<6.0	<6.0	<4	<2	0.400	-	<1	-	-	-
X13.5363.	TravelBlank	6/10/2013	5.78	<1	<6.0	<6.0	<4	<2	1.30	-	<1	-	-	-
L1315720-11	TravelBlank	6/12/2013	-	-	-	-	-	-	-	-	-	-	-	-
L1319271-11	TravelBlank	6/17/2013	-	-	-	-	-	-	-	-	-	-	-	-
X13.5932.	TravelBlank	6/17/2013	5.64	<1	<6.0	<6.0	<4	<2	1.00	-	<1	-	-	-
L1443351.11	TravelBlank	4/13/2014	-	-	-	-	-	-	-	-	-	-	-	-
X14.3953.	TravelBlank	4/13/2014	5.64	1.00	<6.0	-	<4	<2	0.100	<1	-	-	-	-
L1459347.4	TravelBlank	5/21/2014	5.70	<2.0	-	-	<10	<3.0	<0.10	-	<2	<2	<2	<2
L1480734.11	TravelBlank	7/2/2014	-	-	-	-	-	-	-	-	-	-	-	-
X14.8161.	TravelBlank	7/2/2014	5.88	1.00	<6.0	-	<4	<2	0.200	<1	-	-	-	-

Appendix F: Water Quality Field and Travel Blanks, Blackwater Gold Project

Lab ID	Client Sample ID	Date	Physical Tests											
			pH	Conductivity	Hardness (as CaCO ₃)	Hardness, Total (as CaCO ₃)	Total Dissolved Solids	Total Suspended Solids	Turbidity	Acidity (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)	Alkalinity, Hydroxide (as CaCO ₃)	Alkalinity, Carbonate (as CaCO ₃)	Alkalinity, Bicarbonate (as CaCO ₃)
			pH units	µS/cm	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	mg/L
L1524229.11	TravelBlank	9/24/2014	-	-	-	-	-	-	-	-	-	-	-	-
X14.13297.	TravelBlank	9/24/2014	5.69	1.00	<6.0	-	8.00	<2	<0.1	<1	-	-	-	-
L1526062.3	TravelBlank	9/29/2014	5.60	<2.0	-	<0.50	<10	<3.0	<0.10	-	<2	<2	<2	<2
L1558493.8	TravelBlank	12/9/2014	-	-	-	-	-	-	-	-	-	-	-	-
X14.18000.	TravelBlank	12/9/2014	5.85	2.00	<6.0	-	<4	<2	<0.1	<1	-	-	-	-
L1748423.5	TravelBlank	3/23/2016	5.49	<2.0	-	<0.50	<10	<3.0	<0.10	-	<1.0	<1.0	<1.0	<1.0
L1764648.7	TravelBlank	5/3/2016	6.24	<2.0	-	-	<10	<3.0	<0.10	1.40	<1.0	-	-	-
L1767107.7	TravelBlank	5/9/2016	5.70	<2.0	-	<0.50	<10	<3.0	<0.10	1.30	<1.0	-	-	-
L1770672.7	TravelBlank	5/16/2016	5.47	<2.0	-	-	<10	<3.0	<0.10	1.20	<1.0	-	-	-
L1774541.7	TravelBlank	5/25/2016	5.97	<2.0	-	<0.50	<10	<3.0	<0.10	1.20	<1.0	-	-	-
L1780840.4	TravelBlank	6/7/2016	5.38	<2.0	-	<0.50	<10	<3.0	<0.10	-	<1.0	<1.0	<1.0	<1.0
L1788643.7	TravelBlank	6/22/2016	5.84	<2.0	-	-	<10	<3.0	<0.10	1.20	<1.0	-	-	-
L1808945.7	TravelBlank	8/3/2016	5.76	<2.0	-	-	<10	<3.0	<0.10	1.90	<1.0	-	-	-
L1812856.7	TravelBlank	8/10/2016	5.60	<2.0	-	-	<10	<3.0	<0.10	2.20	<1.0	-	-	-
L1815654.7	TravelBlank	8/16/2016	5.66	<2.0	-	-	<10	<3.0	<0.10	2.00	1.00	-	-	-
L1819041.5	TravelBlank	8/23/2016	5.30	<2.0	-	-	<10	<3.0	<0.10	2.60	<1.0	-	-	-
L1823224.10	TravelBlank	8/31/2016	5.36	<1.0	-	-	<10	<3.0	<0.10	1.50	<1.0	-	-	-
L1826303.9	TravelBlank	9/7/2016	5.29	<2.0	-	-	<10	<3.0	<0.10	2.10	<1.0	-	-	-
L1829276.3	TravelBlank	9/13/2016	5.48	<1.0	-	-	<10	<3.0	<0.10	-	<1.0	<1.0	<1.0	<1.0
L1913006.1	TravelBlank	4/11/2017	5.31	<2.0	-	-	<10	<3.0	<0.10	1.90	<1.0	-	-	-
L1925102.2	TravelBlank	5/9/2017	5.29	<2.0	-	-	<10	<3.0	<0.10	2.00	<1.0	-	-	-
L1928943.6	TravelBlank	5/17/2017	5.39	<2.0	-	-	<10	<3.0	<0.10	1.90	<1.0	-	-	-
L1932034.6	TravelBlank	5/24/2017	5.14	<2.0	-	-	<10	<3.0	<0.10	2.00	<1.0	-	-	-
L1935151.6	TravelBlank	5/30/2017	5.75	<2.0	-	-	<10	<3.0	<0.10	1.90	<1.0	-	-	-
L1939712.6	TravelBlank	6/7/2017	5.59	<2.0	-	<0.50	<10	<3.0	<0.10	2.30	<1.0	-	-	-
L1962414.7	TravelBlank	7/19/2017	5.71	<2.0	-	-	<10	<3.0	<0.10	1.90	<1.0	-	-	-
L1984944.11	TravelBlank	8/30/2017	5.72	<2.0	-	-	<10	<3.0	<0.10	2.20	<1.0	-	-	-
L1988190.5	TravelBlank	9/6/2017	5.71	<2.0	-	-	<10	<3.0	<0.10	2.00	<1.0	-	-	-
L1991279.5	TravelBlank	9/13/2017	5.93	<2.0	-	-	<10	<3.0	<0.10	1.90	<1.0	-	-	-
L1995655.6	TravelBlank	9/21/2017	6.08	<2.0	-	-	<10	<3.0	<0.10	1.40	<1.0	-	-	-
L1999769.6	TravelBlank	9/28/2017	5.84	<2.0	-	-	<10	<3.0	<0.10	1.90	<1.0	-	-	-
L2009845.8	TravelBlank	10/17/2017	5.74	<2.0	-	<0.50	<10	<3.0	<0.10	1.40	<1.0	-	-	-
L2020333.8	TravelBlank	11/7/2017	5.76	<2.0	-	-	<10	<3.0	<0.10	1.50	<1.0	-	-	-
L2035356-5	TravelBlank	12/12/2017	5.88	<2.0	-	<0.50	<10	<3.0	<0.10	1.30	<1.0	-	-	-
L2049678-7	TravelBlank	1/24/2018	5.89	<2.0	-	-	<10	<3.0	<0.10	2.00	<1.0	-	-	-
L2057025-3	TravelBlank	2/13/2018	5.48	<2.0	-	-	<10	<3.0	<0.10	2.30	<1.0	-	-	-
L2073898-4	TravelBlank	3/27/2018	5.39	<2.0	-	-	<10	<3.0	<0.10	1.90	<1.0	-	-	-
L2081505-4	TravelBlank	4/16/2018	5.77	<2.0	-	-	<10	<3.0	<0.10	2.10	<1.0	-	-	-
L2093061-5	TravelBlank	5/9/2018	5.82	<2.0	-	-	<10	<3.0	<0.10	2.10	<1.0	-	-	-
L2097084-10	TravelBlank	5/16/2018	5.82	<2.0	<0.50	-	<10	<3.0	<0.10	1.40	<1.0	-	-	-
L2100419-5	TravelBlank	5/23/2018	5.86	<2.0	-	-	<10	<3.0	<0.10	1.60	<1.0	-	-	-
L2102737-4	TravelBlank	5/28/2018	5.50	<2.0	-	-	<10	<3.0	<0.10	1.50	<1.0	-	-	-
L2106738-5	TravelBlank	6/4/2018	5.77	<2.0	-	-	<10	<3.0	<0.10	1.90	<1.0	-	-	-
L2132128-6	TravelBlank	7/17/2018	5.66	<2.0	<0.50	-	<10	<3.0	<0.10	2.10	<1.0	-	-	-
L2143640-5	TravelBlank	8/7/2018	5.90	<2.0	<0.50	-	<10	<3.0	<0.10	1.80	<1.0	-	-	-

Appendix F: Water Quality Field and Travel Blanks, Blackwater Gold Project

Lab ID	Client Sample ID	Date	Physical Tests											
			pH	Conductivity	Hardness (as CaCO ₃)	Hardness, Total (as CaCO ₃)	Total Dissolved Solids	Total Suspended Solids	Turbidity	Acidity (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)	Alkalinity, Hydroxide (as CaCO ₃)	Alkalinity, Carbonate (as CaCO ₃)	Alkalinity, Bicarbonate (as CaCO ₃)
			pH units	µS/cm	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	mg/L
L2156026-5	TravelBlank	8/28/2018	5.57	<2.0	-	-	<10	<3.0	<0.10	1.90	<1.0	-	-	-
L2159605-5	TravelBlank	9/4/2018	5.60	<2.0	-	-	<10	<3.0	<0.10	1.90	<1.0	-	-	-
L2160840-5	TravelBlank	9/7/2018	5.60	<2.0	-	-	<10	<3.0	<0.10	2.10	<1.0	-	-	-
L2164448-7	TravelBlank	9/12/2018	5.34	<2.0	-	-	<10	<3.0	<0.10	2.40	<1.0	-	-	-
L2188218-7	TravelBlank	10/26/2018	5.47	<2.0	-	-	<10	<3.0	<0.10	1.90	<1.0	-	-	-
L2203408-6	TravelBlank	11/27/2018	5.46	<2.0	<0.50	-	<10	<3.0	<0.10	2.50	<1.0	-	-	-
L2213246-6	TravelBlank	12/18/2018	5.87	<2.0	-	-	<10	<3.0	<0.10	1.70	<1.0	-	-	-
L2227101-7	TravelBlank	1/29/2019	5.39	<2.0	<0.50	-	<10	<3.0	<0.10	2.20	<1.0	-	-	-
L2233329-7	TravelBlank	2/13/2019	5.82	<2.0	-	-	<10	<3.0	<0.10	2.10	<1.0	-	-	-
L2245144-6	TravelBlank	3/14/2019	5.75	<2.0	<0.50	-	<10	<3.0	<0.10	1.10	<1.0	-	-	-
L2256054-6	TravelBlank	4/9/2019	5.38	<2.0	<0.50	-	<10	<3.0	<0.10	1.70	<1.0	-	-	-
L2269368-5	TravelBlank	5/4/2019	5.49	<2.0	<0.50	-	<10	<3.0	<0.10	1.90	<1.0	-	-	-
L2277964-2	TravelBlank	5/21/2019	6.90	<2.0	-	-	<10	<3.0	<0.10	1.30	<1.0	-	-	-
L2282191-4	TravelBlank	5/28/2019	5.42	<2.0	-	-	<10	<3.0	<0.10	2.00	<1.0	-	-	-
L2282975-7	TravelBlank	5/29/2019	6.09	<2.0	-	-	<10	<3.0	<0.10	1.80	<1.0	-	-	-
L2286702-6	TravelBlank	6/4/2019	6.15	<2.0	-	-	<10	<3.0	<0.10	2.00	<1.0	-	-	-
L2313851-6	TravelBlank	7/18/2019	5.69	<2.0	<0.50	-	<10	<3.0	<0.10	2.00	<1.0	-	-	-
L2329543-4	TravelBlank	8/13/2019	6.05	<2.0	<0.50	-	<10	<3.0	<0.10	1.70	<1.0	-	-	-
L2350223-5	TravelBlank	9/17/2019	5.96	<2.0	-	-	<10	<3.0	<0.10	2.00	<1.0	-	-	-
L2372667-5	TravelBlank	10/23/2019	5.65	<2.0	-	-	<10	<3.0	<0.10	2.00	<1.0	-	-	-
L2388381-7	TravelBlank	11/25/2019	6.05	<2.0	<0.50	-	<10	<3.0	<0.10	<2.0	<1.0	-	-	-
VA19A0791-007	TravelBlank	12/17/2019	5.33	<2.0	-	<0.60	<10	<3.0	<0.10	2.00	<1.0	-	-	-
VA20A1056-003	TravelBlank	1/28/2020	5.49	<2.0	-	<0.60	<10	<3.0	<0.10	2.00	<1.0	-	-	-
VA20A2211-007	TravelBlank	2/20/2020	5.54	<2.0	-	<0.60	<10	<3.0	<0.10	2.30	<1.0	-	-	-
VA20A3691-005	TravelBlank	3/18/2020	5.52	<2.0	-	<0.60	<10	<3.0	<0.10	<2.0	<1.0	-	-	-
VA20A4555-006	TravelBlank	4/7/2020	5.42	<2.0	-	<0.60	<10	<3.0	<0.10	<2.0	<1.0	-	-	-
VA20A6218-006	TravelBlank	5/7/2020	5.44	<2.0	-	<0.60	<10	<3.0	<0.10	<2.0	<1.0	-	-	-
VA20A6574-004	TravelBlank	5/14/2020	5.55	<2.0	-	<0.60	<10	<3.0	<0.10	<2.0	<1.0	-	-	-
VA20A6869-008	TravelBlank	5/20/2020	5.38	<2.0	-	<0.60	<10	<3.0	<0.10	<2.0	<1.0	-	-	-
VA20A7797-006	TravelBlank	6/3/2020	5.08	<2.0	-	<0.60	<10	<3.0	<0.10	<2.0	<1.0	-	-	-
VA20B0021-006	TravelBlank	7/7/2020	5.25	<2.0	-	<0.60	<10	<3.0	<0.10	2.80	<1.0	-	-	-
VA20B2212-004	TravelBlank	8/6/2020	5.45	<2.0	-	<0.60	<10	<3.0	<0.10	2.00	<1.0	-	-	-
VA20B2692-003	TravelBlank	8/12/2020	5.43	<2.0	-	<0.60	<10	<3.0	<0.10	2.10	<1.0	-	-	-
VA20B3264-003	TravelBlank	8/19/2020	5.50	<2.0	-	<0.60	<10	<3.0	<0.10	2.10	<1.0	-	-	-
VA20B3860-004	TravelBlank	8/26/2020	5.48	<2.0	-	<0.60	<10	<3.0	<0.10	2.00	<1.0	-	-	-
VA20B4443-007	TravelBlank	9/2/2020	5.54	<2.0	-	<0.60	<10	<3.0	<0.10	2.00	<1.0	-	-	-
VA20B7828-006	TravelBlank	10/8/2020	5.41	<2.0	-	<0.60	<10	<3.0	<0.10	2.00	<1.0	-	-	-

Notes:
 "-" indicates parameter was not analyzed.
 "<" value is below the detection limit

Appendix F: Water Quality Field and Travel Blanks, Blackwater Gold Project

Lab ID	Client Sample ID	Date	Anions and Nutrients										Cyanides					
			Total Kjeldahl Nitrogen	Ammonia, Total (as N)	Bromide (Br)	Chloride (Cl)	Fluoride (F)	Nitrate (as N)	Nitrite (as N)	Orthophosphate-Dissolved (as P)	Phosphorus (P)-Total	Phosphorus Total Dissolved	Sulfate (SO ₄)	Cyanide, Total	Cyanide, Weak Acid Diss	Cyanide, Free	Cyanate	Thiocyanate
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
X11.3640.	FieldBlank	3/30/2011	<0.08	<0.02	-	<0.1	0.0300	<0.005	<0.003	<0.003	-	<0.001	0.800	-	-	-	-	-
L997464-9	FieldBlank	4/19/2011	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X11.4271.	FieldBlank	4/19/2011	<0.08	<0.02	-	<0.1	0.0200	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1007174-14	FieldBlank	5/17/2011	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X11.5511.	FieldBlank	5/17/2011	<0.08	<0.02	-	0.200	0.0200	<0.005	<0.003	<0.003	-	<0.001	1.50	-	-	-	-	-
L1009554-14	FieldBlank	5/25/2011	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X11.5871.	FieldBlank	5/25/2011	<0.08	<0.02	-	0.100	0.0200	<0.005	<0.003	<0.003	-	<0.001	1.20	-	-	-	-	-
X11.6101.	FieldBlank	5/30/2011	0.170	0.0200	-	<0.1	0.0300	<0.005	<0.003	<0.003	-	<0.001	2.00	-	-	-	-	-
L1014653-14	FieldBlank	6/6/2011	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X11.6393.	FieldBlank	6/6/2011	<0.08	<0.02	-	0.100	0.0300	<0.005	<0.003	<0.003	-	<0.001	1.20	-	-	-	-	-
L1018027-14	FieldBlank	6/13/2011	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
L1018027-15	FieldBlank	6/13/2011	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X11.6765.	FieldBlank	6/13/2011	<0.08	<0.02	-	<0.1	<0.02	<0.005	<0.003	<0.003	-	<0.001	0.800	-	-	-	-	-
L1033697-13	FieldBlank	7/18/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.50
L1033953-15	FieldBlank	7/18/2011	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X11.9202.	FieldBlank	7/18/2011	<0.08	0.0400	-	0.300	0.0200	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1046189-15	FieldBlank	8/15/2011	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X11.10880.	FieldBlank	8/15/2011	<0.08	<0.02	-	-	-	-	-	-	-	<0.001	-	-	-	-	-	-
L1061327-15	FieldBlank	9/19/2011	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X11.13830.	FieldBlank	9/19/2011	<0.08	<0.02	-	0.100	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1073886-15	FieldBlank	10/17/2011	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X11.16743.	FieldBlank	10/17/2011	<0.08	<0.02	-	0.100	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1085601-15	FieldBlank	11/14/2011	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X11.19510.	FieldBlank	11/14/2011	<0.08	<0.01	-	<0.1	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1096214-5	FieldBlank	12/13/2011	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X11.21064.	FieldBlank	12/13/2011	<0.08	<0.02	-	<0.1	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
X12.1359.	FieldBlank	1/12/2012	<0.08	<0.02	-	<0.1	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1105609-9	FieldBlank	1/19/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.50
L1114156-9	FieldBlank	2/13/2012	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X12.1775.	FieldBlank	2/13/2012	<0.08	<0.01	-	<0.1	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1124156-15	FieldBlank	3/3/2012	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X12.2570.	FieldBlank	3/12/2012	<0.08	<0.02	-	<0.1	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1136250-11	FieldBlank	4/17/2012	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X12.3456.	FieldBlank	4/17/2012	<0.08	<0.02	-	-	-	-	-	-	-	<0.001	-	-	-	-	-	-
L1136681-1	FieldBlank	4/20/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.50
L1136681-1	FieldBlank	4/25/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.20	-
L1149027-7	FieldBlank	5/15/2012	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X12.4684.	FieldBlank	5/15/2012	<0.08	<0.02	-	1.00	0.0500	0.00700	0.00300	0.0150	-	<0.001	<0.5	-	-	-	-	-
L1150853-10	FieldBlank	5/22/2012	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X12.4925.	FieldBlank	5/22/2012	<0.08	<0.02	-	0.700	0.0300	<0.005	<0.003	0.0160	-	<0.001	<0.5	-	-	-	-	-
X12.5342.	FieldBlank	5/28/2012	<0.08	<0.02	-	0.700	0.0200	0.0100	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1154508-15	FieldBlank	5/30/2012	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X12.5798.	FieldBlank	6/4/2012	<0.08	<0.02	-	0.300	<0.02	<0.005	<0.003	<0.003	-	0.00200	<0.5	-	-	-	-	-
L1158839-15	FieldBlank	6/7/2012	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X12.6092.	FieldBlank	6/11/2012	<0.08	<0.02	-	<0.1	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-

Appendix F: Water Quality Field and Travel Blanks, Blackwater Gold Project

Lab ID	Client Sample ID	Date	Anions and Nutrients										Cyanides					
			Total Kjeldahl Nitrogen	Ammonia, Total (as N)	Bromide (Br)	Chloride (Cl)	Fluoride (F)	Nitrate (as N)	Nitrite (as N)	Orthophosphate-Dissolved (as P)	Phosphorus (P)-Total	Phosphorus Total Dissolved	Sulfate (SO ₄)	Cyanide, Total	Cyanide, Weak Acid Diss	Cyanide, Free	Cyanate	Thiocyanate
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1161703-15	FieldBlank	6/12/2012	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
L1165411-14	FieldBlank	6/16/2012	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X12.6475.	FieldBlank	6/18/2012	0.160	<0.02	-	<0.1	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1169894-14	FieldBlank	6/25/2012	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X12.6898.	FieldBlank	6/25/2012	<0.08	<0.02	-	<0.1	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1180296-14	FieldBlank	7/16/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.20	<0.50
X12.8105.	FieldBlank	7/16/2012	<0.08	<0.02	-	<0.1	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1180440-15	FieldBlank	7/18/2012	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
L1194631-15	FieldBlank	8/13/2012	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X12.9628.	FieldBlank	8/13/2012	<0.08	<0.02	-	<0.1	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
X12.11284.	FieldBlank	9/12/2012	<0.08	<0.02	-	<0.1	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1211510-15	FieldBlank	9/17/2012	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X12.11625.	FieldBlank	9/17/2012	<0.08	<0.02	-	<0.1	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1224463-18	FieldBlank	10/16/2012	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
L1224796-8	FieldBlank	10/16/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.2	<0.5
X12.14768.	FieldBlank	10/16/2012	<0.08	<0.02	-	<0.1	<0.02	<0.005	<0.003	0.0110	-	<0.001	<0.5	-	-	-	-	-
L1238081-8	FieldBlank	11/12/2012	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X12.16749.	FieldBlank	11/12/2012	<0.08	<0.02	-	<0.1	<0.02	<0.005	<0.003	0.00300	-	<0.001	<0.5	-	-	-	-	-
L1249297-10	FieldBlank	12/10/2012	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X12.18158.	FieldBlank	12/10/2012	<0.08	<0.02	-	0.100	<0.02	<0.005	0.00400	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1259237-6	FieldBlank	1/15/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.20	<0.50
X13.1312.	FieldBlank	1/15/2013	<0.08	<0.02	-	<0.1	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1265945-3	FieldBlank	2/4/2013	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X13.1614.	FieldBlank	2/4/2013	<0.08	<0.02	-	0.200	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1268429-13	FieldBlank	2/13/2013	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X13.1783.	FieldBlank	2/13/2013	<0.08	<0.02	-	0.200	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1279413-16	FieldBlank	3/12/2013	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X13.2415.	FieldBlank	3/12/2013	<0.08	<0.02	-	<0.1	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1291117-5	FieldBlank	4/16/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.2	<0.5
L1291332-15	FieldBlank	4/16/2013	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X13.3031.	FieldBlank	4/16/2013	<0.08	<0.02	-	<0.1	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1302195-18	FieldBlank	5/14/2013	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X13.4100.	FieldBlank	5/14/2013	<0.08	<0.02	-	0.100	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1306457-8	FieldBlank	5/21/2013	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X13.4448.	FieldBlank	5/21/2013	<0.08	<0.02	-	<0.1	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1308302-18	FieldBlank	5/28/2013	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X13.4667.	FieldBlank	5/28/2013	<0.08	<0.02	-	0.100	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1312787-19	FieldBlank	6/4/2013	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X13.5073.	FieldBlank	6/4/2013	<0.08	<0.02	-	<0.1	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
X13.5371.	FieldBlank	6/11/2013	<0.08	<0.02	-	<0.1	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1315720-19	FieldBlank	6/12/2013	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
L1319271-10	FieldBlank	6/17/2013	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X13.5931.	FieldBlank	6/17/2013	<0.08	<0.02	-	<0.1	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1443919.7	FieldBlank	4/15/2014	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X14.3974.	FieldBlank	4/15/2014	<0.08	0.0200	-	<0.1	<0.02	<0.005	<0.003	<0.003	-	<0.010	<0.5	-	-	-	-	-

Appendix F: Water Quality Field and Travel Blanks, Blackwater Gold Project

Lab ID	Client Sample ID	Date	Anions and Nutrients										Cyanides					
			Total Kjeldahl Nitrogen	Ammonia, Total (as N)	Bromide (Br)	Chloride (Cl)	Fluoride (F)	Nitrate (as N)	Nitrite (as N)	Orthophosphate-Dissolved (as P)	Phosphorus (P)-Total	Phosphorus Total Dissolved	Sulfate (SO ₄)	Cyanide, Total	Cyanide, Weak Acid Diss	Cyanide, Free	Cyanate	Thiocyanate
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1450068.2	FieldBlank	5/1/2014	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	-	<0.0020	<0.0020	<0.50	<0.0050	<0.0050	<0.0050	<0.20	<0.50
L1480734.12	FieldBlank	7/2/2014	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X14.8162.	FieldBlank	7/2/2014	<0.08	<0.02	-	<0.1	0.0400	<0.005	<0.003	<0.003	-	<0.010	<0.5	-	-	-	-	-
L1524229.12	FieldBlank	9/24/2014	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X14.13298.	FieldBlank	9/24/2014	<0.08	<0.02	-	<0.1	<0.02	<0.005	<0.003	<0.003	-	<0.010	<0.5	-	-	-	-	-
L1529638.3	FieldBlank	10/7/2014	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	<0.0020	<0.50	<0.0050	<0.0050	<0.0050	-	<0.50
L1558493.7	FieldBlank	12/9/2014	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X14.17999.	FieldBlank	12/9/2014	<0.08	<0.02	-	<0.1	0.0200	<0.005	<0.003	<0.003	-	<0.010	<0.5	-	-	-	-	-
L1750309.1	FieldBlank	3/29/2016	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	<0.0020	<0.30	<0.0050	<0.0050	<0.0050	<0.20	<0.50
L1764648.5	FieldBlank	5/3/2016	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	-
L1767107.5	FieldBlank	5/9/2016	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	-
L1770672.6	FieldBlank	5/16/2016	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	-
L1774541.5	FieldBlank	5/25/2016	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	-
L1786031.5	FieldBlank	6/16/2016	0.0550	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	<0.0020	<0.30	<0.0050	<0.0050	<0.0050	<0.20	<0.50
L1788643.5	FieldBlank	6/22/2016	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	-
L1808945.5	FieldBlank	8/3/2016	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	-
L1812856.5	FieldBlank	8/10/2016	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	-
L1815654.5	FieldBlank	8/16/2016	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	-
L1819041.3	FieldBlank	8/23/2016	0.0930	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	-
L1823224.9	FieldBlank	8/31/2016	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	-
L1826303.8	FieldBlank	9/7/2016	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	-
L1829784.6	FieldBlank	9/14/2016	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	<0.0020	<0.30	<0.0050	<0.0050	<0.0050	<0.20	<0.50
L1913531.1	FieldBlank	4/12/2017	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L1926080.6	FieldBlank	5/11/2017	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L1928943.4	FieldBlank	5/17/2017	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L1932034.5	FieldBlank	5/24/2017	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L1935151.4	FieldBlank	5/30/2017	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L1939712.5	FieldBlank	6/7/2017	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L1962414.6	FieldBlank	7/19/2017	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L1984944.9	FieldBlank	8/30/2017	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L1988190.4	FieldBlank	9/6/2017	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L1991279.4	FieldBlank	9/13/2017	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L1995655.4	FieldBlank	9/21/2017	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L1999769.5	FieldBlank	9/28/2017	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2009845.7	FieldBlank	10/17/2017	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2020333.7	FieldBlank	11/7/2017	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2034610-5	FieldBlank	12/11/2017	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	-	<0.0020	<0.30	<0.0050	<0.0050	-	-	<0.50
L2049678-6	FieldBlank	1/24/2018	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2060101-4	FieldBlank	2/22/2018	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2073898-3	FieldBlank	3/27/2018	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2081505-3	FieldBlank	4/16/2018	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2093061-4	FieldBlank	5/9/2018	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2097084-9	FieldBlank	5/16/2018	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2100419-4	FieldBlank	5/23/2018	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	0.530
L2104479-6	FieldBlank	5/30/2018	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	0.560

Appendix F: Water Quality Field and Travel Blanks, Blackwater Gold Project

Lab ID	Client Sample ID	Date	Anions and Nutrients										Cyanides					
			Total Kjeldahl Nitrogen	Ammonia, Total (as N)	Bromide (Br)	Chloride (Cl)	Fluoride (F)	Nitrate (as N)	Nitrite (as N)	Orthophosphate-Dissolved (as P)	Phosphorus (P)-Total	Phosphorus Total Dissolved	Sulfate (SO ₄)	Cyanide, Total	Cyanide, Weak Acid Diss	Cyanide, Free	Cyanate	Thiocyanate
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2106738-4	FieldBlank	6/4/2018	-	-	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	-	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2132128-5	FieldBlank	7/17/2018	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2144782-4	FieldBlank	8/9/2018	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2156026-6	FieldBlank	8/28/2018	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2159605-6	FieldBlank	8/28/2018	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2160840-6	FieldBlank	9/7/2018	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	0.710
L2164448-6	FieldBlank	9/12/2018	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2188218-6	FieldBlank	10/26/2018	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	-	-	-	-	<0.50
L2203408-7	FieldBlank	11/27/2018	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2213246-5	FieldBlank	12/18/2018	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2227701-5	FieldBlank	1/30/2019	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2233329-5	FieldBlank	2/13/2019	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2244756-6	FieldBlank	3/13/2019	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2256054-7	FieldBlank	4/9/2019	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2269368-7	FieldBlank	5/4/2019	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.10
L2275791-3	FieldBlank	5/16/2019	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.10
L2277964-3	FieldBlank	5/21/2019	<0.050	<0.0050	<0.050	<0.50	<0.020	0.00960	0.00190	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.10
L2282975-5	FieldBlank	5/29/2019	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	0.120
L2285579-5	FieldBlank	6/3/2019	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	0.100
L2313851-7	FieldBlank	7/18/2019	<0.050	<0.0050	<0.050	<0.50	<0.020	0.0118	0.00130	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	0.180
L2325935-5	FieldBlank	8/7/2019	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2349445-6	FieldBlank	9/16/2019	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2371052-7	FieldBlank	10/22/2019	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2388381-8	FieldBlank	11/25/2019	0.0920	0.0182	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
VA19A0791-006	FieldBlank	12/17/2019	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
VA20A0960-006	FieldBlank	1/27/2020	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
VA20A2211-006	FieldBlank	2/20/2020	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
VA20A3580-004	FieldBlank	3/17/2020	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
VA20A4424-004	FieldBlank	4/2/2020	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
VA20A6114-003	FieldBlank	5/6/2020	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
VA20A6503-006	FieldBlank	5/13/2020	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
VA20A6869-007	FieldBlank	5/20/2020	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
VA20A7202-004	FieldBlank	5/26/2020	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
VA20A7367-006	FieldBlank	5/28/2020	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
VA20A7797-005	FieldBlank	6/3/2020	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
VA20B0021-005	FieldBlank	7/7/2020	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
VA20B2156-007	FieldBlank	8/5/2020	<0.050	0.00780	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
VA20B2426-003	FieldBlank	8/10/2020	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
VA20B3033-004	FieldBlank	8/17/2020	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
VA20B3860-005	FieldBlank	8/26/2020	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
VA20B4443-006	FieldBlank	9/2/2020	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
VA20B7828-005	FieldBlank	10/8/2020	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
VA20B9945-003	FieldBlank	11/2/2020	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
VA20C1415-003	FieldBlank	11/19/2020	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
X11.3641.	TravelBlank	3/30/2011	<0.08	<0.02	-	<0.1	0.0400	<0.005	<0.003	<0.003	-	<0.001	0.900	-	-	-	-	-

Appendix F: Water Quality Field and Travel Blanks, Blackwater Gold Project

Lab ID	Client Sample ID	Date	Anions and Nutrients										Cyanides					
			Total Kjeldahl Nitrogen	Ammonia, Total (as N)	Bromide (Br)	Chloride (Cl)	Fluoride (F)	Nitrate (as N)	Nitrite (as N)	Orthophosphate-Dissolved (as P)	Phosphorus (P)-Total	Phosphorus Total Dissolved	Sulfate (SO ₄)	Cyanide, Total	Cyanide, Weak Acid Diss	Cyanide, Free	Cyanate	Thiocyanate
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L997464-10	TravelBlank	4/19/2011	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X11.4272.	TravelBlank	4/19/2011	<0.08	<0.02	-	0.200	0.0200	<0.005	<0.003	<0.003	-	<0.001	0.500	-	-	-	-	-
L1007174-15	TravelBlank	5/17/2011	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X11.5512.	TravelBlank	5/17/2011	<0.08	<0.02	-	<0.1	0.0200	<0.005	<0.003	<0.003	-	<0.001	1.20	-	-	-	-	-
L1009554-15	TravelBlank	5/26/2011	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X11.5872.	TravelBlank	5/27/2011	<0.08	0.0300	-	0.300	0.0200	<0.005	<0.003	<0.003	-	<0.001	1.20	-	-	-	-	-
X11.6102.	TravelBlank	5/30/2011	0.0800	<0.02	-	<0.1	0.0300	<0.005	<0.003	<0.003	-	<0.001	2.00	-	-	-	-	-
L1014653-15	TravelBlank	6/6/2011	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X11.6394.	TravelBlank	6/6/2011	<0.08	<0.02	-	0.200	0.0300	<0.005	<0.003	<0.003	-	<0.001	1.70	-	-	-	-	-
L1018027-16	TravelBlank	6/13/2011	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X11.6766.	TravelBlank	6/13/2011	<0.08	0.0200	-	0.100	<0.02	<0.005	<0.003	<0.003	-	<0.001	0.800	-	-	-	-	-
L1033697-14	TravelBlank	7/18/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.50
L1033953-16	TravelBlank	7/18/2011	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X11.9203.	TravelBlank	7/18/2011	<0.08	0.0300	-	0.200	0.0300	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1046189-16	TravelBlank	8/15/2011	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X11.10881.	TravelBlank	8/15/2011	<0.08	<0.02	-	<0.1	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1061327-16	TravelBlank	9/19/2011	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X11.13831.	TravelBlank	9/19/2011	<0.08	<0.02	-	<0.1	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1073886-16	TravelBlank	10/17/2011	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X11.16744.	TravelBlank	10/17/2011	<0.08	<0.02	-	<0.1	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1085601-16	TravelBlank	11/14/2011	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X11.19511.	TravelBlank	11/14/2011	<0.08	<0.01	-	0.100	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1096214-6	TravelBlank	12/13/2011	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X11.21065.	TravelBlank	12/13/2011	<0.08	<0.02	-	<0.1	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
X12.1360.	TravelBlank	1/12/2012	<0.08	<0.02	-	<0.1	<0.02	<0.005	0.00400	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1105609-10	TravelBlank	1/19/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.50
L1114156-8	TravelBlank	2/13/2012	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X12.1774.	TravelBlank	2/13/2012	<0.08	<0.01	-	0.100	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1124156-14	TravelBlank	3/3/2012	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X12.2569.	TravelBlank	3/12/2012	<0.08	<0.02	-	<0.1	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1136250-12	TravelBlank	4/17/2012	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X12.3457.	TravelBlank	4/17/2012	<0.08	<0.02	-	<0.1	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1136681-2	TravelBlank	4/20/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.50
L1136681-2	TravelBlank	4/25/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.20	-
L1148378-9	TravelBlank	5/14/2012	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X12.4671.	TravelBlank	5/14/2012	<0.08	<0.02	-	<0.1	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1150853-11	TravelBlank	5/22/2012	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X12.4926.	TravelBlank	5/22/2012	<0.08	<0.02	-	0.600	0.0300	<0.005	<0.003	0.0160	-	<0.001	<0.5	-	-	-	-	-
X12.5343.	TravelBlank	5/28/2012	<0.08	0.0300	-	0.800	<0.02	0.0100	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1154508-16	TravelBlank	5/30/2012	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X12.5799.	TravelBlank	6/4/2012	<0.08	<0.02	-	0.300	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1158839-16	TravelBlank	6/7/2012	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X12.6093.	TravelBlank	6/11/2012	<0.08	<0.02	-	<0.1	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1161703-16	TravelBlank	6/12/2012	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
L1165411-15	TravelBlank	6/16/2012	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-

Appendix F: Water Quality Field and Travel Blanks, Blackwater Gold Project

Lab ID	Client Sample ID	Date	Anions and Nutrients										Cyanides					
			Total Kjeldahl Nitrogen	Ammonia, Total (as N)	Bromide (Br)	Chloride (Cl)	Fluoride (F)	Nitrate (as N)	Nitrite (as N)	Orthophosphate-Dissolved (as P)	Phosphorus (P)-Total	Phosphorus Total Dissolved	Sulfate (SO ₄)	Cyanide, Total	Cyanide, Weak Acid Diss	Cyanide, Free	Cyanate	Thiocyanate
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
X12.6476.	TravelBlank	6/18/2012	<0.08	<0.02	-	<0.1	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1169894-15	TravelBlank	6/25/2012	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X12.6899.	TravelBlank	6/25/2012	<0.08	<0.02	-	<0.1	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1180296-15	TravelBlank	7/16/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.20	<0.50
X12.8106.	TravelBlank	7/16/2012	<0.08	<0.02	-	0.100	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1180440-16	TravelBlank	7/18/2012	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
L1194631-16	TravelBlank	8/13/2012	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X12.9629.	TravelBlank	8/13/2012	<0.08	<0.02	-	<0.1	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
X12.11285.	TravelBlank	9/12/2012	<0.08	<0.02	-	<0.1	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1211510-16	TravelBlank	9/17/2012	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X12.11626.	TravelBlank	9/17/2012	<0.08	<0.02	-	<0.1	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
X12.14643.	TravelBlank	10/15/2012	<0.08	<0.02	-	<0.1	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1224463-10	TravelBlank	10/16/2012	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
L1238081-9	TravelBlank	11/12/2012	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X12.16750.	TravelBlank	11/12/2012	<0.08	<0.02	-	<0.1	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1249297-11	TravelBlank	12/10/2012	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X12.18159.	TravelBlank	12/10/2012	<0.08	<0.02	-	<0.1	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
X13.1302.	TravelBlank	1/13/2013	<0.08	<0.02	-	<0.1	<0.02	0.0100	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1259237-7	TravelBlank	1/15/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.20	<0.50
L1263408-5	TravelBlank	1/28/2013	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X13.1482.	TravelBlank	1/28/2013	<0.08	<0.02	-	<0.1	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1268429-14	TravelBlank	2/13/2013	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X13.1784.	TravelBlank	2/13/2013	<0.08	<0.02	-	0.200	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1279413-10	TravelBlank	3/11/2013	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X13.2409.	TravelBlank	3/11/2013	<0.08	<0.02	-	<0.1	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1291117-6	TravelBlank	4/16/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.2	<0.5
L1291332-16	TravelBlank	4/16/2013	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X13.3032.	TravelBlank	4/16/2013	<0.08	<0.02	-	<0.1	<0.02	0.00500	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1302195-19	TravelBlank	5/14/2013	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X13.4101.	TravelBlank	5/14/2013	<0.08	<0.02	-	0.100	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1306457-19	TravelBlank	5/22/2013	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X13.4509.	TravelBlank	5/22/2013	<0.08	<0.02	-	0.600	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1308302-19	TravelBlank	5/28/2013	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X13.4668.	TravelBlank	5/28/2013	<0.08	<0.02	-	0.100	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1312787-10	TravelBlank	6/6/2013	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X13.5064.	TravelBlank	6/6/2013	<0.08	<0.02	-	<0.1	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
X13.5363.	TravelBlank	6/10/2013	<0.08	<0.02	-	<0.1	<0.02	0.00900	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1315720-11	TravelBlank	6/12/2013	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
L1319271-11	TravelBlank	6/17/2013	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X13.5932.	TravelBlank	6/17/2013	<0.08	<0.02	-	<0.1	<0.02	<0.005	<0.003	<0.003	-	<0.001	<0.5	-	-	-	-	-
L1443351.11	TravelBlank	4/13/2014	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X14.3953.	TravelBlank	4/13/2014	<0.08	<0.02	-	<0.1	<0.02	<0.005	<0.003	<0.003	-	<0.010	<0.5	-	-	-	-	-
L1459347.4	TravelBlank	5/21/2014	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	<0.0020	<0.50	-	-	-	<0.20	-
L1480734.11	TravelBlank	7/2/2014	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X14.8161.	TravelBlank	7/2/2014	<0.08	<0.02	-	<0.1	0.0200	<0.005	<0.003	<0.003	-	<0.010	<0.5	-	-	-	-	-

Appendix F: Water Quality Field and Travel Blanks, Blackwater Gold Project

Lab ID	Client Sample ID	Date	Anions and Nutrients										Cyanides					
			Total Kjeldahl Nitrogen	Ammonia, Total (as N)	Bromide (Br)	Chloride (Cl)	Fluoride (F)	Nitrate (as N)	Nitrite (as N)	Orthophosphate-Dissolved (as P)	Phosphorus (P)-Total	Phosphorus Total Dissolved	Sulfate (SO ₄)	Cyanide, Total	Cyanide, Weak Acid Diss	Cyanide, Free	Cyanate	Thiocyanate
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1524229.11	TravelBlank	9/24/2014	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X14.13297.	TravelBlank	9/24/2014	<0.08	<0.02	-	<0.1	<0.02	<0.005	<0.003	<0.003	-	<0.010	<0.5	-	-	-	-	-
L1526062.3	TravelBlank	9/29/2014	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	<0.0020	<0.50	<0.0050	<0.0050	<0.0050	<0.20	<0.50
L1558493.8	TravelBlank	12/9/2014	-	-	-	-	-	-	-	-	-	-	-	<0.0050	<0.0050	-	-	-
X14.18000.	TravelBlank	12/9/2014	<0.08	<0.02	-	<0.1	0.0200	<0.005	<0.003	<0.003	-	<0.010	<0.5	-	-	-	-	-
L1748423.5	TravelBlank	3/23/2016	<0.050	0.00830	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	<0.0020	<0.30	<0.0050	<0.0050	<0.0050	<0.20	<0.50
L1764648.7	TravelBlank	5/3/2016	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	-
L1767107.7	TravelBlank	5/9/2016	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	-
L1770672.7	TravelBlank	5/16/2016	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	-
L1774541.7	TravelBlank	5/25/2016	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	-
L1780840.4	TravelBlank	6/7/2016	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	<0.0020	<0.30	<0.0050	<0.0050	<0.0050	-	<0.50
L1788643.7	TravelBlank	6/22/2016	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	-
L1808945.7	TravelBlank	8/3/2016	<0.050	0.00520	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	-
L1812856.7	TravelBlank	8/10/2016	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	-
L1815654.7	TravelBlank	8/16/2016	<0.050	<0.015	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	-
L1819041.5	TravelBlank	8/23/2016	<0.050	0.00550	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	-
L1823224.10	TravelBlank	8/31/2016	<0.050	0.00660	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	-
L1826303.9	TravelBlank	9/7/2016	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	-
L1829276.3	TravelBlank	9/13/2016	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	<0.0050	<0.20	<0.50
L1913006.1	TravelBlank	4/11/2017	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	-
L1925102.2	TravelBlank	5/9/2017	<0.050	0.00760	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L1928943.6	TravelBlank	5/17/2017	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L1932034.6	TravelBlank	5/24/2017	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	-
L1935151.6	TravelBlank	5/30/2017	<0.050	0.0190	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L1939712.6	TravelBlank	6/7/2017	<0.050	0.0126	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L1962414.7	TravelBlank	7/19/2017	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L1984944.11	TravelBlank	8/30/2017	<0.050	<0.020	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L1988190.5	TravelBlank	9/6/2017	<0.050	0.0441	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L1991279.5	TravelBlank	9/13/2017	0.0840	0.0664	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L1995655.6	TravelBlank	9/21/2017	0.113	0.0826	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L1999769.6	TravelBlank	9/28/2017	<0.050	0.0421	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2009845.8	TravelBlank	10/17/2017	0.0700	0.0703	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2020333.8	TravelBlank	11/7/2017	0.0870	0.0756	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2035356-5	TravelBlank	12/12/2017	0.0730	0.0497	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	-	<0.0020	<0.30	<0.0050	<0.0050	-	-	<0.50
L2049678-7	TravelBlank	1/24/2018	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	-	-	-	-	<0.50
L2057025-3	TravelBlank	2/13/2018	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2073898-4	TravelBlank	3/27/2018	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2081505-4	TravelBlank	4/16/2018	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2093061-5	TravelBlank	5/9/2018	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2097084-10	TravelBlank	5/16/2018	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2100419-5	TravelBlank	5/23/2018	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2102737-4	TravelBlank	5/28/2018	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2106738-5	TravelBlank	6/4/2018	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	-
L2132128-6	TravelBlank	7/17/2018	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2143640-5	TravelBlank	8/7/2018	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50

Appendix F: Water Quality Field and Travel Blanks, Blackwater Gold Project

Lab ID	Client Sample ID	Date	Anions and Nutrients										Cyanides					
			Total Kjeldahl Nitrogen	Ammonia, Total (as N)	Bromide (Br)	Chloride (Cl)	Fluoride (F)	Nitrate (as N)	Nitrite (as N)	Orthophosphate-Dissolved (as P)	Phosphorus (P)-Total	Phosphorus Total Dissolved	Sulfate (SO ₄)	Cyanide, Total	Cyanide, Weak Acid Diss	Cyanide, Free	Cyanate	Thiocyanate
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L2156026-5	TravelBlank	8/28/2018	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2159605-5	TravelBlank	9/4/2018	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2160840-5	TravelBlank	9/7/2018	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2164448-7	TravelBlank	9/12/2018	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2188218-7	TravelBlank	10/26/2018	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2203408-6	TravelBlank	11/27/2018	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2213246-6	TravelBlank	12/18/2018	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2227101-7	TravelBlank	1/29/2019	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	-
L2233329-7	TravelBlank	2/13/2019	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2245144-6	TravelBlank	3/14/2019	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2256054-6	TravelBlank	4/9/2019	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2269368-5	TravelBlank	5/4/2019	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.10
L2277964-2	TravelBlank	5/21/2019	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.10
L2282191-4	TravelBlank	5/28/2019	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.10
L2282975-7	TravelBlank	5/29/2019	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.10
L2286702-6	TravelBlank	6/4/2019	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.10
L2313851-6	TravelBlank	7/18/2019	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.10
L2329543-4	TravelBlank	8/13/2019	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	-	-	-	-	-
L2350223-5	TravelBlank	9/17/2019	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2372667-5	TravelBlank	10/23/2019	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
L2388381-7	TravelBlank	11/25/2019	0.108	0.0257	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
VA19A0791-007	TravelBlank	12/17/2019	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
VA20A1056-003	TravelBlank	1/28/2020	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
VA20A2211-007	TravelBlank	2/20/2020	<0.050	0.0115	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
VA20A3691-005	TravelBlank	3/18/2020	<0.050	0.00610	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
VA20A4555-006	TravelBlank	4/7/2020	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
VA20A6218-006	TravelBlank	5/7/2020	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
VA20A6574-004	TravelBlank	5/14/2020	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
VA20A6869-008	TravelBlank	5/20/2020	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
VA20A7797-006	TravelBlank	6/3/2020	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
VA20B0021-006	TravelBlank	7/7/2020	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	-
VA20B2212-004	TravelBlank	8/6/2020	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
VA20B2692-003	TravelBlank	8/12/2020	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
VA20B3264-003	TravelBlank	8/19/2020	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
VA20B3860-004	TravelBlank	8/26/2020	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
VA20B4443-007	TravelBlank	9/2/2020	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50
VA20B7828-006	TravelBlank	10/8/2020	<0.050	<0.0050	<0.050	<0.50	<0.020	<0.0050	<0.0010	<0.0010	<0.0020	-	<0.30	<0.0050	<0.0050	-	-	<0.50

Notes:
 "-" indicates parameter was not analyzed.
 "<" value is below the detection limit

Appendix F: Water Quality Field and Travel Blanks, Blackwater Gold Project

Lab ID	Client Sample ID	Date	Organic / Inorganic Carbon		Total Metals													
			Dissolved Organic Carbon	Total Organic Carbon	Aluminum (Al)-Total	Antimony (Sb)-Total	Arsenic (As)-Total	Barium (Ba)-Total	Beryllium (Be)-Total	Bismuth (Bi)-Total	Boron (B)-Total	Cadmium (Cd)-Total	Calcium (Ca)-Total	Chromium (Cr)-Total	Cobalt (Co)-Total	Copper (Cu)-Total	Iron (Fe)-Total	Lead (Pb)-Total
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
X11.3640.	FieldBlank	3/30/2011	<0.1	<0.1	<0.0025	<0.00005	<0.0002	<0.00005	<0.0001	-	0.00200	<0.000015	<0.5	<0.0005	<0.00005	<0.0001	<0.0001	<0.00005
L997464-9	FieldBlank	4/19/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.4271.	FieldBlank	4/19/2011	<0.1	<0.1	<0.003	<0.00005	<0.0002	<0.00005	<0.0001	-	0.00200	<0.000015	<0.5	<0.0005	<0.00005	<0.0001	<0.0001	<0.00005
L1007174-14	FieldBlank	5/17/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.5511.	FieldBlank	5/17/2011	0.100	0.200	<0.002	<0.00005	<0.0001	0.000110	<0.0001	-	0.00300	<0.000015	<0.5	<0.0003	<0.00002	0.000400	<0.0001	<0.00005
L1009554-14	FieldBlank	5/25/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.5871.	FieldBlank	5/25/2011	<0.1	0.100	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00300	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	0.000200	<0.00005
X11.6101.	FieldBlank	5/30/2011	<0.1	0.100	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00300	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	0.000300	<0.00005
L1014653-14	FieldBlank	6/6/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.6393.	FieldBlank	6/6/2011	0.100	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00100	<0.000015	<0.5	<0.0003	<0.00002	0.000100	<0.0001	<0.00005
L1018027-14	FieldBlank	6/13/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L1018027-15	FieldBlank	6/13/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.6765.	FieldBlank	6/13/2011	0.200	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00300	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1033697-13	FieldBlank	7/18/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L1033953-15	FieldBlank	7/18/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.9202.	FieldBlank	7/18/2011	0.200	0.200	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00500	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1046189-15	FieldBlank	8/15/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.10880.	FieldBlank	8/15/2011	<0.1	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00600	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1061327-15	FieldBlank	9/19/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.13830.	FieldBlank	9/19/2011	0.200	0.100	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00700	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1073886-15	FieldBlank	10/17/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.16743.	FieldBlank	10/17/2011	0.200	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00300	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	0.000500	<0.00005
L1085601-15	FieldBlank	11/14/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.19510.	FieldBlank	11/14/2011	0.500	0.600	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00100	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	0.00120	<0.00005
L1096214-5	FieldBlank	12/13/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.21064.	FieldBlank	12/13/2011	0.600	0.600	<0.002	<0.00005	<0.0001	0.0000700	<0.0001	-	0.00100	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
X12.1359.	FieldBlank	1/12/2012	0.500	0.500	0.00200	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1105609-9	FieldBlank	1/19/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L1114156-9	FieldBlank	2/13/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.1775.	FieldBlank	2/13/2012	0.200	0.200	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1124156-15	FieldBlank	3/3/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.2570.	FieldBlank	3/12/2012	0.400	0.500	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1136250-11	FieldBlank	4/17/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.3456.	FieldBlank	4/17/2012	0.200	0.200	0.00300	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	0.00344
L1136681-1	FieldBlank	4/20/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L1136681-1	FieldBlank	4/25/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L1149027-7	FieldBlank	5/15/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.4684.	FieldBlank	5/15/2012	0.100	0.100	<0.002	<0.00005	<0.0001	0.000140	<0.0001	-	<0.001	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1150853-10	FieldBlank	5/22/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.4925.	FieldBlank	5/22/2012	<0.1	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
X12.5342.	FieldBlank	5/28/2012	0.100	0.100	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1154508-15	FieldBlank	5/30/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.5798.	FieldBlank	6/4/2012	0.400	0.500	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1158839-15	FieldBlank	6/7/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.6092.	FieldBlank	6/11/2012	<0.1	<0.1	0.0580	<0.00005	0.000400	0.00706	<0.0001	-	<0.001	<0.000015	15.9	<0.0003	0.0000200	0.000400	0.133	<0.00005

Appendix F: Water Quality Field and Travel Blanks, Blackwater Gold Project

Lab ID	Client Sample ID	Date	Organic / Inorganic Carbon		Total Metals													
			Dissolved Organic Carbon	Total Organic Carbon	Aluminum (Al)-Total	Antimony (Sb)-Total	Arsenic (As)-Total	Barium (Ba)-Total	Beryllium (Be)-Total	Bismuth (Bi)-Total	Boron (B)-Total	Cadmium (Cd)-Total	Calcium (Ca)-Total	Chromium (Cr)-Total	Cobalt (Co)-Total	Copper (Cu)-Total	Iron (Fe)-Total	Lead (Pb)-Total
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1161703-15	FieldBlank	6/12/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L1165411-14	FieldBlank	6/16/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.6475.	FieldBlank	6/18/2012	0.200	0.200	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00300	<0.00015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1169894-14	FieldBlank	6/25/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.6898.	FieldBlank	6/25/2012	<0.1	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.00015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1180296-14	FieldBlank	7/16/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.8105.	FieldBlank	7/16/2012	<0.1	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.00015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1180440-15	FieldBlank	7/18/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L1194631-15	FieldBlank	8/13/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.9628.	FieldBlank	8/13/2012	<0.1	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00100	<0.00015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
X12.11284.	FieldBlank	9/12/2012	0.200	0.300	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.00015	<0.5	<0.0003	<0.00002	<0.0001	0.000200	<0.00005
L1211510-15	FieldBlank	9/17/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.11625.	FieldBlank	9/17/2012	0.400	0.400	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00200	<0.00015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1224463-18	FieldBlank	10/16/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L1224796-8	FieldBlank	10/16/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.14768.	FieldBlank	10/16/2012	0.100	0.100	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.00015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1238081-8	FieldBlank	11/12/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.16749.	FieldBlank	11/12/2012	0.900	0.900	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.00015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1249297-10	FieldBlank	12/10/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.18158.	FieldBlank	12/10/2012	<0.1	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.00015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1259237-6	FieldBlank	1/15/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.1312.	FieldBlank	1/15/2013	<0.1	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.00015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1265945-3	FieldBlank	2/4/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.1614.	FieldBlank	2/4/2013	<0.1	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00200	<0.00015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1268429-13	FieldBlank	2/13/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.1783.	FieldBlank	2/13/2013	<0.1	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.00015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1279413-16	FieldBlank	3/12/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.2415.	FieldBlank	3/12/2013	<0.1	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.00015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1291117-5	FieldBlank	4/16/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L1291332-15	FieldBlank	4/16/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.3031.	FieldBlank	4/16/2013	<0.1	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00200	<0.00015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1302195-18	FieldBlank	5/14/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.4100.	FieldBlank	5/14/2013	<0.1	0.200	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.00015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1306457-8	FieldBlank	5/21/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.4448.	FieldBlank	5/21/2013	0.200	0.200	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.00015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1308302-18	FieldBlank	5/28/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.4667.	FieldBlank	5/28/2013	0.200	0.200	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.00015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1312787-19	FieldBlank	6/4/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.5073.	FieldBlank	6/4/2013	<0.1	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.00015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
X13.5371.	FieldBlank	6/11/2013	<0.1	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.00015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1315720-19	FieldBlank	6/12/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L1319271-10	FieldBlank	6/17/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.5931.	FieldBlank	6/17/2013	0.300	0.300	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.00015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1443919.7	FieldBlank	4/15/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X14.3974.	FieldBlank	4/15/2014	<0.1	-	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.00015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005

Appendix F: Water Quality Field and Travel Blanks, Blackwater Gold Project

Lab ID	Client Sample ID	Date	Organic / Inorganic Carbon		Total Metals													
			Dissolved Organic Carbon	Total Organic Carbon	Aluminum (Al)-Total	Antimony (Sb)-Total	Arsenic (As)-Total	Barium (Ba)-Total	Beryllium (Be)-Total	Bismuth (Bi)-Total	Boron (B)-Total	Cadmium (Cd)-Total	Calcium (Ca)-Total	Chromium (Cr)-Total	Cobalt (Co)-Total	Copper (Cu)-Total	Iron (Fe)-Total	Lead (Pb)-Total
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L997464-10	TravelBlank	4/19/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.4272.	TravelBlank	4/19/2011	<0.1	<0.1	<0.003	<0.00005	<0.0002	<0.00005	<0.0001	-	0.00200	<0.000015	<0.5	<0.0005	<0.00005	<0.0001	<0.0001	<0.00005
L1007174-15	TravelBlank	5/17/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.5512.	TravelBlank	5/17/2011	<0.1	0.100	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00300	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1009554-15	TravelBlank	5/26/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.5872.	TravelBlank	5/27/2011	<0.1	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00300	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
X11.6102.	TravelBlank	5/30/2011	<0.1	0.100	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00300	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	0.000300	<0.00005
L1014653-15	TravelBlank	6/6/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.6394.	TravelBlank	6/6/2011	0.100	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00100	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1018027-16	TravelBlank	6/13/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.6766.	TravelBlank	6/13/2011	<0.1	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00300	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1033697-14	TravelBlank	7/18/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L1033953-16	TravelBlank	7/18/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.9203.	TravelBlank	7/18/2011	<0.1	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00500	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1046189-16	TravelBlank	8/15/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.10881.	TravelBlank	8/15/2011	<0.1	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00600	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1061327-16	TravelBlank	9/19/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.13831.	TravelBlank	9/19/2011	<0.1	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00800	<0.000015	<0.5	<0.0003	0.0000300	<0.0001	<0.0001	<0.00005
L1073886-16	TravelBlank	10/17/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.16744.	TravelBlank	10/17/2011	<0.1	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00300	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	0.000200	<0.00005
L1085601-16	TravelBlank	11/14/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.19511.	TravelBlank	11/14/2011	0.100	0.300	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00100	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1096214-6	TravelBlank	12/13/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.21065.	TravelBlank	12/13/2011	<0.1	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00100	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	0.000200	<0.00005
X12.1360.	TravelBlank	1/12/2012	<0.1	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	0.00150	<0.00005
L1105609-10	TravelBlank	1/19/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L1114156-8	TravelBlank	2/13/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.1774.	TravelBlank	2/13/2012	0.400	0.400	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1124156-14	TravelBlank	3/3/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.2569.	TravelBlank	3/12/2012	<0.1	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1136250-12	TravelBlank	4/17/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.3457.	TravelBlank	4/17/2012	<0.1	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1136681-2	TravelBlank	4/20/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L1136681-2	TravelBlank	4/25/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L1148378-9	TravelBlank	5/14/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.4671.	TravelBlank	5/14/2012	0.100	0.100	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1150853-11	TravelBlank	5/22/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.4926.	TravelBlank	5/22/2012	<0.1	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
X12.5343.	TravelBlank	5/28/2012	<0.1	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1154508-16	TravelBlank	5/30/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.5799.	TravelBlank	6/4/2012	<0.1	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1158839-16	TravelBlank	6/7/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.6093.	TravelBlank	6/11/2012	<0.1	<0.1	<0.002	<0.00005	<0.0001	0.000140	<0.0001	-	0.00200	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1161703-16	TravelBlank	6/12/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L1165411-15	TravelBlank	6/16/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Appendix F: Water Quality Field and Travel Blanks, Blackwater Gold Project

Lab ID	Client Sample ID	Date	Organic / Inorganic Carbon		Total Metals													
			Dissolved Organic Carbon	Total Organic Carbon	Aluminum (Al)-Total	Antimony (Sb)-Total	Arsenic (As)-Total	Barium (Ba)-Total	Beryllium (Be)-Total	Bismuth (Bi)-Total	Boron (B)-Total	Cadmium (Cd)-Total	Calcium (Ca)-Total	Chromium (Cr)-Total	Cobalt (Co)-Total	Copper (Cu)-Total	Iron (Fe)-Total	Lead (Pb)-Total
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
X12.6476.	TravelBlank	6/18/2012	<0.1	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00300	0.0000280	<0.5	<0.0003	0.0000500	<0.0001	<0.0001	<0.00005
L1169894-15	TravelBlank	6/25/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.6899.	TravelBlank	6/25/2012	<0.1	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1180296-15	TravelBlank	7/16/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.8106.	TravelBlank	7/16/2012	<0.1	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1180440-16	TravelBlank	7/18/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L1194631-16	TravelBlank	8/13/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.9629.	TravelBlank	8/13/2012	0.100	0.100	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00200	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
X12.11285.	TravelBlank	9/12/2012	0.100	0.100	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1211510-16	TravelBlank	9/17/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.11626.	TravelBlank	9/17/2012	0.100	0.100	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00200	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
X12.14643.	TravelBlank	10/15/2012	<0.1	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1224463-10	TravelBlank	10/16/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L1238081-9	TravelBlank	11/12/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.16750.	TravelBlank	11/12/2012	<0.1	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1249297-11	TravelBlank	12/10/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.18159.	TravelBlank	12/10/2012	<0.1	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
X13.1302.	TravelBlank	1/13/2013	<0.1	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1259237-7	TravelBlank	1/15/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L1263408-5	TravelBlank	1/28/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.1482.	TravelBlank	1/28/2013	<0.1	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1268429-14	TravelBlank	2/13/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.1784.	TravelBlank	2/13/2013	<0.1	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1279413-10	TravelBlank	3/11/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.2409.	TravelBlank	3/11/2013	<0.1	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1291117-6	TravelBlank	4/16/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L1291332-16	TravelBlank	4/16/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.3032.	TravelBlank	4/16/2013	<0.1	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00200	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1302195-19	TravelBlank	5/14/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.4101.	TravelBlank	5/14/2013	<0.1	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1306457-19	TravelBlank	5/22/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.4509.	TravelBlank	5/22/2013	<0.1	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1308302-19	TravelBlank	5/28/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.4668.	TravelBlank	5/28/2013	0.200	0.200	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1312787-10	TravelBlank	6/6/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.5064.	TravelBlank	6/6/2013	<0.1	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
X13.5363.	TravelBlank	6/10/2013	<0.1	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1315720-11	TravelBlank	6/12/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L1319271-11	TravelBlank	6/17/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.5932.	TravelBlank	6/17/2013	<0.1	<0.1	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1443351.11	TravelBlank	4/13/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X14.3953.	TravelBlank	4/13/2014	<0.1	-	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005
L1459347.4	TravelBlank	5/21/2014	-	<0.50	<0.0030	<0.00010	<0.00010	<0.000050	<0.00010	<0.00050	<0.010	<0.000010	<0.050	<0.00010	<0.00010	<0.00050	<0.010	<0.000050
L1480734.11	TravelBlank	7/2/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X14.8161.	TravelBlank	7/2/2014	<0.1	-	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005

Appendix F: Water Quality Field and Travel Blanks, Blackwater Gold Project

Lab ID	Client Sample ID	Date	Total Metals (cont'd)														
			Lithium (Li)-Total	Magnesium (Mg)-Total	Manganese (Mn)-Total	Mercury (Hg)-Total	Molybdenum (Mo)-Total	Nickel (Ni)-Total	Phosphorus (P)-Total	Potassium (K)-Total	Selenium (Se)-Total	Silicon (Si)-Total	Silver (Ag)-Total	Sodium (Na)-Total	Strontium (Sr)-Total	Sulfur (S)-Total	Thallium (Tl)-Total
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
X11.3640.	FieldBlank	3/30/2011	<0.005	<0.50	<0.00005	<0.000008	<0.00005	<0.0001	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L997464-9	FieldBlank	4/19/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.4271.	FieldBlank	4/19/2011	<0.005	<0.50	<0.00005	<0.000008	<0.00005	<0.00010	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1007174-14	FieldBlank	5/17/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.5511.	FieldBlank	5/17/2011	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	0.0000510	-	<0.00005
L1009554-14	FieldBlank	5/25/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.5871.	FieldBlank	5/25/2011	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
X11.6101.	FieldBlank	5/30/2011	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1014653-14	FieldBlank	6/6/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.6393.	FieldBlank	6/6/2011	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1018027-14	FieldBlank	6/13/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L1018027-15	FieldBlank	6/13/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.6765.	FieldBlank	6/13/2011	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1033697-13	FieldBlank	7/18/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L1033953-15	FieldBlank	7/18/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.9202.	FieldBlank	7/18/2011	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1046189-15	FieldBlank	8/15/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.10880.	FieldBlank	8/15/2011	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1061327-15	FieldBlank	9/19/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.13830.	FieldBlank	9/19/2011	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1073886-15	FieldBlank	10/17/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.16743.	FieldBlank	10/17/2011	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1085601-15	FieldBlank	11/14/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.19510.	FieldBlank	11/14/2011	<0.001	<0.50	0.0000700	<0.000008	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	0.00000600	-	<0.00005
L1096214-5	FieldBlank	12/13/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.21064.	FieldBlank	12/13/2011	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
X12.1359.	FieldBlank	1/12/2012	<0.001	<0.50	0.0000700	<0.000008	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1105609-9	FieldBlank	1/19/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L1114156-9	FieldBlank	2/13/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.1775.	FieldBlank	2/13/2012	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1124156-15	FieldBlank	3/3/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.2570.	FieldBlank	3/12/2012	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1136250-11	FieldBlank	4/17/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.3456.	FieldBlank	4/17/2012	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1136681-1	FieldBlank	4/20/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L1136681-1	FieldBlank	4/25/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L1149027-7	FieldBlank	5/15/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.4684.	FieldBlank	5/15/2012	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1150853-10	FieldBlank	5/22/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.4925.	FieldBlank	5/22/2012	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
X12.5342.	FieldBlank	5/28/2012	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1154508-15	FieldBlank	5/30/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.5798.	FieldBlank	6/4/2012	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1158839-15	FieldBlank	6/7/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.6092.	FieldBlank	6/11/2012	<0.001	3.57	0.0216	<0.000005	0.000430	<0.00005	<0.02	0.600	<0.0006	4.61	<0.00005	2.90	0.0839	-	<0.00005

Appendix F: Water Quality Field and Travel Blanks, Blackwater Gold Project

Lab ID	Client Sample ID	Date	Total Metals (cont'd)														
			Lithium (Li)-Total	Magnesium (Mg)-Total	Manganese (Mn)-Total	Mercury (Hg)-Total	Molybdenum (Mo)-Total	Nickel (Ni)-Total	Phosphorus (P)-Total	Potassium (K)-Total	Selenium (Se)-Total	Silicon (Si)-Total	Silver (Ag)-Total	Sodium (Na)-Total	Strontium (Sr)-Total	Sulfur (S)-Total	Thallium (Tl)-Total
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1161703-15	FieldBlank	6/12/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
L1165411-14	FieldBlank	6/16/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X12.6475.	FieldBlank	6/18/2012	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	<0.00005	
L1169894-14	FieldBlank	6/25/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X12.6898.	FieldBlank	6/25/2012	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	<0.00005	
L1180296-14	FieldBlank	7/16/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X12.8105.	FieldBlank	7/16/2012	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	<0.00005	
L1180440-15	FieldBlank	7/18/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
L1194631-15	FieldBlank	8/13/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X12.9628.	FieldBlank	8/13/2012	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	<0.00005	
X12.11284.	FieldBlank	9/12/2012	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	<0.00005	
L1211510-15	FieldBlank	9/17/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X12.11625.	FieldBlank	9/17/2012	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	<0.00005	
L1224463-18	FieldBlank	10/16/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
L1224796-8	FieldBlank	10/16/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X12.14768.	FieldBlank	10/16/2012	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	<0.00005	
L1238081-8	FieldBlank	11/12/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X12.16749.	FieldBlank	11/12/2012	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	<0.00005	
L1249297-10	FieldBlank	12/10/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X12.18158.	FieldBlank	12/10/2012	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	<0.00005	
L1259237-6	FieldBlank	1/15/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X13.1312.	FieldBlank	1/15/2013	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	<0.00005	
L1265945-3	FieldBlank	2/4/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X13.1614.	FieldBlank	2/4/2013	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	<0.00005	
L1268429-13	FieldBlank	2/13/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X13.1783.	FieldBlank	2/13/2013	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	<0.00005	
L1279413-16	FieldBlank	3/12/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X13.2415.	FieldBlank	3/12/2013	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	<0.00005	
L1291117-5	FieldBlank	4/16/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
L1291332-15	FieldBlank	4/16/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X13.3031.	FieldBlank	4/16/2013	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01	<0.5	<0.0001	<0.01	<0.00005	<0.5	<0.000005	<0.00005	
L1302195-18	FieldBlank	5/14/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X13.4100.	FieldBlank	5/14/2013	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01	<0.5	<0.0001	<0.01	<0.00005	<0.5	<0.000005	<0.00005	
L1306457-8	FieldBlank	5/21/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X13.4448.	FieldBlank	5/21/2013	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01	<0.5	<0.0001	<0.01	<0.00005	<0.5	<0.000005	<0.00005	
L1308302-18	FieldBlank	5/28/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X13.4667.	FieldBlank	5/28/2013	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01	<0.5	<0.0001	<0.01	<0.00005	<0.5	<0.000005	<0.00005	
L1312787-19	FieldBlank	6/4/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X13.5073.	FieldBlank	6/4/2013	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01	<0.5	<0.0001	<0.01	<0.00005	<0.5	<0.000005	<0.00005	
X13.5371.	FieldBlank	6/11/2013	<0.001	<0.50	<0.00005	<0.000005	<0.000005	<0.00005	<0.01	<0.5	<0.0001	<0.01	<0.00005	<0.5	<0.000005	<0.00005	
L1315720-19	FieldBlank	6/12/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
L1319271-10	FieldBlank	6/17/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X13.5931.	FieldBlank	6/17/2013	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01	<0.5	<0.0001	<0.01	<0.00005	<0.5	<0.000005	<0.00005	
L1443919.7	FieldBlank	4/15/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X14.3974.	FieldBlank	4/15/2014	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01	<0.5	<0.0001	<0.01	<0.00005	<0.5	<0.000005	<0.00005	

Appendix F: Water Quality Field and Travel Blanks, Blackwater Gold Project

Lab ID	Client Sample ID	Date	Total Metals (cont'd)														
			Lithium (Li)-Total	Magnesium (Mg)-Total	Manganese (Mn)-Total	Mercury (Hg)-Total	Molybdenum (Mo)-Total	Nickel (Ni)-Total	Phosphorus (P)-Total	Potassium (K)-Total	Selenium (Se)-Total	Silicon (Si)-Total	Silver (Ag)-Total	Sodium (Na)-Total	Strontium (Sr)-Total	Sulfur (S)-Total	Thallium (Tl)-Total
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L997464-10	TravelBlank	4/19/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X11.4272.	TravelBlank	4/19/2011	<0.005	<0.50	<0.00005	<0.000008	<0.00005	<0.00010	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1007174-15	TravelBlank	5/17/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X11.5512.	TravelBlank	5/17/2011	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1009554-15	TravelBlank	5/26/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X11.5872.	TravelBlank	5/27/2011	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
X11.6102.	TravelBlank	5/30/2011	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1014653-15	TravelBlank	6/6/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X11.6394.	TravelBlank	6/6/2011	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1018027-16	TravelBlank	6/13/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X11.6766.	TravelBlank	6/13/2011	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1033697-14	TravelBlank	7/18/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
L1033953-16	TravelBlank	7/18/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X11.9203.	TravelBlank	7/18/2011	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1046189-16	TravelBlank	8/15/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X11.10881.	TravelBlank	8/15/2011	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1061327-16	TravelBlank	9/19/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X11.13831.	TravelBlank	9/19/2011	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1073886-16	TravelBlank	10/17/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X11.16744.	TravelBlank	10/17/2011	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1085601-16	TravelBlank	11/14/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X11.19511.	TravelBlank	11/14/2011	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1096214-6	TravelBlank	12/13/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X11.21065.	TravelBlank	12/13/2011	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
X12.1360.	TravelBlank	1/12/2012	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1105609-10	TravelBlank	1/19/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
L1114156-8	TravelBlank	2/13/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X12.1774.	TravelBlank	2/13/2012	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.02	<0.5	<0.0006	0.0200	<0.00005	<0.5	0	-	<0.00005
L1124156-14	TravelBlank	3/3/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X12.2569.	TravelBlank	3/12/2012	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1136250-12	TravelBlank	4/17/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X12.3457.	TravelBlank	4/17/2012	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1136681-2	TravelBlank	4/20/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
L1136681-2	TravelBlank	4/25/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
L1148378-9	TravelBlank	5/14/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X12.4671.	TravelBlank	5/14/2012	<0.001	<0.50	<0.00005	<0.000005	<0.000005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1150853-11	TravelBlank	5/22/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X12.4926.	TravelBlank	5/22/2012	<0.001	<0.50	<0.00005	<0.000005	<0.000005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
X12.5343.	TravelBlank	5/28/2012	<0.001	<0.50	<0.00005	<0.000005	<0.000005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1154508-16	TravelBlank	5/30/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X12.5799.	TravelBlank	6/4/2012	<0.001	<0.50	<0.00005	<0.000005	<0.000005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1158839-16	TravelBlank	6/7/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X12.6093.	TravelBlank	6/11/2012	<0.001	<0.50	<0.00005	<0.000005	<0.000005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1161703-16	TravelBlank	6/12/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
L1165411-15	TravelBlank	6/16/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Appendix F: Water Quality Field and Travel Blanks, Blackwater Gold Project

Lab ID	Client Sample ID	Date	Total Metals (cont'd)														
			Lithium (Li)-Total	Magnesium (Mg)-Total	Manganese (Mn)-Total	Mercury (Hg)-Total	Molybdenum (Mo)-Total	Nickel (Ni)-Total	Phosphorus (P)-Total	Potassium (K)-Total	Selenium (Se)-Total	Silicon (Si)-Total	Silver (Ag)-Total	Sodium (Na)-Total	Strontium (Sr)-Total	Sulfur (S)-Total	Thallium (Tl)-Total
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
X12.6476.	TravelBlank	6/18/2012	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1169894-15	TravelBlank	6/25/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.6899.	TravelBlank	6/25/2012	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1180296-15	TravelBlank	7/16/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.8106.	TravelBlank	7/16/2012	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1180440-16	TravelBlank	7/18/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L1194631-16	TravelBlank	8/13/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.9629.	TravelBlank	8/13/2012	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	0.0000150	-	<0.00005
X12.11285.	TravelBlank	9/12/2012	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1211510-16	TravelBlank	9/17/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.11626.	TravelBlank	9/17/2012	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
X12.14643.	TravelBlank	10/15/2012	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1224463-10	TravelBlank	10/16/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L1238081-9	TravelBlank	11/12/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.16750.	TravelBlank	11/12/2012	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1249297-11	TravelBlank	12/10/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.18159.	TravelBlank	12/10/2012	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
X13.1302.	TravelBlank	1/13/2013	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1259237-7	TravelBlank	1/15/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L1263408-5	TravelBlank	1/28/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.1482.	TravelBlank	1/28/2013	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1268429-14	TravelBlank	2/13/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.1784.	TravelBlank	2/13/2013	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.02	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1279413-10	TravelBlank	3/11/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.2409.	TravelBlank	3/11/2013	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1291117-6	TravelBlank	4/16/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L1291332-16	TravelBlank	4/16/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.3032.	TravelBlank	4/16/2013	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01	<0.5	<0.0001	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1302195-19	TravelBlank	5/14/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.4101.	TravelBlank	5/14/2013	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01	<0.5	<0.0001	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1306457-19	TravelBlank	5/22/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.4509.	TravelBlank	5/22/2013	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01	<0.5	<0.0001	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1308302-19	TravelBlank	5/28/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.4668.	TravelBlank	5/28/2013	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01	<0.5	<0.0001	<0.01	<0.00005	<0.5	0.0000210	-	<0.00005
L1312787-10	TravelBlank	6/6/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.5064.	TravelBlank	6/6/2013	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01	<0.5	<0.0001	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
X13.5363.	TravelBlank	6/10/2013	<0.001	<0.50	<0.00005	<0.000005	<0.000005	<0.00005	<0.01	<0.5	<0.0001	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1315720-11	TravelBlank	6/12/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L1319271-11	TravelBlank	6/17/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.5932.	TravelBlank	6/17/2013	<0.001	<0.50	<0.00005	<0.000005	<0.000005	<0.00005	<0.01	<0.5	<0.0001	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1443351.11	TravelBlank	4/13/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X14.3953.	TravelBlank	4/13/2014	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01	<0.5	<0.0001	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005
L1459347.4	TravelBlank	5/21/2014	<0.0005	<0.10	<0.00005	<0.00001	<0.000050	<0.00050	<0.05	<0.10	<0.0001	<0.050	<0.000010	<0.050	<0.00020	<0.50	<0.000010
L1480734.11	TravelBlank	7/2/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X14.8161.	TravelBlank	7/2/2014	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01	<0.5	<0.0001	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005

Appendix F: Water Quality Field and Travel Blanks, Blackwater Gold Project

Lab ID	Client Sample ID	Date	Total Metals (cont'd)					Dissolved Metals									
			Tin (Sn)-Total	Titanium (Ti)-Total	Uranium (U)-Total	Vanadium (V)-Total	Zinc (Zn)-Total	Aluminum (Al)-Dissolved	Antimony (Sb)-Dissolved	Arsenic (As)-Dissolved	Barium (Ba)-Dissolved	Beryllium (Be)-Dissolved	Bismuth (Bi)-Dissolved	Boron (B)-Dissolved	Cadmium (Cd)-Dissolved	Calcium (Ca)-Dissolved	
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
X11.3640.	FieldBlank	3/30/2011	<0.0001	<0.0002	<0.00005	<0.0001	<0.001	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L997464-9	FieldBlank	4/19/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X11.4271.	FieldBlank	4/19/2011	<0.0001	<0.0002	<0.00005	<0.0001	<0.0010	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1007174-14	FieldBlank	5/17/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X11.5511.	FieldBlank	5/17/2011	<0.0001	<0.0002	<0.00005	<0.0001	0.00120	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1009554-14	FieldBlank	5/25/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X11.5871.	FieldBlank	5/25/2011	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	-	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00400	<0.000015	<0.5	
X11.6101.	FieldBlank	5/30/2011	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00400	<0.000015	<0.5	
L1014653-14	FieldBlank	6/6/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X11.6393.	FieldBlank	6/6/2011	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00200	<0.000015	<0.5	
L1018027-14	FieldBlank	6/13/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
L1018027-15	FieldBlank	6/13/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X11.6765.	FieldBlank	6/13/2011	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00300	<0.000015	<0.5	
L1033697-13	FieldBlank	7/18/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
L1033953-15	FieldBlank	7/18/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X11.9202.	FieldBlank	7/18/2011	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00500	<0.000015	<0.5	
L1046189-15	FieldBlank	8/15/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X11.10880.	FieldBlank	8/15/2011	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00400	<0.000015	<0.5	
L1061327-15	FieldBlank	9/19/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X11.13830.	FieldBlank	9/19/2011	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00100	<0.000015	<0.5	
L1073886-15	FieldBlank	10/17/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X11.16743.	FieldBlank	10/17/2011	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00300	<0.000015	<0.5	
L1085601-15	FieldBlank	11/14/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X11.19510.	FieldBlank	11/14/2011	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00200	<0.000015	<0.5	
L1096214-5	FieldBlank	12/13/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X11.21064.	FieldBlank	12/13/2011	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00200	<0.000015	<0.5	
X12.1359.	FieldBlank	1/12/2012	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1105609-9	FieldBlank	1/19/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
L1114156-9	FieldBlank	2/13/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X12.1775.	FieldBlank	2/13/2012	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1124156-15	FieldBlank	3/3/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X12.2570.	FieldBlank	3/12/2012	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1136250-11	FieldBlank	4/17/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X12.3456.	FieldBlank	4/17/2012	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1136681-1	FieldBlank	4/20/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
L1136681-1	FieldBlank	4/25/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
L1149027-7	FieldBlank	5/15/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X12.4684.	FieldBlank	5/15/2012	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1150853-10	FieldBlank	5/22/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X12.4925.	FieldBlank	5/22/2012	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
X12.5342.	FieldBlank	5/28/2012	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1154508-15	FieldBlank	5/30/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X12.5798.	FieldBlank	6/4/2012	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1158839-15	FieldBlank	6/7/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X12.6092.	FieldBlank	6/11/2012	<0.0001	0.00160	0.0000800	0.000200	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00200	<0.000015	<0.5	

Appendix F: Water Quality Field and Travel Blanks, Blackwater Gold Project

Lab ID	Client Sample ID	Date	Total Metals (cont'd)					Dissolved Metals									
			Tin (Sn)-Total	Titanium (Ti)-Total	Uranium (U)-Total	Vanadium (V)-Total	Zinc (Zn)-Total	Aluminum (Al)-Dissolved	Antimony (Sb)-Dissolved	Arsenic (As)-Dissolved	Barium (Ba)-Dissolved	Beryllium (Be)-Dissolved	Bismuth (Bi)-Dissolved	Boron (B)-Dissolved	Cadmium (Cd)-Dissolved	Calcium (Ca)-Dissolved	
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
L1161703-15	FieldBlank	6/12/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
L1165411-14	FieldBlank	6/16/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X12.6475.	FieldBlank	6/18/2012	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00100	<0.000015	<0.5	
L1169894-14	FieldBlank	6/25/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X12.6898.	FieldBlank	6/25/2012	<0.0001	<0.0002	<0.00005	<0.0001	0.000600	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1180296-14	FieldBlank	7/16/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X12.8105.	FieldBlank	7/16/2012	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1180440-15	FieldBlank	7/18/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
L1194631-15	FieldBlank	8/13/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X12.9628.	FieldBlank	8/13/2012	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
X12.11284.	FieldBlank	9/12/2012	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1211510-15	FieldBlank	9/17/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X12.11625.	FieldBlank	9/17/2012	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1224463-18	FieldBlank	10/16/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
L1224796-8	FieldBlank	10/16/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X12.14768.	FieldBlank	10/16/2012	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1238081-8	FieldBlank	11/12/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X12.16749.	FieldBlank	11/12/2012	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1249297-10	FieldBlank	12/10/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X12.18158.	FieldBlank	12/10/2012	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1259237-6	FieldBlank	1/15/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X13.1312.	FieldBlank	1/15/2013	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1265945-3	FieldBlank	2/4/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X13.1614.	FieldBlank	2/4/2013	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1268429-13	FieldBlank	2/13/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X13.1783.	FieldBlank	2/13/2013	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1279413-16	FieldBlank	3/12/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X13.2415.	FieldBlank	3/12/2013	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1291117-5	FieldBlank	4/16/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
L1291332-15	FieldBlank	4/16/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X13.3031.	FieldBlank	4/16/2013	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1302195-18	FieldBlank	5/14/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X13.4100.	FieldBlank	5/14/2013	<0.0001	<0.0002	<0.00005	<0.00005	0.000500	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1306457-8	FieldBlank	5/21/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X13.4448.	FieldBlank	5/21/2013	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1308302-18	FieldBlank	5/28/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X13.4667.	FieldBlank	5/28/2013	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1312787-19	FieldBlank	6/4/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X13.5073.	FieldBlank	6/4/2013	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
X13.5371.	FieldBlank	6/11/2013	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1315720-19	FieldBlank	6/12/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
L1319271-10	FieldBlank	6/17/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X13.5931.	FieldBlank	6/17/2013	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1443919.7	FieldBlank	4/15/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X14.3974.	FieldBlank	4/15/2014	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	

Appendix F: Water Quality Field and Travel Blanks, Blackwater Gold Project

Lab ID	Client Sample ID	Date	Total Metals (cont'd)					Dissolved Metals									
			Tin (Sn)-Total	Titanium (Ti)-Total	Uranium (U)-Total	Vanadium (V)-Total	Zinc (Zn)-Total	Aluminum (Al)-Dissolved	Antimony (Sb)-Dissolved	Arsenic (As)-Dissolved	Barium (Ba)-Dissolved	Beryllium (Be)-Dissolved	Bismuth (Bi)-Dissolved	Boron (B)-Dissolved	Cadmium (Cd)-Dissolved	Calcium (Ca)-Dissolved	
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
L997464-10	TravelBlank	4/19/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X11.4272.	TravelBlank	4/19/2011	<0.0001	<0.0002	<0.00005	<0.0001	<0.0010	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1007174-15	TravelBlank	5/17/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X11.5512.	TravelBlank	5/17/2011	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	0.0000700	<0.0001	0.000260	<0.0001	-	<0.001	<0.000015	<0.5	
L1009554-15	TravelBlank	5/26/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X11.5872.	TravelBlank	5/27/2011	<0.0001	<0.0002	<0.00005	<0.0001	0.000700	-	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00300	<0.000015	<0.5	
X11.6102.	TravelBlank	5/30/2011	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00400	<0.000015	<0.5	
L1014653-15	TravelBlank	6/6/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X11.6394.	TravelBlank	6/6/2011	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00200	<0.000015	<0.5	
L1018027-16	TravelBlank	6/13/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X11.6766.	TravelBlank	6/13/2011	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00300	<0.000015	<0.5	
L1033697-14	TravelBlank	7/18/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
L1033953-16	TravelBlank	7/18/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X11.9203.	TravelBlank	7/18/2011	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00500	<0.000015	<0.5	
L1046189-16	TravelBlank	8/15/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X11.10881.	TravelBlank	8/15/2011	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00400	<0.000015	<0.5	
L1061327-16	TravelBlank	9/19/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X11.13831.	TravelBlank	9/19/2011	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00600	<0.000015	<0.5	
L1073886-16	TravelBlank	10/17/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X11.16744.	TravelBlank	10/17/2011	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00300	<0.000015	<0.5	
L1085601-16	TravelBlank	11/14/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X11.19511.	TravelBlank	11/14/2011	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00200	<0.000015	<0.5	
L1096214-6	TravelBlank	12/13/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X11.21065.	TravelBlank	12/13/2011	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	0.00100	<0.000015	<0.5	
X12.1360.	TravelBlank	1/12/2012	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1105609-10	TravelBlank	1/19/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
L1114156-8	TravelBlank	2/13/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X12.1774.	TravelBlank	2/13/2012	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1124156-14	TravelBlank	3/3/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X12.2569.	TravelBlank	3/12/2012	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1136250-12	TravelBlank	4/17/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X12.3457.	TravelBlank	4/17/2012	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1136681-2	TravelBlank	4/20/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
L1136681-2	TravelBlank	4/25/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
L1148378-9	TravelBlank	5/14/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X12.4671.	TravelBlank	5/14/2012	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1150853-11	TravelBlank	5/22/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X12.4926.	TravelBlank	5/22/2012	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
X12.5343.	TravelBlank	5/28/2012	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1154508-16	TravelBlank	5/30/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X12.5799.	TravelBlank	6/4/2012	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1158839-16	TravelBlank	6/7/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X12.6093.	TravelBlank	6/11/2012	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1161703-16	TravelBlank	6/12/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
L1165411-15	TravelBlank	6/16/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Appendix F: Water Quality Field and Travel Blanks, Blackwater Gold Project

Lab ID	Client Sample ID	Date	Total Metals (cont'd)					Dissolved Metals									
			Tin (Sn)-Total	Titanium (Ti)-Total	Uranium (U)-Total	Vanadium (V)-Total	Zinc (Zn)-Total	Aluminum (Al)-Dissolved	Antimony (Sb)-Dissolved	Arsenic (As)-Dissolved	Barium (Ba)-Dissolved	Beryllium (Be)-Dissolved	Bismuth (Bi)-Dissolved	Boron (B)-Dissolved	Cadmium (Cd)-Dissolved	Calcium (Ca)-Dissolved	
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
X12.6476.	TravelBlank	6/18/2012	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1169894-15	TravelBlank	6/25/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X12.6899.	TravelBlank	6/25/2012	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1180296-15	TravelBlank	7/16/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X12.8106.	TravelBlank	7/16/2012	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1180440-16	TravelBlank	7/18/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
L1194631-16	TravelBlank	8/13/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X12.9629.	TravelBlank	8/13/2012	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
X12.11285.	TravelBlank	9/12/2012	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1211510-16	TravelBlank	9/17/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X12.11626.	TravelBlank	9/17/2012	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
X12.14643.	TravelBlank	10/15/2012	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1224463-10	TravelBlank	10/16/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
L1238081-9	TravelBlank	11/12/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X12.16750.	TravelBlank	11/12/2012	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1249297-11	TravelBlank	12/10/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X12.18159.	TravelBlank	12/10/2012	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
X13.1302.	TravelBlank	1/13/2013	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1259237-7	TravelBlank	1/15/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
L1263408-5	TravelBlank	1/28/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X13.1482.	TravelBlank	1/28/2013	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1268429-14	TravelBlank	2/13/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X13.1784.	TravelBlank	2/13/2013	<0.0001	<0.0002	<0.00005	<0.0001	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1279413-10	TravelBlank	3/11/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X13.2409.	TravelBlank	3/11/2013	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1291117-6	TravelBlank	4/16/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
L1291332-16	TravelBlank	4/16/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X13.3032.	TravelBlank	4/16/2013	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1302195-19	TravelBlank	5/14/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X13.4101.	TravelBlank	5/14/2013	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1306457-19	TravelBlank	5/22/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X13.4509.	TravelBlank	5/22/2013	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1308302-19	TravelBlank	5/28/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X13.4668.	TravelBlank	5/28/2013	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1312787-10	TravelBlank	6/6/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X13.5064.	TravelBlank	6/6/2013	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
X13.5363.	TravelBlank	6/10/2013	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1315720-11	TravelBlank	6/12/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
L1319271-11	TravelBlank	6/17/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X13.5932.	TravelBlank	6/17/2013	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1443351.11	TravelBlank	4/13/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X14.3953.	TravelBlank	4/13/2014	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1459347.4	TravelBlank	5/21/2014	<0.00010	<0.010	<0.000010	<0.001	<0.0030	-	-	-	-	-	-	-	-	-	
L1480734.11	TravelBlank	7/2/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X14.8161.	TravelBlank	7/2/2014	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	

Appendix F: Water Quality Field and Travel Blanks, Blackwater Gold Project

Lab ID	Client Sample ID	Date	Total Metals (cont'd)					Dissolved Metals									
			Tin (Sn)-Total	Titanium (Ti)-Total	Uranium (U)-Total	Vanadium (V)-Total	Zinc (Zn)-Total	Aluminum (Al)-Dissolved	Antimony (Sb)-Dissolved	Arsenic (As)-Dissolved	Barium (Ba)-Dissolved	Beryllium (Be)-Dissolved	Bismuth (Bi)-Dissolved	Boron (B)-Dissolved	Cadmium (Cd)-Dissolved	Calcium (Ca)-Dissolved	
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
L1524229.11	TravelBlank	9/24/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X14.13297.	TravelBlank	9/24/2014	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1526062.3	TravelBlank	9/29/2014	<0.00010	<0.010	<0.000010	<0.001	<0.0030	-	-	-	-	-	-	-	-	-	
L1558493.8	TravelBlank	12/9/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X14.18000.	TravelBlank	12/9/2014	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005	<0.002	<0.00005	<0.0001	<0.00005	<0.0001	-	<0.001	<0.000015	<0.5	
L1748423.5	TravelBlank	3/23/2016	<0.00010	<0.00030	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L1764648.7	TravelBlank	5/3/2016	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L1767107.7	TravelBlank	5/9/2016	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L1770672.7	TravelBlank	5/16/2016	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L1774541.7	TravelBlank	5/25/2016	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L1780840.4	TravelBlank	6/7/2016	<0.00010	<0.00030	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L1788643.7	TravelBlank	6/22/2016	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L1808945.7	TravelBlank	8/3/2016	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L1812856.7	TravelBlank	8/10/2016	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L1815654.7	TravelBlank	8/16/2016	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L1819041.5	TravelBlank	8/23/2016	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L1823224.10	TravelBlank	8/31/2016	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L1826303.9	TravelBlank	9/7/2016	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L1829276.3	TravelBlank	9/13/2016	<0.00010	<0.00030	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L1913006.1	TravelBlank	4/11/2017	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L1925102.2	TravelBlank	5/9/2017	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L1928943.6	TravelBlank	5/17/2017	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L1932034.6	TravelBlank	5/24/2017	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L1935151.6	TravelBlank	5/30/2017	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L1939712.6	TravelBlank	6/7/2017	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L1962414.7	TravelBlank	7/19/2017	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L1984944.11	TravelBlank	8/30/2017	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L1988190.5	TravelBlank	9/6/2017	<0.00010	<0.010	<0.000010	<0.00050	0.00400	-	-	-	-	-	-	-	-	-	
L1991279.5	TravelBlank	9/13/2017	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L1995655.6	TravelBlank	9/21/2017	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L1999769.6	TravelBlank	9/28/2017	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L2009845.8	TravelBlank	10/17/2017	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L2020333.8	TravelBlank	11/7/2017	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L2035356-5	TravelBlank	12/12/2017	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L2049678-7	TravelBlank	1/24/2018	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L2057025-3	TravelBlank	2/13/2018	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L2073898-4	TravelBlank	3/27/2018	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L2081505-4	TravelBlank	4/16/2018	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L2093061-5	TravelBlank	5/9/2018	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L2097084-10	TravelBlank	5/16/2018	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L2100419-5	TravelBlank	5/23/2018	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L2102737-4	TravelBlank	5/28/2018	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L2106738-5	TravelBlank	6/4/2018	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L2132128-6	TravelBlank	7/17/2018	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L2143640-5	TravelBlank	8/7/2018	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	

Appendix F: Water Quality Field and Travel Blanks, Blackwater Gold Project

Lab ID	Client Sample ID	Date	Total Metals (cont'd)					Dissolved Metals									
			Tin (Sn)-Total	Titanium (Ti)-Total	Uranium (U)-Total	Vanadium (V)-Total	Zinc (Zn)-Total	Aluminum (Al)-Dissolved	Antimony (Sb)-Dissolved	Arsenic (As)-Dissolved	Barium (Ba)-Dissolved	Beryllium (Be)-Dissolved	Bismuth (Bi)-Dissolved	Boron (B)-Dissolved	Cadmium (Cd)-Dissolved	Calcium (Ca)-Dissolved	
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
L2156026-5	TravelBlank	8/28/2018	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L2159605-5	TravelBlank	9/4/2018	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L2160840-5	TravelBlank	9/7/2018	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L2164448-7	TravelBlank	9/12/2018	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L2188218-7	TravelBlank	10/26/2018	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L2203408-6	TravelBlank	11/27/2018	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L2213246-6	TravelBlank	12/18/2018	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L2227101-7	TravelBlank	1/29/2019	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L2233329-7	TravelBlank	2/13/2019	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L2245144-6	TravelBlank	3/14/2019	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L2256054-6	TravelBlank	4/9/2019	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L2269368-5	TravelBlank	5/4/2019	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L2277964-2	TravelBlank	5/21/2019	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L2282191-4	TravelBlank	5/28/2019	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L2282975-7	TravelBlank	5/29/2019	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L2286702-6	TravelBlank	6/4/2019	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L2313851-6	TravelBlank	7/18/2019	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L2329543-4	TravelBlank	8/13/2019	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L2350223-5	TravelBlank	9/17/2019	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L2372667-5	TravelBlank	10/23/2019	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
L2388381-7	TravelBlank	11/25/2019	<0.00010	<0.010	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
VA19A0791-007	TravelBlank	12/17/2019	<0.00010	<0.00030	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
VA20A1056-003	TravelBlank	1/28/2020	<0.00010	<0.00030	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
VA20A2211-007	TravelBlank	2/20/2020	<0.00010	<0.00030	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
VA20A3691-005	TravelBlank	3/18/2020	<0.00010	<0.00030	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
VA20A4555-006	TravelBlank	4/7/2020	<0.00010	<0.00030	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
VA20A6218-006	TravelBlank	5/7/2020	<0.00010	<0.00030	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
VA20A6574-004	TravelBlank	5/14/2020	<0.00010	<0.00030	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
VA20A6869-008	TravelBlank	5/20/2020	<0.00010	<0.00030	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
VA20A7797-006	TravelBlank	6/3/2020	<0.00010	<0.00030	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
VA20B0021-006	TravelBlank	7/7/2020	<0.00010	<0.00030	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
VA20B2212-004	TravelBlank	8/6/2020	<0.00010	<0.00030	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
VA20B2692-003	TravelBlank	8/12/2020	<0.00010	<0.00030	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
VA20B3264-003	TravelBlank	8/19/2020	<0.00010	<0.00030	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
VA20B3860-004	TravelBlank	8/26/2020	<0.00010	<0.00030	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
VA20B4443-007	TravelBlank	9/2/2020	<0.00010	<0.00030	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	
VA20B7828-006	TravelBlank	10/8/2020	<0.00010	<0.00030	<0.000010	<0.00050	<0.0030	-	-	-	-	-	-	-	-	-	

Notes:
 "-" indicates parameter was not analyzed.
 "<" value is below the detection limit

Appendix F: Water Quality Field and Travel Blanks, Blackwater Gold Project

Lab ID	Client Sample ID	Date	Dissolved Metals (cont'd)											
			Chromium (Cr)-Dissolved	Cobalt (Co)-Dissolved	Copper (Cu)-Dissolved	Iron (Fe)-Dissolved	Lead (Pb)-Dissolved	Lithium (Li)-Dissolved	Magnesium (Mg)-Dissolved	Manganese (Mn)-Dissolved	Mercury (Hg)-Dissolved	Molybdenum (Mo)-Dissolved	Nickel (Ni)-Dissolved	Phosphorus (P)-Dissolved
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
X11.3640.	FieldBlank	3/30/2011	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.01
L997464-9	FieldBlank	4/19/2011	-	-	-	-	-	-	-	-	-	-	-	-
X11.4271.	FieldBlank	4/19/2011	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.01
L1007174-14	FieldBlank	5/17/2011	-	-	-	-	-	-	-	-	-	-	-	-
X11.5511.	FieldBlank	5/17/2011	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.01
L1009554-14	FieldBlank	5/25/2011	-	-	-	-	-	-	-	-	-	-	-	-
X11.5871.	FieldBlank	5/25/2011	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.01
X11.6101.	FieldBlank	5/30/2011	<0.0003	<0.00002	<0.0001	0.000200	<0.00005	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.01
L1014653-14	FieldBlank	6/6/2011	-	-	-	-	-	-	-	-	-	-	-	-
X11.6393.	FieldBlank	6/6/2011	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.01
L1018027-14	FieldBlank	6/13/2011	-	-	-	-	-	-	-	-	-	-	-	-
L1018027-15	FieldBlank	6/13/2011	-	-	-	-	-	-	-	-	-	-	-	-
X11.6765.	FieldBlank	6/13/2011	<0.0003	<0.00002	0.000200	0.000500	<0.00005	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.01
L1033697-13	FieldBlank	7/18/2011	-	-	-	-	-	-	-	-	-	-	-	-
L1033953-15	FieldBlank	7/18/2011	-	-	-	-	-	-	-	-	-	-	-	-
X11.9202.	FieldBlank	7/18/2011	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	0.0000700	<0.000008	<0.00005	0.0000600	<0.01
L1046189-15	FieldBlank	8/15/2011	-	-	-	-	-	-	-	-	-	-	-	-
X11.10880.	FieldBlank	8/15/2011	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.01
L1061327-15	FieldBlank	9/19/2011	-	-	-	-	-	-	-	-	-	-	-	-
X11.13830.	FieldBlank	9/19/2011	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.01
L1073886-15	FieldBlank	10/17/2011	-	-	-	-	-	-	-	-	-	-	-	-
X11.16743.	FieldBlank	10/17/2011	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.01
L1085601-15	FieldBlank	11/14/2011	-	-	-	-	-	-	-	-	-	-	-	-
X11.19510.	FieldBlank	11/14/2011	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.01
L1096214-5	FieldBlank	12/13/2011	-	-	-	-	-	-	-	-	-	-	-	-
X11.21064.	FieldBlank	12/13/2011	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.01
X12.1359.	FieldBlank	1/12/2012	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	0.0000700	<0.000008	<0.00005	<0.00005	<0.01
L1105609-9	FieldBlank	1/19/2012	-	-	-	-	-	-	-	-	-	-	-	-
L1114156-9	FieldBlank	2/13/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.1775.	FieldBlank	2/13/2012	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.01
L1124156-15	FieldBlank	3/3/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.2570.	FieldBlank	3/12/2012	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.01
L1136250-11	FieldBlank	4/17/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.3456.	FieldBlank	4/17/2012	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.01
L1136681-1	FieldBlank	4/20/2012	-	-	-	-	-	-	-	-	-	-	-	-
L1136681-1	FieldBlank	4/25/2012	-	-	-	-	-	-	-	-	-	-	-	-
L1149027-7	FieldBlank	5/15/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.4684.	FieldBlank	5/15/2012	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
L1150853-10	FieldBlank	5/22/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.4925.	FieldBlank	5/22/2012	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
X12.5342.	FieldBlank	5/28/2012	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
L1154508-15	FieldBlank	5/30/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.5798.	FieldBlank	6/4/2012	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
L1158839-15	FieldBlank	6/7/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.6092.	FieldBlank	6/11/2012	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01

Appendix F: Water Quality Field and Travel Blanks, Blackwater Gold Project

Lab ID	Client Sample ID	Date	Dissolved Metals (cont'd)											
			Chromium (Cr)-Dissolved	Cobalt (Co)-Dissolved	Copper (Cu)-Dissolved	Iron (Fe)-Dissolved	Lead (Pb)-Dissolved	Lithium (Li)-Dissolved	Magnesium (Mg)-Dissolved	Manganese (Mn)-Dissolved	Mercury (Hg)-Dissolved	Molybdenum (Mo)-Dissolved	Nickel (Ni)-Dissolved	Phosphorus (P)-Dissolved
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1161703-15	FieldBlank	6/12/2012	-	-	-	-	-	-	-	-	-	-	-	-
L1165411-14	FieldBlank	6/16/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.6475.	FieldBlank	6/18/2012	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
L1169894-14	FieldBlank	6/25/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.6898.	FieldBlank	6/25/2012	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
L1180296-14	FieldBlank	7/16/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.8105.	FieldBlank	7/16/2012	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
L1180440-15	FieldBlank	7/18/2012	-	-	-	-	-	-	-	-	-	-	-	-
L1194631-15	FieldBlank	8/13/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.9628.	FieldBlank	8/13/2012	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
X12.11284.	FieldBlank	9/12/2012	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
L1211510-15	FieldBlank	9/17/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.11625.	FieldBlank	9/17/2012	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
L1224463-18	FieldBlank	10/16/2012	-	-	-	-	-	-	-	-	-	-	-	-
L1224796-8	FieldBlank	10/16/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.14768.	FieldBlank	10/16/2012	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
L1238081-8	FieldBlank	11/12/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.16749.	FieldBlank	11/12/2012	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
L1249297-10	FieldBlank	12/10/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.18158.	FieldBlank	12/10/2012	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
L1259237-6	FieldBlank	1/15/2013	-	-	-	-	-	-	-	-	-	-	-	-
X13.1312.	FieldBlank	1/15/2013	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
L1265945-3	FieldBlank	2/4/2013	-	-	-	-	-	-	-	-	-	-	-	-
X13.1614.	FieldBlank	2/4/2013	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
L1268429-13	FieldBlank	2/13/2013	-	-	-	-	-	-	-	-	-	-	-	-
X13.1783.	FieldBlank	2/13/2013	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
L1279413-16	FieldBlank	3/12/2013	-	-	-	-	-	-	-	-	-	-	-	-
X13.2415.	FieldBlank	3/12/2013	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
L1291117-5	FieldBlank	4/16/2013	-	-	-	-	-	-	-	-	-	-	-	-
L1291332-15	FieldBlank	4/16/2013	-	-	-	-	-	-	-	-	-	-	-	-
X13.3031.	FieldBlank	4/16/2013	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
L1302195-18	FieldBlank	5/14/2013	-	-	-	-	-	-	-	-	-	-	-	-
X13.4100.	FieldBlank	5/14/2013	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
L1306457-8	FieldBlank	5/21/2013	-	-	-	-	-	-	-	-	-	-	-	-
X13.4448.	FieldBlank	5/21/2013	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
L1308302-18	FieldBlank	5/28/2013	-	-	-	-	-	-	-	-	-	-	-	-
X13.4667.	FieldBlank	5/28/2013	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
L1312787-19	FieldBlank	6/4/2013	-	-	-	-	-	-	-	-	-	-	-	-
X13.5073.	FieldBlank	6/4/2013	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
X13.5371.	FieldBlank	6/11/2013	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
L1315720-19	FieldBlank	6/12/2013	-	-	-	-	-	-	-	-	-	-	-	-
L1319271-10	FieldBlank	6/17/2013	-	-	-	-	-	-	-	-	-	-	-	-
X13.5931.	FieldBlank	6/17/2013	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
L1443919.7	FieldBlank	4/15/2014	-	-	-	-	-	-	-	-	-	-	-	-
X14.3974.	FieldBlank	4/15/2014	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01

Appendix F: Water Quality Field and Travel Blanks, Blackwater Gold Project

Lab ID	Client Sample ID	Date	Dissolved Metals (cont'd)											
			Chromium (Cr)-Dissolved	Cobalt (Co)-Dissolved	Copper (Cu)-Dissolved	Iron (Fe)-Dissolved	Lead (Pb)-Dissolved	Lithium (Li)-Dissolved	Magnesium (Mg)-Dissolved	Manganese (Mn)-Dissolved	Mercury (Hg)-Dissolved	Molybdenum (Mo)-Dissolved	Nickel (Ni)-Dissolved	Phosphorus (P)-Dissolved
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L997464-10	TravelBlank	4/19/2011	-	-	-	-	-	-	-	-	-	-	-	-
X11.4272.	TravelBlank	4/19/2011	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.01
L1007174-15	TravelBlank	5/17/2011	-	-	-	-	-	-	-	-	-	-	-	-
X11.5512.	TravelBlank	5/17/2011	<0.0003	<0.00002	<0.0001	<0.0001	0.0000900	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.01
L1009554-15	TravelBlank	5/26/2011	-	-	-	-	-	-	-	-	-	-	-	-
X11.5872.	TravelBlank	5/27/2011	<0.0003	<0.00002	0.000100	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.01
X11.6102.	TravelBlank	5/30/2011	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.01
L1014653-15	TravelBlank	6/6/2011	-	-	-	-	-	-	-	-	-	-	-	-
X11.6394.	TravelBlank	6/6/2011	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.01
L1018027-16	TravelBlank	6/13/2011	-	-	-	-	-	-	-	-	-	-	-	-
X11.6766.	TravelBlank	6/13/2011	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.01
L1033697-14	TravelBlank	7/18/2011	-	-	-	-	-	-	-	-	-	-	-	-
L1033953-16	TravelBlank	7/18/2011	-	-	-	-	-	-	-	-	-	-	-	-
X11.9203.	TravelBlank	7/18/2011	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.01
L1046189-16	TravelBlank	8/15/2011	-	-	-	-	-	-	-	-	-	-	-	-
X11.10881.	TravelBlank	8/15/2011	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.01
L1061327-16	TravelBlank	9/19/2011	-	-	-	-	-	-	-	-	-	-	-	-
X11.13831.	TravelBlank	9/19/2011	<0.0003	<0.00002	0.00110	<0.0001	0.0000900	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.01
L1073886-16	TravelBlank	10/17/2011	-	-	-	-	-	-	-	-	-	-	-	-
X11.16744.	TravelBlank	10/17/2011	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.01
L1085601-16	TravelBlank	11/14/2011	-	-	-	-	-	-	-	-	-	-	-	-
X11.19511.	TravelBlank	11/14/2011	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.01
L1096214-6	TravelBlank	12/13/2011	-	-	-	-	-	-	-	-	-	-	-	-
X11.21065.	TravelBlank	12/13/2011	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.01
X12.1360.	TravelBlank	1/12/2012	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.01
L1105609-10	TravelBlank	1/19/2012	-	-	-	-	-	-	-	-	-	-	-	-
L1114156-8	TravelBlank	2/13/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.1774.	TravelBlank	2/13/2012	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.01
L1124156-14	TravelBlank	3/3/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.2569.	TravelBlank	3/12/2012	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.01
L1136250-12	TravelBlank	4/17/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.3457.	TravelBlank	4/17/2012	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000008	<0.00005	<0.00005	<0.01
L1136681-2	TravelBlank	4/20/2012	-	-	-	-	-	-	-	-	-	-	-	-
L1136681-2	TravelBlank	4/25/2012	-	-	-	-	-	-	-	-	-	-	-	-
L1148378-9	TravelBlank	5/14/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.4671.	TravelBlank	5/14/2012	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
L1150853-11	TravelBlank	5/22/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.4926.	TravelBlank	5/22/2012	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
X12.5343.	TravelBlank	5/28/2012	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
L1154508-16	TravelBlank	5/30/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.5799.	TravelBlank	6/4/2012	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
L1158839-16	TravelBlank	6/7/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.6093.	TravelBlank	6/11/2012	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
L1161703-16	TravelBlank	6/12/2012	-	-	-	-	-	-	-	-	-	-	-	-
L1165411-15	TravelBlank	6/16/2012	-	-	-	-	-	-	-	-	-	-	-	-

Appendix F: Water Quality Field and Travel Blanks, Blackwater Gold Project

Lab ID	Client Sample ID	Date	Dissolved Metals (cont'd)											
			Chromium (Cr)-Dissolved	Cobalt (Co)-Dissolved	Copper (Cu)-Dissolved	Iron (Fe)-Dissolved	Lead (Pb)-Dissolved	Lithium (Li)-Dissolved	Magnesium (Mg)-Dissolved	Manganese (Mn)-Dissolved	Mercury (Hg)-Dissolved	Molybdenum (Mo)-Dissolved	Nickel (Ni)-Dissolved	Phosphorus (P)-Dissolved
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
X12.6476.	TravelBlank	6/18/2012	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
L1169894-15	TravelBlank	6/25/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.6899.	TravelBlank	6/25/2012	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
L1180296-15	TravelBlank	7/16/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.8106.	TravelBlank	7/16/2012	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
L1180440-16	TravelBlank	7/18/2012	-	-	-	-	-	-	-	-	-	-	-	-
L1194631-16	TravelBlank	8/13/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.9629.	TravelBlank	8/13/2012	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
X12.11285.	TravelBlank	9/12/2012	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
L1211510-16	TravelBlank	9/17/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.11626.	TravelBlank	9/17/2012	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
X12.14643.	TravelBlank	10/15/2012	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
L1224463-10	TravelBlank	10/16/2012	-	-	-	-	-	-	-	-	-	-	-	-
L1238081-9	TravelBlank	11/12/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.16750.	TravelBlank	11/12/2012	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
L1249297-11	TravelBlank	12/10/2012	-	-	-	-	-	-	-	-	-	-	-	-
X12.18159.	TravelBlank	12/10/2012	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
X13.1302.	TravelBlank	1/13/2013	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
L1259237-7	TravelBlank	1/15/2013	-	-	-	-	-	-	-	-	-	-	-	-
L1263408-5	TravelBlank	1/28/2013	-	-	-	-	-	-	-	-	-	-	-	-
X13.1482.	TravelBlank	1/28/2013	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
L1268429-14	TravelBlank	2/13/2013	-	-	-	-	-	-	-	-	-	-	-	-
X13.1784.	TravelBlank	2/13/2013	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
L1279413-10	TravelBlank	3/11/2013	-	-	-	-	-	-	-	-	-	-	-	-
X13.2409.	TravelBlank	3/11/2013	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
L1291117-6	TravelBlank	4/16/2013	-	-	-	-	-	-	-	-	-	-	-	-
L1291332-16	TravelBlank	4/16/2013	-	-	-	-	-	-	-	-	-	-	-	-
X13.3032.	TravelBlank	4/16/2013	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
L1302195-19	TravelBlank	5/14/2013	-	-	-	-	-	-	-	-	-	-	-	-
X13.4101.	TravelBlank	5/14/2013	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
L1306457-19	TravelBlank	5/22/2013	-	-	-	-	-	-	-	-	-	-	-	-
X13.4509.	TravelBlank	5/22/2013	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
L1308302-19	TravelBlank	5/28/2013	-	-	-	-	-	-	-	-	-	-	-	-
X13.4668.	TravelBlank	5/28/2013	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
L1312787-10	TravelBlank	6/6/2013	-	-	-	-	-	-	-	-	-	-	-	-
X13.5064.	TravelBlank	6/6/2013	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
X13.5363.	TravelBlank	6/10/2013	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
L1315720-11	TravelBlank	6/12/2013	-	-	-	-	-	-	-	-	-	-	-	-
L1319271-11	TravelBlank	6/17/2013	-	-	-	-	-	-	-	-	-	-	-	-
X13.5932.	TravelBlank	6/17/2013	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
L1443351.11	TravelBlank	4/13/2014	-	-	-	-	-	-	-	-	-	-	-	-
X14.3953.	TravelBlank	4/13/2014	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
L1459347.4	TravelBlank	5/21/2014	-	-	-	-	-	-	-	-	-	-	-	-
L1480734.11	TravelBlank	7/2/2014	-	-	-	-	-	-	-	-	-	-	-	-
X14.8161.	TravelBlank	7/2/2014	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01

Appendix F: Water Quality Field and Travel Blanks, Blackwater Gold Project

Lab ID	Client Sample ID	Date	Dissolved Metals (cont'd)											
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			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1524229.11	TravelBlank	9/24/2014	-	-	-	-	-	-	-	-	-	-	-	-
X14.13297.	TravelBlank	9/24/2014	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
L1526062.3	TravelBlank	9/29/2014	-	-	-	-	-	-	-	-	-	-	-	-
L1558493.8	TravelBlank	12/9/2014	-	-	-	-	-	-	-	-	-	-	-	-
X14.18000.	TravelBlank	12/9/2014	<0.0003	<0.00002	<0.0001	<0.0001	<0.00005	<0.001	<0.50	<0.00005	<0.000005	<0.00005	<0.00005	<0.01
L1748423.5	TravelBlank	3/23/2016	-	-	-	-	-	-	-	-	-	-	-	-
L1764648.7	TravelBlank	5/3/2016	-	-	-	-	-	-	-	-	-	-	-	-
L1767107.7	TravelBlank	5/9/2016	-	-	-	-	-	-	-	-	-	-	-	-
L1770672.7	TravelBlank	5/16/2016	-	-	-	-	-	-	-	-	-	-	-	-
L1774541.7	TravelBlank	5/25/2016	-	-	-	-	-	-	-	-	-	-	-	-
L1780840.4	TravelBlank	6/7/2016	-	-	-	-	-	-	-	-	-	-	-	-
L1788643.7	TravelBlank	6/22/2016	-	-	-	-	-	-	-	-	-	-	-	-
L1808945.7	TravelBlank	8/3/2016	-	-	-	-	-	-	-	-	-	-	-	-
L1812856.7	TravelBlank	8/10/2016	-	-	-	-	-	-	-	-	-	-	-	-
L1815654.7	TravelBlank	8/16/2016	-	-	-	-	-	-	-	-	-	-	-	-
L1819041.5	TravelBlank	8/23/2016	-	-	-	-	-	-	-	-	-	-	-	-
L1823224.10	TravelBlank	8/31/2016	-	-	-	-	-	-	-	-	-	-	-	-
L1826303.9	TravelBlank	9/7/2016	-	-	-	-	-	-	-	-	-	-	-	-
L1829276.3	TravelBlank	9/13/2016	-	-	-	-	-	-	-	-	-	-	-	-
L1913006.1	TravelBlank	4/11/2017	-	-	-	-	-	-	-	-	-	-	-	-
L1925102.2	TravelBlank	5/9/2017	-	-	-	-	-	-	-	-	-	-	-	-
L1928943.6	TravelBlank	5/17/2017	-	-	-	-	-	-	-	-	-	-	-	-
L1932034.6	TravelBlank	5/24/2017	-	-	-	-	-	-	-	-	-	-	-	-
L1935151.6	TravelBlank	5/30/2017	-	-	-	-	-	-	-	-	-	-	-	-
L1939712.6	TravelBlank	6/7/2017	-	-	-	-	-	-	-	-	-	-	-	-
L1962414.7	TravelBlank	7/19/2017	-	-	-	-	-	-	-	-	-	-	-	-
L1984944.11	TravelBlank	8/30/2017	-	-	-	-	-	-	-	-	-	-	-	-
L1988190.5	TravelBlank	9/6/2017	-	-	-	-	-	-	-	-	-	-	-	-
L1991279.5	TravelBlank	9/13/2017	-	-	-	-	-	-	-	-	-	-	-	-
L1995655.6	TravelBlank	9/21/2017	-	-	-	-	-	-	-	-	-	-	-	-
L1999769.6	TravelBlank	9/28/2017	-	-	-	-	-	-	-	-	-	-	-	-
L2009845.8	TravelBlank	10/17/2017	-	-	-	-	-	-	-	-	-	-	-	-
L2020333.8	TravelBlank	11/7/2017	-	-	-	-	-	-	-	-	-	-	-	-
L2035356-5	TravelBlank	12/12/2017	-	-	-	-	-	-	-	-	-	-	-	-
L2049678-7	TravelBlank	1/24/2018	-	-	-	-	-	-	-	-	-	-	-	-
L2057025-3	TravelBlank	2/13/2018	-	-	-	-	-	-	-	-	-	-	-	-
L2073898-4	TravelBlank	3/27/2018	-	-	-	-	-	-	-	-	-	-	-	-
L2081505-4	TravelBlank	4/16/2018	-	-	-	-	-	-	-	-	-	-	-	-
L2093061-5	TravelBlank	5/9/2018	-	-	-	-	-	-	-	-	-	-	-	-
L2097084-10	TravelBlank	5/16/2018	-	-	-	-	-	-	-	-	-	-	-	-
L2100419-5	TravelBlank	5/23/2018	-	-	-	-	-	-	-	-	-	-	-	-
L2102737-4	TravelBlank	5/28/2018	-	-	-	-	-	-	-	-	-	-	-	-
L2106738-5	TravelBlank	6/4/2018	-	-	-	-	-	-	-	-	-	-	-	-
L2132128-6	TravelBlank	7/17/2018	-	-	-	-	-	-	-	-	-	-	-	-
L2143640-5	TravelBlank	8/7/2018	-	-	-	-	-	-	-	-	-	-	-	-

Appendix F: Water Quality Field and Travel Blanks, Blackwater Gold Project

Lab ID	Client Sample ID	Date	Dissolved Metals (cont'd)												
			Chromium (Cr)-Dissolved	Cobalt (Co)-Dissolved	Copper (Cu)-Dissolved	Iron (Fe)-Dissolved	Lead (Pb)-Dissolved	Lithium (Li)-Dissolved	Magnesium (Mg)-Dissolved	Manganese (Mn)-Dissolved	Mercury (Hg)-Dissolved	Molybdenum (Mo)-Dissolved	Nickel (Ni)-Dissolved	Phosphorus (P)-Dissolved	
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
L2156026-5	TravelBlank	8/28/2018	-	-	-	-	-	-	-	-	-	-	-	-	-
L2159605-5	TravelBlank	9/4/2018	-	-	-	-	-	-	-	-	-	-	-	-	-
L2160840-5	TravelBlank	9/7/2018	-	-	-	-	-	-	-	-	-	-	-	-	-
L2164448-7	TravelBlank	9/12/2018	-	-	-	-	-	-	-	-	-	-	-	-	-
L2188218-7	TravelBlank	10/26/2018	-	-	-	-	-	-	-	-	-	-	-	-	-
L2203408-6	TravelBlank	11/27/2018	-	-	-	-	-	-	-	-	-	-	-	-	-
L2213246-6	TravelBlank	12/18/2018	-	-	-	-	-	-	-	-	-	-	-	-	-
L2227101-7	TravelBlank	1/29/2019	-	-	-	-	-	-	-	-	-	-	-	-	-
L2233329-7	TravelBlank	2/13/2019	-	-	-	-	-	-	-	-	-	-	-	-	-
L2245144-6	TravelBlank	3/14/2019	-	-	-	-	-	-	-	-	-	-	-	-	-
L2256054-6	TravelBlank	4/9/2019	-	-	-	-	-	-	-	-	-	-	-	-	-
L2269368-5	TravelBlank	5/4/2019	-	-	-	-	-	-	-	-	-	-	-	-	-
L2277964-2	TravelBlank	5/21/2019	-	-	-	-	-	-	-	-	-	-	-	-	-
L2282191-4	TravelBlank	5/28/2019	-	-	-	-	-	-	-	-	-	-	-	-	-
L2282975-7	TravelBlank	5/29/2019	-	-	-	-	-	-	-	-	-	-	-	-	-
L2286702-6	TravelBlank	6/4/2019	-	-	-	-	-	-	-	-	-	-	-	-	-
L2313851-6	TravelBlank	7/18/2019	-	-	-	-	-	-	-	-	-	-	-	-	-
L2329543-4	TravelBlank	8/13/2019	-	-	-	-	-	-	-	-	-	-	-	-	-
L2350223-5	TravelBlank	9/17/2019	-	-	-	-	-	-	-	-	-	-	-	-	-
L2372667-5	TravelBlank	10/23/2019	-	-	-	-	-	-	-	-	-	-	-	-	-
L2388381-7	TravelBlank	11/25/2019	-	-	-	-	-	-	-	-	-	-	-	-	-
VA19A0791-007	TravelBlank	12/17/2019	-	-	-	-	-	-	-	-	-	-	-	-	-
VA20A1056-003	TravelBlank	1/28/2020	-	-	-	-	-	-	-	-	-	-	-	-	-
VA20A2211-007	TravelBlank	2/20/2020	-	-	-	-	-	-	-	-	-	-	-	-	-
VA20A3691-005	TravelBlank	3/18/2020	-	-	-	-	-	-	-	-	-	-	-	-	-
VA20A4555-006	TravelBlank	4/7/2020	-	-	-	-	-	-	-	-	-	-	-	-	-
VA20A6218-006	TravelBlank	5/7/2020	-	-	-	-	-	-	-	-	-	-	-	-	-
VA20A6574-004	TravelBlank	5/14/2020	-	-	-	-	-	-	-	-	-	-	-	-	-
VA20A6869-008	TravelBlank	5/20/2020	-	-	-	-	-	-	-	-	-	-	-	-	-
VA20A7797-006	TravelBlank	6/3/2020	-	-	-	-	-	-	-	-	-	-	-	-	-
VA20B0021-006	TravelBlank	7/7/2020	-	-	-	-	-	-	-	-	-	-	-	-	-
VA20B2212-004	TravelBlank	8/6/2020	-	-	-	-	-	-	-	-	-	-	-	-	-
VA20B2692-003	TravelBlank	8/12/2020	-	-	-	-	-	-	-	-	-	-	-	-	-
VA20B3264-003	TravelBlank	8/19/2020	-	-	-	-	-	-	-	-	-	-	-	-	-
VA20B3860-004	TravelBlank	8/26/2020	-	-	-	-	-	-	-	-	-	-	-	-	-
VA20B4443-007	TravelBlank	9/2/2020	-	-	-	-	-	-	-	-	-	-	-	-	-
VA20B7828-006	TravelBlank	10/8/2020	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
 "-" indicates parameter was not analyzed.
 "<" value is below the detection limit

Appendix F: Water Quality Field and Travel Blanks, Blackwater Gold Project

Lab ID	Client Sample ID	Date	Dissolved Metals (cont'd)												
			Potassium (K)-Dissolved	Selenium (Se)-Dissolved	Silicon (Si)-Dissolved	Silver (Ag)-Dissolved	Sodium (Na)-Dissolved	Strontium (Sr)-Dissolved	Sulfur (S)-Dissolved	Thallium (Tl)-Dissolved	Tin (Sn)-Dissolved	Titanium (Ti)-Dissolved	Uranium (U)-Dissolved	Vanadium (V)-Dissolved	Zinc (Zn)-Dissolved
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
X11.3640.	FieldBlank	3/30/2011	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L997464-9	FieldBlank	4/19/2011	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.4271.	FieldBlank	4/19/2011	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1007174-14	FieldBlank	5/17/2011	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.5511.	FieldBlank	5/17/2011	<0.5	<0.0006	<0.01	<0.00005	<0.5	0.0000120	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1009554-14	FieldBlank	5/25/2011	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.5871.	FieldBlank	5/25/2011	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
X11.6101.	FieldBlank	5/30/2011	<0.5	<0.0006	<0.01	<0.00005	<0.5	0.0000470	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1014653-14	FieldBlank	6/6/2011	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.6393.	FieldBlank	6/6/2011	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1018027-14	FieldBlank	6/13/2011	-	-	-	-	-	-	-	-	-	-	-	-	-
L1018027-15	FieldBlank	6/13/2011	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.6765.	FieldBlank	6/13/2011	<0.5	<0.0006	<0.01	<0.00005	<0.5	0.0000170	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1033697-13	FieldBlank	7/18/2011	-	-	-	-	-	-	-	-	-	-	-	-	-
L1033953-15	FieldBlank	7/18/2011	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.9202.	FieldBlank	7/18/2011	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	0.00140
L1046189-15	FieldBlank	8/15/2011	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.10880.	FieldBlank	8/15/2011	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1061327-15	FieldBlank	9/19/2011	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.13830.	FieldBlank	9/19/2011	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1073886-15	FieldBlank	10/17/2011	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.16743.	FieldBlank	10/17/2011	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1085601-15	FieldBlank	11/14/2011	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.19510.	FieldBlank	11/14/2011	<0.5	<0.0006	<0.01	<0.00005	<0.5	0.0000520	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1096214-5	FieldBlank	12/13/2011	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.21064.	FieldBlank	12/13/2011	<0.5	<0.0006	0.0200	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
X12.1359.	FieldBlank	1/12/2012	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1105609-9	FieldBlank	1/19/2012	-	-	-	-	-	-	-	-	-	-	-	-	-
L1114156-9	FieldBlank	2/13/2012	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.1775.	FieldBlank	2/13/2012	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1124156-15	FieldBlank	3/3/2012	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.2570.	FieldBlank	3/12/2012	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1136250-11	FieldBlank	4/17/2012	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.3456.	FieldBlank	4/17/2012	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1136681-1	FieldBlank	4/20/2012	-	-	-	-	-	-	-	-	-	-	-	-	-
L1136681-1	FieldBlank	4/25/2012	-	-	-	-	-	-	-	-	-	-	-	-	-
L1149027-7	FieldBlank	5/15/2012	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.4684.	FieldBlank	5/15/2012	<0.5	<0.0006	<0.01	<0.00005	<0.5	0.00000700	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1150853-10	FieldBlank	5/22/2012	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.4925.	FieldBlank	5/22/2012	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
X12.5342.	FieldBlank	5/28/2012	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1154508-15	FieldBlank	5/30/2012	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.5798.	FieldBlank	6/4/2012	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1158839-15	FieldBlank	6/7/2012	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.6092.	FieldBlank	6/11/2012	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005

Appendix F: Water Quality Field and Travel Blanks, Blackwater Gold Project

Lab ID	Client Sample ID	Date	Dissolved Metals (cont'd)												
			Potassium (K)-Dissolved	Selenium (Se)-Dissolved	Silicon (Si)-Dissolved	Silver (Ag)-Dissolved	Sodium (Na)-Dissolved	Strontium (Sr)-Dissolved	Sulfur (S)-Dissolved	Thallium (Tl)-Dissolved	Tin (Sn)-Dissolved	Titanium (Ti)-Dissolved	Uranium (U)-Dissolved	Vanadium (V)-Dissolved	Zinc (Zn)-Dissolved
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1161703-15	FieldBlank	6/12/2012	-	-	-	-	-	-	-	-	-	-	-	-	-
L1165411-14	FieldBlank	6/16/2012	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.6475.	FieldBlank	6/18/2012	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1169894-14	FieldBlank	6/25/2012	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.6898.	FieldBlank	6/25/2012	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1180296-14	FieldBlank	7/16/2012	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.8105.	FieldBlank	7/16/2012	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1180440-15	FieldBlank	7/18/2012	-	-	-	-	-	-	-	-	-	-	-	-	-
L1194631-15	FieldBlank	8/13/2012	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.9628.	FieldBlank	8/13/2012	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
X12.11284.	FieldBlank	9/12/2012	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1211510-15	FieldBlank	9/17/2012	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.11625.	FieldBlank	9/17/2012	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1224463-18	FieldBlank	10/16/2012	-	-	-	-	-	-	-	-	-	-	-	-	-
L1224796-8	FieldBlank	10/16/2012	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.14768.	FieldBlank	10/16/2012	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1238081-8	FieldBlank	11/12/2012	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.16749.	FieldBlank	11/12/2012	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1249297-10	FieldBlank	12/10/2012	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.18158.	FieldBlank	12/10/2012	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1259237-6	FieldBlank	1/15/2013	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.1312.	FieldBlank	1/15/2013	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1265945-3	FieldBlank	2/4/2013	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.1614.	FieldBlank	2/4/2013	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1268429-13	FieldBlank	2/13/2013	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.1783.	FieldBlank	2/13/2013	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1279413-16	FieldBlank	3/12/2013	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.2415.	FieldBlank	3/12/2013	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1291117-5	FieldBlank	4/16/2013	-	-	-	-	-	-	-	-	-	-	-	-	-
L1291332-15	FieldBlank	4/16/2013	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.3031.	FieldBlank	4/16/2013	<0.5	<0.0001	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1302195-18	FieldBlank	5/14/2013	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.4100.	FieldBlank	5/14/2013	<0.5	<0.0001	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1306457-8	FieldBlank	5/21/2013	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.4448.	FieldBlank	5/21/2013	<0.5	<0.0001	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1308302-18	FieldBlank	5/28/2013	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.4667.	FieldBlank	5/28/2013	<0.5	<0.0001	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1312787-19	FieldBlank	6/4/2013	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.5073.	FieldBlank	6/4/2013	<0.5	<0.0001	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
X13.5371.	FieldBlank	6/11/2013	<0.5	<0.0001	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1315720-19	FieldBlank	6/12/2013	-	-	-	-	-	-	-	-	-	-	-	-	-
L1319271-10	FieldBlank	6/17/2013	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.5931.	FieldBlank	6/17/2013	<0.5	<0.0001	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1443919.7	FieldBlank	4/15/2014	-	-	-	-	-	-	-	-	-	-	-	-	-
X14.3974.	FieldBlank	4/15/2014	<0.5	<0.0001	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005

Appendix F: Water Quality Field and Travel Blanks, Blackwater Gold Project

Lab ID	Client Sample ID	Date	Dissolved Metals (cont'd)												
			Potassium (K)-Dissolved	Selenium (Se)-Dissolved	Silicon (Si)-Dissolved	Silver (Ag)-Dissolved	Sodium (Na)-Dissolved	Strontium (Sr)-Dissolved	Sulfur (S)-Dissolved	Thallium (Tl)-Dissolved	Tin (Sn)-Dissolved	Titanium (Ti)-Dissolved	Uranium (U)-Dissolved	Vanadium (V)-Dissolved	Zinc (Zn)-Dissolved
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L997464-10	TravelBlank	4/19/2011	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.4272.	TravelBlank	4/19/2011	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1007174-15	TravelBlank	5/17/2011	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.5512.	TravelBlank	5/17/2011	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	0.000130	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1009554-15	TravelBlank	5/26/2011	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.5872.	TravelBlank	5/27/2011	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
X11.6102.	TravelBlank	5/30/2011	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1014653-15	TravelBlank	6/6/2011	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.6394.	TravelBlank	6/6/2011	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1018027-16	TravelBlank	6/13/2011	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.6766.	TravelBlank	6/13/2011	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	0.000600
L1033697-14	TravelBlank	7/18/2011	-	-	-	-	-	-	-	-	-	-	-	-	-
L1033953-16	TravelBlank	7/18/2011	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.9203.	TravelBlank	7/18/2011	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	0.00120
L1046189-16	TravelBlank	8/15/2011	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.10881.	TravelBlank	8/15/2011	<0.5	<0.0006	<0.01	<0.00005	<0.5	0.00000600	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1061327-16	TravelBlank	9/19/2011	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.13831.	TravelBlank	9/19/2011	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	0.000200	<0.0002	<0.00005	<0.00005	0.00220
L1073886-16	TravelBlank	10/17/2011	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.16744.	TravelBlank	10/17/2011	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1085601-16	TravelBlank	11/14/2011	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.19511.	TravelBlank	11/14/2011	<0.5	<0.0006	<0.01	<0.00005	<0.5	0.0000340	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1096214-6	TravelBlank	12/13/2011	-	-	-	-	-	-	-	-	-	-	-	-	-
X11.21065.	TravelBlank	12/13/2011	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
X12.1360.	TravelBlank	1/12/2012	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1105609-10	TravelBlank	1/19/2012	-	-	-	-	-	-	-	-	-	-	-	-	-
L1114156-8	TravelBlank	2/13/2012	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.1774.	TravelBlank	2/13/2012	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1124156-14	TravelBlank	3/3/2012	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.2569.	TravelBlank	3/12/2012	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1136250-12	TravelBlank	4/17/2012	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.3457.	TravelBlank	4/17/2012	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1136681-2	TravelBlank	4/20/2012	-	-	-	-	-	-	-	-	-	-	-	-	-
L1136681-2	TravelBlank	4/25/2012	-	-	-	-	-	-	-	-	-	-	-	-	-
L1148378-9	TravelBlank	5/14/2012	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.4671.	TravelBlank	5/14/2012	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1150853-11	TravelBlank	5/22/2012	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.4926.	TravelBlank	5/22/2012	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
X12.5343.	TravelBlank	5/28/2012	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1154508-16	TravelBlank	5/30/2012	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.5799.	TravelBlank	6/4/2012	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1158839-16	TravelBlank	6/7/2012	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.6093.	TravelBlank	6/11/2012	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1161703-16	TravelBlank	6/12/2012	-	-	-	-	-	-	-	-	-	-	-	-	-
L1165411-15	TravelBlank	6/16/2012	-	-	-	-	-	-	-	-	-	-	-	-	-

Appendix F: Water Quality Field and Travel Blanks, Blackwater Gold Project

Lab ID	Client Sample ID	Date	Dissolved Metals (cont'd)												
			Potassium (K)-Dissolved	Selenium (Se)-Dissolved	Silicon (Si)-Dissolved	Silver (Ag)-Dissolved	Sodium (Na)-Dissolved	Strontium (Sr)-Dissolved	Sulfur (S)-Dissolved	Thallium (Tl)-Dissolved	Tin (Sn)-Dissolved	Titanium (Ti)-Dissolved	Uranium (U)-Dissolved	Vanadium (V)-Dissolved	Zinc (Zn)-Dissolved
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
X12.6476.	TravelBlank	6/18/2012	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1169894-15	TravelBlank	6/25/2012	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.6899.	TravelBlank	6/25/2012	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1180296-15	TravelBlank	7/16/2012	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.8106.	TravelBlank	7/16/2012	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1180440-16	TravelBlank	7/18/2012	-	-	-	-	-	-	-	-	-	-	-	-	-
L1194631-16	TravelBlank	8/13/2012	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.9629.	TravelBlank	8/13/2012	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
X12.11285.	TravelBlank	9/12/2012	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1211510-16	TravelBlank	9/17/2012	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.11626.	TravelBlank	9/17/2012	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
X12.14643.	TravelBlank	10/15/2012	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1224463-10	TravelBlank	10/16/2012	-	-	-	-	-	-	-	-	-	-	-	-	-
L1238081-9	TravelBlank	11/12/2012	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.16750.	TravelBlank	11/12/2012	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1249297-11	TravelBlank	12/10/2012	-	-	-	-	-	-	-	-	-	-	-	-	-
X12.18159.	TravelBlank	12/10/2012	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
X13.1302.	TravelBlank	1/13/2013	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1259237-7	TravelBlank	1/15/2013	-	-	-	-	-	-	-	-	-	-	-	-	-
L1263408-5	TravelBlank	1/28/2013	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.1482.	TravelBlank	1/28/2013	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1268429-14	TravelBlank	2/13/2013	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.1784.	TravelBlank	2/13/2013	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1279413-10	TravelBlank	3/11/2013	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.2409.	TravelBlank	3/11/2013	<0.5	<0.0006	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1291117-6	TravelBlank	4/16/2013	-	-	-	-	-	-	-	-	-	-	-	-	-
L1291332-16	TravelBlank	4/16/2013	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.3032.	TravelBlank	4/16/2013	<0.5	<0.0001	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1302195-19	TravelBlank	5/14/2013	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.4101.	TravelBlank	5/14/2013	<0.5	<0.0001	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1306457-19	TravelBlank	5/22/2013	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.4509.	TravelBlank	5/22/2013	<0.5	<0.0001	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1308302-19	TravelBlank	5/28/2013	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.4668.	TravelBlank	5/28/2013	<0.5	<0.0001	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1312787-10	TravelBlank	6/6/2013	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.5064.	TravelBlank	6/6/2013	<0.5	<0.0001	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
X13.5363.	TravelBlank	6/10/2013	<0.5	<0.0001	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1315720-11	TravelBlank	6/12/2013	-	-	-	-	-	-	-	-	-	-	-	-	-
L1319271-11	TravelBlank	6/17/2013	-	-	-	-	-	-	-	-	-	-	-	-	-
X13.5932.	TravelBlank	6/17/2013	<0.5	<0.0001	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1443351.11	TravelBlank	4/13/2014	-	-	-	-	-	-	-	-	-	-	-	-	-
X14.3953.	TravelBlank	4/13/2014	<0.5	<0.0001	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1459347.4	TravelBlank	5/21/2014	-	-	-	-	-	-	-	-	-	-	-	-	-
L1480734.11	TravelBlank	7/2/2014	-	-	-	-	-	-	-	-	-	-	-	-	-
X14.8161.	TravelBlank	7/2/2014	<0.5	<0.0001	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005

Appendix F: Water Quality Field and Travel Blanks, Blackwater Gold Project

Lab ID	Client Sample ID	Date	Dissolved Metals (cont'd)												
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			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
L1524229.11	TravelBlank	9/24/2014	-	-	-	-	-	-	-	-	-	-	-	-	-
X14.13297.	TravelBlank	9/24/2014	<0.5	<0.0001	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1526062.3	TravelBlank	9/29/2014	-	-	-	-	-	-	-	-	-	-	-	-	-
L1558493.8	TravelBlank	12/9/2014	-	-	-	-	-	-	-	-	-	-	-	-	-
X14.18000.	TravelBlank	12/9/2014	<0.5	<0.0001	<0.01	<0.00005	<0.5	<0.000005	-	<0.00005	<0.0001	<0.0002	<0.00005	<0.00005	<0.0005
L1748423.5	TravelBlank	3/23/2016	-	-	-	-	-	-	-	-	-	-	-	-	-
L1764648.7	TravelBlank	5/3/2016	-	-	-	-	-	-	-	-	-	-	-	-	-
L1767107.7	TravelBlank	5/9/2016	-	-	-	-	-	-	-	-	-	-	-	-	-
L1770672.7	TravelBlank	5/16/2016	-	-	-	-	-	-	-	-	-	-	-	-	-
L1774541.7	TravelBlank	5/25/2016	-	-	-	-	-	-	-	-	-	-	-	-	-
L1780840.4	TravelBlank	6/7/2016	-	-	-	-	-	-	-	-	-	-	-	-	-
L1788643.7	TravelBlank	6/22/2016	-	-	-	-	-	-	-	-	-	-	-	-	-
L1808945.7	TravelBlank	8/3/2016	-	-	-	-	-	-	-	-	-	-	-	-	-
L1812856.7	TravelBlank	8/10/2016	-	-	-	-	-	-	-	-	-	-	-	-	-
L1815654.7	TravelBlank	8/16/2016	-	-	-	-	-	-	-	-	-	-	-	-	-
L1819041.5	TravelBlank	8/23/2016	-	-	-	-	-	-	-	-	-	-	-	-	-
L1823224.10	TravelBlank	8/31/2016	-	-	-	-	-	-	-	-	-	-	-	-	-
L1826303.9	TravelBlank	9/7/2016	-	-	-	-	-	-	-	-	-	-	-	-	-
L1829276.3	TravelBlank	9/13/2016	-	-	-	-	-	-	-	-	-	-	-	-	-
L1913006.1	TravelBlank	4/11/2017	-	-	-	-	-	-	-	-	-	-	-	-	-
L1925102.2	TravelBlank	5/9/2017	-	-	-	-	-	-	-	-	-	-	-	-	-
L1928943.6	TravelBlank	5/17/2017	-	-	-	-	-	-	-	-	-	-	-	-	-
L1932034.6	TravelBlank	5/24/2017	-	-	-	-	-	-	-	-	-	-	-	-	-
L1935151.6	TravelBlank	5/30/2017	-	-	-	-	-	-	-	-	-	-	-	-	-
L1939712.6	TravelBlank	6/7/2017	-	-	-	-	-	-	-	-	-	-	-	-	-
L1962414.7	TravelBlank	7/19/2017	-	-	-	-	-	-	-	-	-	-	-	-	-
L1984944.11	TravelBlank	8/30/2017	-	-	-	-	-	-	-	-	-	-	-	-	-
L1988190.5	TravelBlank	9/6/2017	-	-	-	-	-	-	-	-	-	-	-	-	-
L1991279.5	TravelBlank	9/13/2017	-	-	-	-	-	-	-	-	-	-	-	-	-
L1995655.6	TravelBlank	9/21/2017	-	-	-	-	-	-	-	-	-	-	-	-	-
L1999769.6	TravelBlank	9/28/2017	-	-	-	-	-	-	-	-	-	-	-	-	-
L2009845.8	TravelBlank	10/17/2017	-	-	-	-	-	-	-	-	-	-	-	-	-
L2020333.8	TravelBlank	11/7/2017	-	-	-	-	-	-	-	-	-	-	-	-	-
L2035356-5	TravelBlank	12/12/2017	-	-	-	-	-	-	-	-	-	-	-	-	-
L2049678-7	TravelBlank	1/24/2018	-	-	-	-	-	-	-	-	-	-	-	-	-
L2057025-3	TravelBlank	2/13/2018	-	-	-	-	-	-	-	-	-	-	-	-	-
L2073898-4	TravelBlank	3/27/2018	-	-	-	-	-	-	-	-	-	-	-	-	-
L2081505-4	TravelBlank	4/16/2018	-	-	-	-	-	-	-	-	-	-	-	-	-
L2093061-5	TravelBlank	5/9/2018	-	-	-	-	-	-	-	-	-	-	-	-	-
L2097084-10	TravelBlank	5/16/2018	-	-	-	-	-	-	-	-	-	-	-	-	-
L2100419-5	TravelBlank	5/23/2018	-	-	-	-	-	-	-	-	-	-	-	-	-
L2102737-4	TravelBlank	5/28/2018	-	-	-	-	-	-	-	-	-	-	-	-	-
L2106738-5	TravelBlank	6/4/2018	-	-	-	-	-	-	-	-	-	-	-	-	-
L2132128-6	TravelBlank	7/17/2018	-	-	-	-	-	-	-	-	-	-	-	-	-
L2143640-5	TravelBlank	8/7/2018	-	-	-	-	-	-	-	-	-	-	-	-	-

Appendix F: Water Quality Field and Travel Blanks, Blackwater Gold Project

Lab ID	Client Sample ID	Date	Dissolved Metals (cont'd)													
			Potassium (K)-Dissolved	Selenium (Se)-Dissolved	Silicon (Si)-Dissolved	Silver (Ag)-Dissolved	Sodium (Na)-Dissolved	Strontium (Sr)-Dissolved	Sulfur (S)-Dissolved	Thallium (Tl)-Dissolved	Tin (Sn)-Dissolved	Titanium (Ti)-Dissolved	Uranium (U)-Dissolved	Vanadium (V)-Dissolved	Zinc (Zn)-Dissolved	
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
L2156026-5	TravelBlank	8/28/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L2159605-5	TravelBlank	9/4/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L2160840-5	TravelBlank	9/7/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L2164448-7	TravelBlank	9/12/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L2188218-7	TravelBlank	10/26/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L2203408-6	TravelBlank	11/27/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L2213246-6	TravelBlank	12/18/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L2227101-7	TravelBlank	1/29/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L2233329-7	TravelBlank	2/13/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L2245144-6	TravelBlank	3/14/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L2256054-6	TravelBlank	4/9/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L2269368-5	TravelBlank	5/4/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L2277964-2	TravelBlank	5/21/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L2282191-4	TravelBlank	5/28/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L2282975-7	TravelBlank	5/29/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L2286702-6	TravelBlank	6/4/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L2313851-6	TravelBlank	7/18/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L2329543-4	TravelBlank	8/13/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L2350223-5	TravelBlank	9/17/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L2372667-5	TravelBlank	10/23/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L2388381-7	TravelBlank	11/25/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VA19A0791-007	TravelBlank	12/17/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VA20A1056-003	TravelBlank	1/28/2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VA20A2211-007	TravelBlank	2/20/2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VA20A3691-005	TravelBlank	3/18/2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VA20A4555-006	TravelBlank	4/7/2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VA20A6218-006	TravelBlank	5/7/2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VA20A6574-004	TravelBlank	5/14/2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VA20A6869-008	TravelBlank	5/20/2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VA20A7797-006	TravelBlank	6/3/2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VA20B0021-006	TravelBlank	7/7/2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VA20B2212-004	TravelBlank	8/6/2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VA20B2692-003	TravelBlank	8/12/2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VA20B3264-003	TravelBlank	8/19/2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VA20B3860-004	TravelBlank	8/26/2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VA20B4443-007	TravelBlank	9/2/2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VA20B7828-006	TravelBlank	10/8/2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
 "-" indicates parameter was not analyzed.
 "<" value is below the detection limit

APPENDIX G RELATIVE PERCENT DIFFERENCE (RPD) RESULTS FOR STREAM WATER QUALITY DUPLICATES, BLACKWATER GOLD PROJECT

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	BI-09			BI-09			BI-09			BI-09			BI-13			BI-13		
Depth	Surface			Surface			Surface			Surface			Surface			Surface		
Date	4/16/2018			2/13/2019			7/18/2019			5/26/2020			5/25/2016			8/10/2016		
LabID	L2081505-1	L2081505-2		L2233329-4	L2233329-6		L2313851-1	L2313851-5		VA20A7202-002	VA20A7202-005		L1774541-6	L1774541-4		L1812856-6	L1812856-4	
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Physical Tests																		
pH	7.68	7.58	1.31	7.65	7.61	0.524	7.37	7.44	0.945	7.16	6.95	2.98	7.41	7.67	3.45	7.66	5.64	30.4
Conductivity	59.5	55.7	6.60	65.1	63.5	2.49	44.5	44.0	1.13	37.0	26.3	33.8	40.5	41.3	1.96	59.2	<2.0	-
Hardness (as CaCO ₃)	27.7	27.8	0.360	30.3	30.2	0.331	21.1	21.2	0.473	18.1	11.2	47.1	19.0	18.8	1.06	25.8	25.6	0.778
Hardness, Total (as CaCO ₃)	-	-	-	-	-	-	-	-	-	15.4	11.4	29.9	-	-	-	-	-	-
Total Dissolved Solids	57.0	56.0	-	52.0	49.0	-	60.0	63.0	-	48.0	40.0	-	46.0	38.0	-	56.0	53.0	5.50
Total Suspended Solids	<3.0	<3.0	-	<3.0	<3.0	-	6.00	5.20	-	<3.0	<3.0	-	<3.0	<3.0	-	<3.0	<3.0	-
Turbidity	1.19	1.24	4.12	0.290	0.320	-	4.50	5.05	11.5	0.990	0.960	3.08	0.190	0.220	-	0.220	0.200	-
Acidity (as CaCO ₃)	2.30	2.70	-	2.40	2.40	-	2.30	2.30	-	2.50	3.10	-	2.20	1.90	-	1.70	2.30	-
Alkalinity, Total (as CaCO ₃)	31.0	31.3	0.963	32.4	31.9	1.56	22.6	22.1	2.24	16.0	10.4	42.4	19.9	20.0	0.501	29.1	29.0	0.344
Anions and Nutrients																		
Total Kjeldahl Nitrogen	0.188	0.228	-	0.110	0.127	-	0.281	0.258	8.53	0.224	0.206	-	0.107	0.125	-	0.123	0.126	-
Ammonia, Total (as N)	<0.0050	<0.0050	-	<0.0050	0.0229	-	<0.0050	0.00580	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Bromide (Br)	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	<0.050	-
Chloride (Cl)	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-
Fluoride (F)	0.0240	0.0240	-	0.0260	0.0240	-	0.0240	0.0200	-	0.0220	0.0250	-	<0.020	<0.020	-	<0.020	<0.020	-
Nitrate (as N)	0.0137	0.0134	-	0.0543	0.0545	0.368	0.00580	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Nitrite (as N)	<0.0010	<0.0010	-	<0.0010	<0.0010	-	0.00100	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-
Orthophosphate-Dissolved (as P)	0.00150	0.00160	-	0.00120	0.00130	-	<0.0010	<0.0010	-	<0.0010	0.00220	-	0.00190	0.00130	-	0.00190	0.00180	-
Phosphorus (P)-Total	0.00760	0.00780	-	0.00480	0.00500	-	0.0109	0.0114	4.48	0.00820	0.0112	-	<0.0020	0.00420	-	0.00360	0.00360	-
Phosphorus Total Dissolved	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfate (SO ₄)	1.30	1.30	-	1.85	1.78	3.86	0.750	0.590	-	0.660	0.660	-	1.60	1.59	0.627	1.18	1.18	-
Cyanides																		
Cyanide, Total	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Cyanide, Weak Acid Diss	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Thiocyanate	<0.50	<0.50	-	<0.50	<0.50	-	0.460	0.450	-	<0.50	<0.50	-	-	-	-	-	-	-
Organic / Inorganic Carbon																		
Dissolved Organic Carbon	8.61	8.59	0.233	5.53	5.21	5.96	11.4	11.5	0.873	11.5	10.0	14.0	4.77	4.52	5.38	4.83	4.91	1.64
Total Organic Carbon	8.82	8.71	1.25	5.75	6.15	6.72	12.0	12.1	0.830	11.7	9.86	17.1	4.56	4.53	0.660	4.78	4.90	2.48

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	BI-09			BI-09			BI-09			BI-09			BI-13			BI-13		
Depth	Surface			Surface			Surface			Surface			Surface			Surface		
Date	4/16/2018			2/13/2019			7/18/2019			5/26/2020			5/25/2016			8/10/2016		
LabID	L2081505-1	L2081505-2		L2233329-4	L2233329-6		L2313851-1	L2313851-5		VA20A7202-002	VA20A7202-005		L1774541-6	L1774541-4		L1812856-6	L1812856-4	
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Total Metals																		
Aluminum (Al)-Total	0.110	0.108	1.83	0.0374	0.0391	4.44	0.579	0.284	68.4	0.140	0.170	19.4	0.0671	0.0671	0	0.0412	0.0461	11.2
Antimony (Sb)-Total	<0.00010	<0.00010	0	<0.00010	<0.00010	0	<0.00010	<0.00010	0	<0.00010	<0.00010	-	<0.00010	<0.00010	0	<0.00010	<0.00010	0
Arsenic (As)-Total	0.000220	0.000230	-	0.000160	0.000180	-	0.000300	0.000300	-	0.000190	0.000430	-	0.000470	0.000510	-	0.000550	0.000580	5.31
Barium (Ba)-Total	0.00884	0.00931	5.18	0.00841	0.00817	2.90	0.0102	0.00938	8.38	0.00550	0.00418	27.3	0.00258	0.00268	3.80	0.00366	0.00383	4.54
Beryllium (Be)-Total	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.000020	0.0000210	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Bismuth (Bi)-Total	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Boron (B)-Total	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-
Cadmium (Cd)-Total	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	0.00000510	0.00000610	-	<0.0000050	0.00000620	-	0.0000160	0.0000130	-	<0.0000050	0.0000130	-
Calcium (Ca)-Total	8.65	8.57	0.929	9.01	8.79	2.47	6.64	6.92	4.13	4.82	3.52	31.2	6.73	6.76	0.445	8.71	8.57	1.62
Chromium (Cr)-Total	0.00404	0.000360	-	0.000100	0.000100	-	0.000460	0.000350	-	0.000220	0.000220	-	0.000160	0.000150	-	0.000150	0.000210	-
Cobalt (Co)-Total	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Copper (Cu)-Total	0.000630	0.000580	-	<0.00050	<0.00050	-	0.000810	0.000710	-	<0.00050	<0.00050	-	<0.00050	0.000510	-	0.000510	0.000580	-
Iron (Fe)-Total	0.165	0.142	-	0.0670	0.0700	-	0.326	0.236	32.0	0.0840	0.0800	4.88	<0.030	<0.030	-	<0.030	<0.030	-
Lead (Pb)-Total	<0.000050	<0.000050	-	<0.000050	<0.000050	-	0.000102	0.0000720	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Lithium (Li)-Total	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-
Magnesium (Mg)-Total	1.56	1.54	1.29	1.61	1.68	4.26	1.12	1.10	1.80	0.805	0.642	22.5	0.630	0.629	0.159	0.733	0.831	12.5
Manganese (Mn)-Total	0.00404	0.00367	9.60	0.00179	0.00174	2.83	0.0235	0.00976	82.6	0.00204	0.00364	56.3	0.000650	0.000670	3.03	0.000480	0.000550	-
Mercury (Hg)-Total	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	0.00000620	0.00000690	-	0.00000680	0.00000720	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-
Molybdenum (Mo)-Total	0.000402	0.000453	11.9	0.000512	0.000478	6.87	0.000346	0.000344	0.580	0.000284	0.000218	-	0.000280	0.000269	4.01	0.000331	0.000346	4.43
Nickel (Ni)-Total	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Phosphorus (P)-Total	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.050	<0.050	-	<0.30	<0.30	-	<0.30	<0.30	-
Potassium (K)-Total	0.286	0.327	13.4	0.283	0.287	1.40	0.238	0.225	-	0.157	0.208	-	0.225	0.229	-	0.327	0.345	5.36
Selenium (Se)-Total	<0.000050	<0.000050	-	<0.000050	<0.000050	-	0.0000530	0.0000510	-	<0.000050	<0.000050	-	<0.000050	0.0000510	-	<0.000050	<0.000050	-
Silicon (Si)-Total	4.41	4.37	0.911	3.66	3.84	4.80	4.58	4.58	0	3.88	4.32	10.7	4.18	4.20	0.477	5.17	5.01	3.14
Silver (Ag)-Total	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Sodium (Na)-Total	2.40	2.40	-	2.20	2.30	-	<2.0	<2.0	-	1.34	1.58	16.4	<2.0	<2.0	-	<2.0	<2.0	-
Strontium (Sr)-Total	0.0630	0.0659	4.50	0.0620	0.0584	5.98	0.0468	0.0455	2.82	0.0342	0.0270	23.5	0.0301	0.0303	0.662	0.0370	0.0371	0.270
Sulfur (S)-Total	<0.50	0.520	-	0.550	0.580	-	<0.50	<0.50	-	<0.50	<0.50	-	-	-	-	-	-	-
Thallium (Tl)-Total	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Tin (Sn)-Total	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Titanium (Ti)-Total	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	0.00138	0.00138	-	<0.010	<0.010	-	<0.010	<0.010	-
Uranium (U)-Total	0.000169	0.000171	1.18	0.000154	0.000147	4.65	0.000260	0.000240	8.00	0.000222	0.000155	35.5	0.0000390	0.0000390	-	0.0000350	0.0000330	-
Vanadium (V)-Total	0.000550	0.000540	-	<0.00050	<0.00050	-	0.000780	0.000670	-	<0.00050	<0.00050	-	0.000550	0.000610	-	<0.00050	0.000560	-
Zinc (Zn)-Total	<0.0030	<0.0030	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	BI-09			BI-09			BI-09			BI-09			BI-13			BI-13		
Depth	Surface			Surface			Surface			Surface			Surface			Surface		
Date	4/16/2018			2/13/2019			7/18/2019			5/26/2020			5/25/2016			8/10/2016		
LabID	L2081505-1	L2081505-2		L2233329-4	L2233329-6		L2313851-1	L2313851-5		VA20A7202-002	VA20A7202-005		L1774541-6	L1774541-4		L1812856-6	L1812856-4	
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Dissolved Metals																		
Aluminum (Al)-Dissolved	0.0814	0.0789	3.12	0.0271	0.0274	1.10	0.110	0.111	0.905	0.139	0.154	10.2	0.0585	0.0585	0	0.0324	0.0365	11.9
Antimony (Sb)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Arsenic (As)-Dissolved	0.000190	0.000160	-	0.000190	0.000160	-	0.000250	0.000240	-	0.000180	0.000390	-	0.000460	0.000460	-	0.000510	0.000550	7.55
Barium (Ba)-Dissolved	0.00894	0.00850	5.05	0.00917	0.00908	0.986	0.00813	0.00797	1.99	0.00645	0.00395	48.1	0.00252	0.00254	0.791	0.00365	0.00368	0.819
Beryllium (Be)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	0.0000290	0.0000260	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Bismuth (Bi)-Dissolved	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Boron (B)-Dissolved	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-
Cadmium (Cd)-Dissolved	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	0.00000560	-	0.0000170	0.0000170	-	0.00000600	0.0000110	-
Calcium (Ca)-Dissolved	8.55	8.59	0.467	9.41	9.37	0.426	6.65	6.69	0.600	5.63	3.41	49.1	6.55	6.49	0.920	9.12	8.94	1.99
Chromium (Cr)-Dissolved	0.000170	0.000400	-	<0.00010	<0.00010	-	0.000210	0.000240	-	0.000190	0.000200	-	0.000150	0.000110	-	0.000120	0.000110	-
Cobalt (Co)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Copper (Cu)-Dissolved	<0.00050	<0.00050	-	<0.00050	<0.00050	-	0.000570	0.000580	-	0.000570	0.000470	-	<0.00050	<0.00050	-	<0.00050	0.000540	-
Iron (Fe)-Dissolved	0.108	0.108	-	0.0490	0.0490	-	0.114	0.116	-	0.0870	0.0730	17.5	<0.030	<0.030	-	<0.030	<0.030	-
Lead (Pb)-Dissolved	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Lithium (Li)-Dissolved	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-
Magnesium (Mg)-Dissolved	1.54	1.54	0	1.66	1.66	0	1.09	1.09	0	0.978	0.664	38.2	0.629	0.624	0.798	0.737	0.804	8.70
Manganese (Mn)-Dissolved	0.00232	0.00223	3.96	0.00122	0.00122	0	0.00274	0.00317	14.6	0.00158	0.00232	37.9	0.000190	0.000240	-	0.000210	0.000260	-
Mercury (Hg)-Dissolved	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	0.00000670	0.00000620	-	0.00000600	0.00000580	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-
Molybdenum (Mo)-Dissolved	0.000381	0.000451	16.8	0.000540	0.000513	5.13	0.000351	0.000315	10.8	0.000278	0.000188	-	0.000242	0.000259	-	0.000324	0.000312	3.77
Nickel (Ni)-Dissolved	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Phosphorus (P)-Dissolved	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.050	<0.050	-	<0.30	<0.30	-	<0.30	<0.30	-
Potassium (K)-Dissolved	0.286	0.289	1.04	0.301	0.296	1.68	0.210	0.205	-	0.237	0.251	-	0.232	0.231	-	0.328	0.336	2.41
Selenium (Se)-Dissolved	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	0.0000620	-	<0.000050	0.0000580	-
Silicon (Si)-Dissolved	4.41	4.51	2.24	3.69	3.73	1.08	4.35	4.33	0.461	3.77	4.27	12.4	4.06	4.11	1.22	5.16	5.12	0.778
Silver (Ag)-Dissolved	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Sodium (Na)-Dissolved	2.10	2.10	-	2.50	2.30	-	<2.0	<2.0	-	1.46	1.45	0.687	<2.0	<2.0	-	<2.0	<2.0	-
Strontium (Sr)-Dissolved	0.0590	0.0613	3.82	0.0593	0.0620	4.45	0.0447	0.0431	3.64	0.0383	0.0268	35.3	0.0289	0.0290	0.345	0.0383	0.0390	1.81
Sulfur (S)-Dissolved	0.560	0.620	-	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	-	-	-	-	-	-
Thallium (Tl)-Dissolved	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Tin (Sn)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Titanium (Ti)-Dissolved	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	0.00136	0.00120	-	<0.010	<0.010	-	<0.010	<0.010	-
Uranium (U)-Dissolved	0.000158	0.000159	0.631	0.000146	0.000142	2.78	0.000222	0.000211	5.08	0.000228	0.000150	41.3	0.0000340	0.0000360	-	0.0000320	0.0000360	-
Vanadium (V)-Dissolved	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Zinc (Zn)-Dissolved	<0.0030	<0.0030	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0030	0.00600	-	<0.0030	<0.0030	-

Notes:
All measurements are mg/L unless otherwise noted.

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ1			WQ1			WQ1			WQ10			WQ10			WQ10		
Depth	Surface			Surface			Surface			Surface			Surface			Surface		
Date	6/6/2011			5/21/2013			2/20/2020			9/24/2014			8/30/2017			3/28/2018		
LabID							VA20A2211-001	VA20A2211-005					L1984944-1	L1984944-10		L2074294-3	L2074294-8	
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular		RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Physical Tests																		
pH	6.37	6.37	0	6.55	6.40	2.32	7.24	7.22	0.277	7.81	7.82	0.128	7.96	7.84	1.52	8.07	8.06	0.124
Conductivity	17.0	23.0	30.0	19.0	20.0	5.13	31.1	31.3	0.641	121	123	1.64	113	111	1.79	99.5	98.3	1.21
Hardness (as CaCO ₃)	-	-	-	-	-	-	10.5	10.8	2.82	59.1	59.6	0.842	49.5	49.6	0.202	39.8	44.3	10.7
Hardness, Total (as CaCO ₃)	-	-	-	-	-	-	11.1	11.0	0.905	-	-	-	-	-	-	-	-	-
Total Dissolved Solids	-	-	-	28.0	64.0	78.3	38.0	38.0	-	8.00	72.0	-	87.0	84.0	3.51	70.0	72.0	2.82
Total Suspended Solids	< 2	5.00	-	< 2	< 2	-	<3.0	<3.0	-	<2	<2	-	<3.0	<3.0	-	3.60	<3.0	-
Turbidity	1.10	1.30	16.7	1.60	1.50	6.45	0.530	0.580	9.01	0.200	0.200	-	0.280	0.270	-	0.320	0.280	-
Acidity (as CaCO ₃)	-	-	-	-	-	-	2.80	2.60	-	-	-	-	2.10	1.80	-	1.50	1.60	-
Alkalinity, Total (as CaCO ₃)	3.00	3.00	-	5.00	7.00	33.3	11.0	10.6	3.70	59.0	59.0	0	55.9	56.1	0.357	48.2	48.4	0.414
Anions and Nutrients																		
Total Kjeldahl Nitrogen	0.460	0.610	28.0	0.160	0.250	-	0.0990	0.108	-	<0.08	<0.08	-	0.0510	0.0620	-	0.0550	<0.050	-
Ammonia, Total (as N)	< 0.02	< 0.02	-	< 0.02	< 0.02	-	<0.0050	<0.0050	-	<0.02	<0.02	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Bromide (Br)	-	-	-	-	-	-	<0.050	<0.050	-	-	-	-	<0.050	<0.050	-	<0.050	<0.050	-
Chloride (Cl)	0.200	0.300	-	0.200	0.200	-	<0.50	<0.50	-	<0.1	<0.1	-	<0.50	<0.50	-	<0.50	<0.50	-
Fluoride (F)	0.0300	0.0400	-	0.0300	0.0400	-	0.0210	0.0210	-	0.0900	0.100	-	0.0400	0.0410	-	0.0400	0.0400	-
Nitrate (as N)	0.00600	0.0560	-	0.00800	0.0170	-	0.00600	0.00520	-	<0.005	<0.005	-	0.00930	0.00840	-	0.0263	0.0263	0
Nitrite (as N)	< 0.003	< 0.003	-	< 0.003	< 0.003	-	<0.0010	<0.0010	-	<0.003	<0.003	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-
Orthophosphate-Dissolved (as P)	< 0.003	< 0.003	-	< 0.003	< 0.003	-	0.00210	0.00220	-	<0.003	<0.003	-	0.00450	0.00410	-	0.00690	0.00590	15.6
Phosphorus (P)-Total	-	-	-	-	-	-	0.00700	0.00750	-	-	-	-	0.00680	0.00670	-	0.00900	0.0101	-
Phosphorus Total Dissolved	0.0100	0.00900	10.5	0.0260	0.0230	12.2	-	-	-	<0.01	<0.01	0	-	-	-	-	-	-
Sulfate (SO ₄)	1.60	2.10	-	1.50	1.70	-	3.79	3.78	0.264	2.60	2.50	3.92	2.91	2.89	0.690	2.96	2.95	0.338
Cyanides																		
Cyanide, Total	0.00960	0.0119	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Cyanide, Weak Acid Diss	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Thiocyanate	-	-	-	-	-	-	<0.50	<0.50	-	-	-	-	<0.50	<0.50	-	<0.50	<0.50	-
Organic / Inorganic Carbon																		
Dissolved Organic Carbon	10.7	11.8	9.78	10.4	10.4	0	5.02	5.00	0.399	2.20	2.30	4.44	2.52	2.31	-	2.31	2.36	-
Total Organic Carbon	11.9	12.5	4.92	10.4	10.4	0	5.27	5.05	4.26	2.30	2.30	0	2.36	2.54	-	2.53	2.42	-

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ1			WQ1			WQ1			WQ10			WQ10			WQ10		
Depth	Surface			Surface			Surface			Surface			Surface			Surface		
Date	6/6/2011			5/21/2013			2/20/2020			9/24/2014			8/30/2017			3/28/2018		
LabID							VA20A2211-001	VA20A2211-005					L1984944-1	L1984944-10		L2074294-3	L2074294-8	
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular		RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Total Metals																		
Aluminum (Al)-Total	0.302	0.304	0.660	0.313	0.311	0.641	0.118	0.118	0	0.0150	0.0120	22.2	0.0180	0.0190	5.41	0.0197	0.0159	21.3
Antimony (Sb)-Total	< 0.00005	< 0.00005	0	< 0.00005	< 0.00005	0	<0.00010	<0.00010	-	< 0.00005	<0.00005	0	<0.00010	<0.00010	0	<0.00010	<0.00010	0
Arsenic (As)-Total	0.000400	0.000400	-	0.000400	0.000400	-	0.000610	0.000590	3.33	0.000600	0.000600	0	0.000760	0.000720	5.41	<0.00080	<0.00070	-
Barium (Ba)-Total	0.00319	0.00311	2.54	0.00317	0.00293	7.87	0.00325	0.00320	1.55	0.00971	0.00951	2.08	0.0100	0.00970	3.05	0.00649	0.00660	1.68
Beryllium (Be)-Total	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	<0.000020	<0.000020	-	< 0.0001	<0.0001	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Bismuth (Bi)-Total	-	-	-	-	-	-	<0.000050	<0.000050	-	-	-	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Boron (B)-Total	< 0.001	0.00100	-	< 0.001	< 0.001	-	<0.010	<0.010	-	< 0.001	<0.001	-	<0.010	<0.010	-	<0.010	<0.010	-
Cadmium (Cd)-Total	0.0000270	0.0000380	-	< 0.000015	< 0.000015	-	0.00000890	0.00000800	-	< 0.000015	<0.000015	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-
Calcium (Ca)-Total	1.60	1.60	-	1.80	1.70	-	3.23	3.21	0.621	18.0	18.2	1.10	15.5	15.7	1.28	13.0	12.8	1.55
Chromium (Cr)-Total	0.000300	0.000300	-	< 0.0003	< 0.0003	-	0.000180	0.000160	-	0.000300	0.000300	-	0.000290	0.000280	-	0.000300	0.000220	-
Cobalt (Co)-Total	0.0000500	0.0000500	-	0.0000500	0.0000500	-	<0.00010	<0.00010	-	< 0.00002	<0.00002	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Copper (Cu)-Total	0.000500	0.000500	0	0.000100	< 0.0001	-	<0.00050	<0.00050	-	0.000100	0.000100	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Iron (Fe)-Total	0.152	0.149	1.99	0.159	0.159	0	0.209	0.211	0.952	0.0626	0.0631	0.796	0.0840	0.0850	-	0.0760	0.0750	-
Lead (Pb)-Total	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	<0.000050	<0.000050	-	< 0.00005	<0.00005	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Lithium (Li)-Total	< 0.001	< 0.001	-	< 0.001	< 0.001	-	<0.0010	<0.0010	-	< 0.001	<0.001	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-
Magnesium (Mg)-Total	< 0.50	< 0.50	-	< 0.50	< 0.50	-	0.746	0.730	2.17	3.46	3.45	0.289	3.25	3.14	3.44	2.47	2.46	0.406
Manganese (Mn)-Total	0.0113	0.0111	1.79	0.00537	0.00491	8.95	0.0159	0.0168	5.50	0.00361	0.00430	17.4	0.00416	0.00452	8.29	0.00257	0.00243	5.60
Mercury (Hg)-Total	< 0.000008	< 0.000008	-	< 0.000005	< 0.000005	-	<0.0000050	<0.0000050	-	< 0.000005	<0.000005	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-
Molybdenum (Mo)-Total	0.0000900	0.0000800	-	0.0000800	0.0000900	-	0.000214	0.000434	-	0.000960	0.000960	0	0.00109	0.00105	3.74	0.000821	0.000781	4.99
Nickel (Ni)-Total	0.000280	0.000280	-	0.000290	0.000270	-	<0.00050	<0.00050	-	0.000110	0.000110	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Phosphorus (P)-Total	< 0.02	< 0.02	-	0.0200	0.0100	-	<0.050	<0.050	-	< 0.01	<0.01	-	<0.30	<0.30	-	<0.30	<0.30	-
Potassium (K)-Total	< 0.5	< 0.5	-	< 0.5	< 0.5	-	0.285	0.286	-	0.700	0.700	-	0.551	0.550	0.182	0.400	0.397	0.753
Selenium (Se)-Total	< 0.0006	< 0.0006	-	< 0.0001	< 0.0001	-	<0.000050	<0.000050	-	< 0.0001	<0.0001	-	0.0000690	0.0000700	-	0.0000780	0.0000800	-
Silicon (Si)-Total	3.45	3.39	1.75	3.81	3.80	0.263	6.24	6.09	2.43	5.81	5.83	0.344	6.24	6.23	0.160	5.90	5.88	0.340
Silver (Ag)-Total	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	<0.000010	<0.000010	-	< 0.00005	<0.00005	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Sodium (Na)-Total	1.00	1.00	-	1.40	1.40	-	2.26	2.25	0.443	3.80	3.80	0	3.70	3.60	-	3.00	3.00	-
Strontium (Sr)-Total	0.0147	0.0149	1.35	0.0186	0.0170	8.99	0.0279	0.0267	4.40	0.113	0.111	1.79	0.107	0.106	0.939	0.0875	0.0867	0.918
Sulfur (S)-Total	-	-	-	-	-	-	0.950	1.01	-	-	-	-	1.02	1.09	-	0.860	1.09	-
Thallium (Tl)-Total	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	<0.000010	<0.000010	-	< 0.00005	<0.00005	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Tin (Sn)-Total	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	<0.00010	<0.00010	-	< 0.0001	<0.0001	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Titanium (Ti)-Total	0.00410	0.00370	10.3	0.00370	0.00390	5.26	0.00156	0.00134	-	0.000200	0.000200	-	<0.010	<0.010	-	<0.010	<0.010	-
Uranium (U)-Total	0.000170	0.000170	-	0.000170	0.000160	-	0.0000860	0.0000800	7.23	0.000300	0.000300	0	0.000282	0.000290	2.80	0.000237	0.000234	1.27
Vanadium (V)-Total	0.000200	0.000200	-	0.000320	0.000330	-	<0.00050	<0.00050	-	0.000360	0.000310	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Zinc (Zn)-Total	0.00470	0.00850	-	0.00170	0.00150	-	<0.0030	<0.0030	-	< 0.0005	0.00250	-	<0.0090	<0.0030	-	<0.0030	<0.0030	-

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ1			WQ1			WQ1			WQ10			WQ10			WQ10		
Depth	Surface			Surface			Surface			Surface			Surface			Surface		
Date	6/6/2011			5/21/2013			2/20/2020			9/24/2014			8/30/2017			3/28/2018		
LabID							VA20A2211-001	VA20A2211-005					L1984944-1	L1984944-10		L2074294-3	L2074294-8	
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular		RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Dissolved Metals																		
Aluminum (Al)-Dissolved	0.241	0.242	0.414	0.256	0.263	2.70	0.0862	0.0918	6.29	0.0110	0.00900	-	0.0116	0.0124	-	0.0117	0.0124	-
Antimony (Sb)-Dissolved	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	<0.00010	<0.00010	-	< 0.00005	<0.00005	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Arsenic (As)-Dissolved	0.000300	0.000300	-	0.000300	0.000200	-	0.000470	0.000490	-	0.000600	0.000600	0	0.000640	0.000600	6.45	0.000520	0.000450	-
Barium (Ba)-Dissolved	0.00280	0.00284	1.42	0.00259	0.00262	1.15	0.00270	0.00270	0	0.00944	0.00949	0.528	0.00965	0.00950	1.57	0.00638	0.00719	11.9
Beryllium (Be)-Dissolved	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	<0.000020	<0.000020	-	< 0.0001	<0.0001	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Bismuth (Bi)-Dissolved	-	-	-	-	-	-	<0.000050	<0.000050	-	-	-	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Boron (B)-Dissolved	< 0.001	0.00100	-	< 0.001	< 0.001	-	<0.010	<0.010	-	< 0.001	<0.001	-	<0.010	<0.010	-	<0.010	<0.010	-
Cadmium (Cd)-Dissolved	0.0000270	0.0000150	-	< 0.000015	< 0.000015	-	<0.0000050	<0.0000050	-	< 0.000015	<0.000015	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-
Calcium (Ca)-Dissolved	1.60	1.60	-	1.70	1.70	-	3.09	3.20	3.50	17.4	18.2	4.49	14.8	14.9	0.673	12.1	13.3	9.45
Chromium (Cr)-Dissolved	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	-	0.000160	0.000170	-	< 0.0003	<0.0003	-	0.000200	0.000200	-	0.000400	0.000200	-
Cobalt (Co)-Dissolved	0.0000400	0.0000300	-	0.0000300	0.0000300	-	<0.00010	<0.00010	-	< 0.00002	<0.00002	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Copper (Cu)-Dissolved	0.000500	0.000500	0	0.000100	< 0.0001	-	0.000280	0.000200	-	0.000100	0.000100	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Iron (Fe)-Dissolved	0.105	0.108	2.82	0.125	0.130	3.92	0.131	0.133	1.52	0.0497	0.0493	0.808	0.0560	0.0580	-	0.113	0.0480	-
Lead (Pb)-Dissolved	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	<0.000050	<0.000050	-	< 0.00005	<0.00005	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Lithium (Li)-Dissolved	< 0.001	< 0.001	-	< 0.001	< 0.001	-	<0.0010	<0.0010	-	< 0.001	<0.001	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-
Magnesium (Mg)-Dissolved	< 0.50	< 0.50	-	< 0.50	< 0.50	-	0.676	0.675	0.148	3.35	3.45	2.94	3.01	2.98	1.00	2.31	2.71	15.9
Manganese (Mn)-Dissolved	0.00633	0.00636	0.473	0.00335	0.00345	2.94	0.0116	0.0116	0	0.00314	0.00326	3.75	0.00292	0.00293	0.342	0.00206	0.00122	51.2
Mercury (Hg)-Dissolved	< 0.000008	< 0.000008	-	< 0.000005	< 0.000005	-	<0.0000050	<0.0000050	-	< 0.000005	<0.000005	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-
Molybdenum (Mo)-Dissolved	< 0.00005	< 0.00005	-	0.0000700	0.0000700	-	0.000180	0.000235	-	0.000940	0.000950	1.06	0.000897	0.000904	0.777	0.000760	0.000871	13.6
Nickel (Ni)-Dissolved	0.000280	0.000280	0	0.000240	0.000240	-	<0.00050	<0.00050	-	0.0000800	0.0000900	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Phosphorus (P)-Dissolved	< 0.01	< 0.01	-	< 0.01	0.0100	-	<0.050	<0.050	-	< 0.01	<0.01	-	<0.30	<0.30	-	<0.30	<0.30	-
Potassium (K)-Dissolved	< 0.5	< 0.5	-	< 0.5	< 0.5	-	0.255	0.264	-	0.700	0.700	-	0.518	0.510	1.56	0.408	0.434	6.18
Selenium (Se)-Dissolved	< 0.0006	< 0.0006	-	< 0.0001	< 0.0001	-	<0.000050	<0.000050	-	< 0.0001	<0.0001	-	0.0000530	0.0000540	-	0.0000940	0.0000710	-
Silicon (Si)-Dissolved	3.17	3.26	2.80	3.18	3.20	0.627	5.74	5.76	0.348	5.81	5.83	0.344	5.81	5.87	1.03	5.84	6.02	3.04
Silver (Ag)-Dissolved	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	<0.000010	<0.000010	-	< 0.00005	<0.00005	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Sodium (Na)-Dissolved	1.00	1.00	-	1.40	1.40	-	1.92	1.92	0	3.70	3.80	2.67	3.50	3.40	-	3.10	3.20	-
Strontium (Sr)-Dissolved	0.0145	0.0144	0.692	0.0169	0.0168	0.593	0.0268	0.0284	5.80	0.111	0.110	0.905	0.104	0.102	1.94	0.0812	0.0910	11.4
Sulfur (S)-Dissolved	-	-	-	-	-	-	1.01	1.04	-	-	-	-	0.830	0.860	-	0.900	0.960	-
Thallium (Tl)-Dissolved	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	<0.000010	<0.000010	-	< 0.00005	<0.00005	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Tin (Sn)-Dissolved	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	<0.00010	<0.00010	-	< 0.0001	<0.0001	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Titanium (Ti)-Dissolved	0.00180	0.00170	5.71	0.00260	0.00270	3.77	0.000920	0.000880	-	< 0.0002	<0.0002	-	<0.010	<0.010	-	<0.010	<0.010	-
Uranium (U)-Dissolved	0.000150	0.000150	-	0.000150	0.000140	-	0.0000690	0.0000710	2.86	0.000290	0.000290	0	0.000258	0.000252	2.35	0.000231	0.000241	4.24
Vanadium (V)-Dissolved	0.000110	0.000110	-	< 0.00005	< 0.00005	-	<0.00050	<0.00050	-	0.000110	0.000120	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Zinc (Zn)-Dissolved	0.00440	0.00850	63.6	0.00170	0.00140	-	0.00220	0.00190	-	< 0.0005	0.00250	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-

Notes:
All measurements are mg/L unless otherwise noted.

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ10			WQ10			WQ11			WQ11			WQ12			WQ13		
Depth	Surface			Surface			Surface			Surface			Surface			Surface		
Date	4/8/2019			8/5/2020			5/9/2016			5/16/2016			3/12/2012			6/11/2012		
LabID	L2256053-1	L2256053-5		VA20B2156-001	VA20B2156-008		L1767107-2	L1767107-6		L1770672-1	L1770672-5							
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Physical Tests																		
pH	7.70	7.69	0.130	7.56	7.54	0.265	7.47	7.43	0.537	7.67	7.56	1.44	7.60	7.57	0.396	7.78	7.78	0
Conductivity	78.7	78.2	0.637	67.9	67.2	1.04	42.2	41.6	1.43	49.7	49.4	0.605	53.0	52.0	1.90	120	119	0.837
Hardness (as CaCO ₃)	32.7	33.6	2.71	29.2	29.4	0.683	20.4	20.4	0	23.9	23.7	0.840	-	-	-	-	-	-
Hardness, Total (as CaCO ₃)	-	-	-	28.9	28.9	0	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids	61.0	66.0	-	60.0	52.0	-	61.0	65.0	6.35	67.0	61.0	9.38	-	-	-	-	-	-
Total Suspended Solids	<3.0	<3.0	-	<3.0	<3.0	-	<3.0	<3.0	-	<3.0	<3.0	-	6.00	< 2	-	8.00	7.00	-
Turbidity	0.540	0.580	7.14	0.380	0.380	-	1.18	0.960	20.6	0.760	0.820	7.59	1.80	1.20	40.0	2.60	2.80	7.41
Acidity (as CaCO ₃)	1.70	2.50	-	2.10	2.50	-	2.30	2.30	-	2.30	2.30	-	-	-	-	-	-	-
Alkalinity, Total (as CaCO ₃)	39.7	40.0	0.753	32.8	32.6	0.612	20.0	19.6	2.02	25.3	25.1	0.794	25.0	25.0	0	65.0	63.0	3.13
Anions and Nutrients																		
Total Kjeldahl Nitrogen	0.180	0.0960	-	0.115	0.112	-	0.307	0.314	2.25	0.287	0.303	5.42	< 0.08	< 0.08	-	0.110	0.110	-
Ammonia, Total (as N)	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	< 0.02	< 0.02	-	< 0.02	< 0.02	-
Bromide (Br)	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	<0.050	-	-	-	-	-	-	-
Chloride (Cl)	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	0.200	0.200	-	0.500	0.300	-
Fluoride (F)	0.0390	0.0390	-	0.0370	0.0360	-	0.0290	0.0290	-	0.0320	0.0320	-	0.0300	0.0300	-	0.0600	0.0600	-
Nitrate (as N)	0.00560	0.00550	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	0.0320	0.0300	6.45	< 0.005	< 0.005	-
Nitrite (as N)	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	< 0.003	< 0.003	-	0.00300	< 0.003	-
Orthophosphate-Dissolved (as P)	0.00300	0.00310	-	0.00460	0.00430	-	0.00110	0.00120	-	0.00150	0.00170	-	< 0.003	< 0.003	-	< 0.003	< 0.003	-
Phosphorus (P)-Total	0.0102	0.0104	1.94	0.00870	0.00870	-	0.00740	0.00740	-	0.00810	0.00710	-	-	-	-	-	-	-
Phosphorus Total Dissolved	-	-	-	-	-	-	-	-	-	-	-	-	< 0.001	< 0.001	-	< 0.001	0.00200	-
Sulfate (SO ₄)	2.12	2.12	0	1.55	1.54	0.647	0.640	0.620	-	0.690	0.700	-	1.20	1.20	-	3.00	2.90	3.39
Cyanides																		
Cyanide, Total	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Cyanide, Weak Acid Diss	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Thiocyanate	<0.50	<0.50	-	<0.50	<0.50	-	-	-	-	-	-	-	-	-	-	-	-	-
Organic / Inorganic Carbon																		
Dissolved Organic Carbon	5.05	5.14	1.77	4.81	4.90	1.85	16.7	16.4	1.81	16.4	16.0	2.47	5.40	5.50	1.83	7.70	8.20	6.29
Total Organic Carbon	4.98	4.91	1.42	4.73	4.68	1.06	15.3	16.1	5.10	15.8	16.3	3.12	5.70	5.50	3.57	8.00	8.40	4.88

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ10			WQ10			WQ11			WQ11			WQ12			WQ13		
Depth	Surface			Surface			Surface			Surface			Surface			Surface		
Date	4/8/2019			8/5/2020			5/9/2016			5/16/2016			3/12/2012			6/11/2012		
LabID	L2256053-1	L2256053-5		VA20B2156-001	VA20B2156-008		L1767107-2	L1767107-6		L1770672-1	L1770672-5							
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Total Metals																		
Aluminum (Al)-Total	0.0617	0.0641	3.82	0.0615	0.0482	24.2	0.360	0.359	0.278	0.263	0.251	4.67	0.141	0.0570	84.8	0.0320	0.0610	62.4
Antimony (Sb)-Total	<0.00010	<0.00010	0	<0.00010	<0.00010	-	<0.00010	<0.00010	0	<0.00010	<0.00010	0	<0.00005	<0.00005	0	0.0000600	<0.00005	-
Arsenic (As)-Total	0.000630	0.000580	8.26	0.000720	0.000720	0	0.000220	0.000200	-	0.000200	0.000190	-	0.000300	0.000200	-	0.000400	0.000600	-
Barium (Ba)-Total	0.00673	0.00691	2.64	0.00644	0.00629	2.36	0.00616	0.00621	0.808	0.00686	0.00630	8.51	0.00864	0.00649	28.4	0.0920	0.00697	172
Beryllium (Be)-Total	<0.00010	<0.00010	-	<0.000020	<0.000020	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.0001	<0.0001	-	<0.0001	<0.0001	-
Bismuth (Bi)-Total	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	-	-	-	-	-	-
Boron (B)-Total	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.001	<0.001	-	0.00900	<0.001	-
Cadmium (Cd)-Total	<0.0000050	<0.0000050	-	<0.0000050	0.00000540	-	<0.0000050	<0.0000050	-	0.00000600	<0.0000050	-	0.0000170	<0.000015	-	<0.000015	<0.000015	-
Calcium (Ca)-Total	10.0	10.4	3.92	8.72	8.78	0.686	6.31	6.05	4.21	7.19	7.18	0.139	7.50	7.30	2.70	15.7	15.7	0
Chromium (Cr)-Total	0.000290	0.000290	-	0.000220	0.000220	-	0.000490	0.000420	-	0.000370	0.000360	-	0.000500	<0.0003	-	<0.0003	<0.0003	-
Cobalt (Co)-Total	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	0.000180	0.0000600	-	0.0000200	0.0000300	-
Copper (Cu)-Total	<0.00050	<0.00050	-	<0.00050	<0.00050	-	0.000950	0.000850	-	0.000870	0.000830	-	<0.0001	<0.0001	-	0.00230	0.000300	-
Iron (Fe)-Total	0.149	0.149	-	0.149	0.138	7.67	0.164	0.167	1.81	0.121	0.112	-	0.628	0.288	74.2	0.0685	0.136	66.0
Lead (Pb)-Total	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	0.0000600	<0.00005	-	<0.00005	<0.00005	-
Lithium (Li)-Total	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.001	<0.001	-	<0.001	<0.001	-
Magnesium (Mg)-Total	1.95	2.01	3.03	1.73	1.68	2.93	1.23	1.22	0.816	1.41	1.32	6.59	1.31	1.27	-	3.54	3.93	10.4
Manganese (Mn)-Total	0.00394	0.00396	0.506	0.00758	0.00606	22.3	0.00276	0.00264	4.44	0.00205	0.00188	8.65	0.144	0.0424	109	0.0117	0.0209	56.4
Mercury (Hg)-Total	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	0.0000160	0.0000150	-	0.0000170	0.0000150	-	<0.000008	<0.000008	-	<0.000005	<0.000005	-
Molybdenum (Mo)-Total	0.000616	0.000618	0.324	0.000564	0.000593	5.01	0.000124	0.000114	-	0.000136	0.000143	-	0.000690	0.000650	5.97	0.000470	0.000460	2.15
Nickel (Ni)-Total	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	0.000170	0.000100	-	0.000260	0.000290	-
Phosphorus (P)-Total	<0.30	<0.30	-	<0.050	<0.050	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.02	<0.02	-	<0.02	<0.02	-
Potassium (K)-Total	0.448	0.447	0.223	0.367	0.358	-	0.355	0.351	1.13	0.417	0.392	6.18	<0.5	<0.5	-	0.600	0.700	-
Selenium (Se)-Total	<0.000050	0.0000910	-	0.000108	<0.000050	-	0.0000820	0.0000680	-	<0.000050	<0.000050	-	<0.0006	<0.0006	-	<0.0006	<0.0006	-
Silicon (Si)-Total	6.36	6.34	0.315	5.72	5.72	0	6.02	6.08	0.992	6.40	5.89	8.30	3.94	3.81	3.35	4.95	4.78	3.49
Silver (Ag)-Total	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.00005	<0.00005	-	<0.00005	<0.00005	-
Sodium (Na)-Total	2.80	2.90	-	2.61	2.55	2.33	2.00	2.00	-	2.40	2.20	-	2.10	2.00	-	3.10	3.30	6.25
Strontium (Sr)-Total	0.0730	0.0716	1.94	0.0618	0.0613	0.812	0.0404	0.0380	6.12	0.0458	0.0462	0.870	0.0582	0.0582	0	0.0834	0.0842	0.955
Sulfur (S)-Total	0.790	0.780	-	<0.50	<0.50	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium (Tl)-Total	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.00005	<0.00005	-	<0.00005	<0.00005	-
Tin (Sn)-Total	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.0001	<0.0001	-	<0.0001	<0.0001	-
Titanium (Ti)-Total	<0.010	<0.010	-	0.00100	0.000540	-	<0.010	<0.010	-	<0.010	<0.010	-	0.00390	0.00150	88.9	0.000600	0.00200	-
Uranium (U)-Total	0.000168	0.000164	2.41	0.000154	0.000146	5.33	0.000166	0.000159	4.31	0.000134	0.000137	2.21	0.000240	0.000190	-	0.0000800	0.0000800	-
Vanadium (V)-Total	<0.00050	<0.00050	-	<0.00050	<0.00050	-	0.000760	0.000770	-	0.000660	0.000600	-	0.000200	<0.0001	-	0.000100	0.000200	-
Zinc (Zn)-Total	<0.0030	<0.0030	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-	0.00410	0.00250	-	0.0389	<0.0005	-

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ10			WQ10			WQ11			WQ11			WQ12			WQ13		
Depth	Surface			Surface			Surface			Surface			Surface			Surface		
Date	4/8/2019			8/5/2020			5/9/2016			5/16/2016			3/12/2012			6/11/2012		
LabID	L2256053-1	L2256053-5		VA20B2156-001	VA20B2156-008		L1767107-2	L1767107-6		L1770672-1	L1770672-5							
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Dissolved Metals																		
Aluminum (Al)-Dissolved	0.0380	0.0414	8.56	0.0382	0.0390	2.07	0.293	0.300	2.36	0.223	0.228	2.22	0.0200	0.0210	4.88	0.0260	0.0280	7.41
Antimony (Sb)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	< 0.00005	< 0.00005	-	0.0000600	< 0.00005	-
Arsenic (As)-Dissolved	0.000540	0.000600	10.5	0.000660	0.000630	4.65	0.000190	0.000180	-	0.000200	0.000160	-	0.000100	0.000200	-	0.000400	0.000600	-
Barium (Ba)-Dissolved	0.00633	0.00692	8.91	0.00609	0.00649	6.36	0.00581	0.00581	0	0.00636	0.00649	2.02	0.00555	0.00549	1.09	0.00627	0.00627	0
Beryllium (Be)-Dissolved	<0.00010	<0.00010	-	<0.000020	<0.000020	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-
Bismuth (Bi)-Dissolved	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	-	-	-	-	-	-
Boron (B)-Dissolved	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Cadmium (Cd)-Dissolved	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	< 0.000015	< 0.000015	-	< 0.000015	< 0.000015	-
Calcium (Ca)-Dissolved	9.92	9.96	0.402	8.94	8.99	0.558	6.16	6.15	0.162	7.30	7.22	1.10	6.80	6.80	0	15.2	14.9	1.99
Chromium (Cr)-Dissolved	0.000230	0.000270	-	0.000190	0.000210	-	0.000360	0.000320	-	0.000310	0.000330	-	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	-
Cobalt (Co)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	< 0.00002	< 0.00002	-	0.0000200	0.0000300	-
Copper (Cu)-Dissolved	<0.00050	<0.00050	-	0.000250	0.000220	-	0.000800	0.000770	-	0.000750	0.000760	-	< 0.0001	< 0.0001	-	0.000100	0.000200	-
Iron (Fe)-Dissolved	0.110	0.119	-	0.110	0.108	1.83	0.132	0.133	-	0.0900	0.0900	-	0.134	0.142	5.80	0.0653	0.0749	13.7
Lead (Pb)-Dissolved	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Lithium (Li)-Dissolved	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Magnesium (Mg)-Dissolved	1.92	2.12	9.90	1.67	1.70	1.78	1.22	1.22	0	1.37	1.38	0.727	1.16	1.19	-	3.44	3.93	13.3
Manganese (Mn)-Dissolved	0.00268	0.00289	7.54	0.00414	0.00427	3.09	0.00189	0.00197	4.15	0.00120	0.00129	7.23	0.00749	0.00728	2.84	0.0117	0.0135	14.3
Mercury (Hg)-Dissolved	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	0.0000170	0.0000160	-	0.0000140	0.0000140	-	< 0.000008	< 0.000008	-	< 0.000005	< 0.000005	-
Molybdenum (Mo)-Dissolved	0.000584	0.000559	4.37	0.000567	0.000531	6.56	0.0000880	0.0000960	-	0.000127	0.000128	-	0.000540	0.000560	3.64	0.000470	0.000460	2.15
Nickel (Ni)-Dissolved	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	0.0000700	0.0000700	-	0.000260	0.000290	10.9
Phosphorus (P)-Dissolved	<0.30	<0.30	-	<0.050	<0.050	-	<0.30	<0.30	-	<0.30	<0.30	-	< 0.01	< 0.01	-	< 0.01	< 0.01	-
Potassium (K)-Dissolved	0.436	0.466	6.65	0.359	0.358	-	0.347	0.340	2.04	0.406	0.404	0.494	< 0.5	< 0.5	-	0.600	0.700	-
Selenium (Se)-Dissolved	0.0000580	0.0000730	-	<0.000050	<0.000050	-	<0.000050	0.0000580	-	<0.000050	<0.000050	-	< 0.0006	< 0.0006	-	< 0.0006	< 0.0006	-
Silicon (Si)-Dissolved	5.22	5.59	6.85	5.95	5.91	0.675	6.03	5.97	1.00	6.10	6.12	0.327	3.12	3.13	0.320	4.95	4.78	3.49
Silver (Ag)-Dissolved	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Sodium (Na)-Dissolved	2.60	2.90	-	2.46	2.58	4.76	2.10	2.00	-	2.20	2.20	-	1.90	2.00	-	2.90	3.30	12.9
Strontium (Sr)-Dissolved	0.0681	0.0663	2.68	0.0650	0.0649	0.154	0.0389	0.0389	0	0.0473	0.0470	0.636	0.0537	0.0529	1.50	0.0806	0.0799	0.872
Sulfur (S)-Dissolved	0.620	0.650	-	<0.50	0.520	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium (Tl)-Dissolved	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Tin (Sn)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-
Titanium (Ti)-Dissolved	<0.010	<0.010	-	0.000370	0.000400	-	<0.010	<0.010	-	<0.010	<0.010	-	0.000300	0.000300	-	0.000400	0.000400	-
Uranium (U)-Dissolved	0.000162	0.000170	4.82	0.000136	0.000139	2.18	0.000153	0.000147	4.00	0.000129	0.000130	0.772	0.000150	0.000150	-	0.0000800	0.0000800	-
Vanadium (V)-Dissolved	<0.00050	<0.00050	-	<0.00050	<0.00050	-	0.000630	0.000610	-	0.000590	0.000580	-	< 0.00005	< 0.00005	-	0.000150	0.000220	-
Zinc (Zn)-Dissolved	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-	0.00360	0.00250	36.1	< 0.0005	< 0.0005	-

Notes:
All measurements are mg/L unless otherwise noted.

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ13			WQ13			WQ13			WQ14			WQ14		
Depth	Surface			Surface			Surface			Surface			Surface		
Date	4/12/2017			12/17/2019			11/18/2020			7/18/2011			11/14/2011		
LabID	L1913531-2	L1913531-4		VA19A0791-004	VA19A0791-005		VA20C1281-001	VA20C1281-002							
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Physical Tests															
pH	7.94	7.98	0.503	7.86	7.88	0.254	7.86	7.88	0.254	7.75	7.73	0.258	7.58	7.60	0.264
Conductivity	123	124	0.810	135	136	0.738	126	126	0	126	126	0	181	182	0.551
Hardness (as CaCO ₃)	56.0	61.4	9.20	64.7	64.5	0.310	60.7	57.4	5.59	-	-	-	-	-	-
Hardness, Total (as CaCO ₃)	-	-	-	-	-	-	63.2	62.9	0.476	-	-	-	-	-	-
Total Dissolved Solids	106	95.0	10.9	96.0	94.0	2.11	91.0	91.0	0	-	-	-	-	-	-
Total Suspended Solids	4.90	6.30	-	<3.0	<3.0	-	3.10	7.10	-	29.0	3.00	-	2.00	2.00	-
Turbidity	2.06	2.74	28.3	0.680	0.680	0	1.48	2.10	34.6	1.90	1.30	37.5	1.10	1.10	0
Acidity (as CaCO ₃)	2.00	1.10	-	2.00	2.00	-	3.20	2.70	-	-	-	-	-	-	-
Alkalinity, Total (as CaCO ₃)	64.9	64.8	0.154	67.4	66.9	0.745	61.4	60.8	0.982	62.0	61.0	1.63	88.0	88.0	0
Anions and Nutrients															
Total Kjeldahl Nitrogen	0.372	0.324	13.8	0.231	0.249	-	0.279	0.284	1.78	< 0.08	0.120	-	< 0.08	< 0.08	-
Ammonia, Total (as N)	0.00530	<0.0050	-	0.00820	0.00650	-	0.00690	0.00670	-	0.0200	< 0.02	-	< 0.01	< 0.01	-
Bromide (Br)	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	<0.050	-	-	-	-	-	-	-
Chloride (Cl)	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	0.400	0.500	-	0.600	0.600	0
Fluoride (F)	0.0490	0.0470	-	0.0630	0.0610	-	0.0530	0.0500	-	0.0700	0.0700	-	0.0700	0.0700	-
Nitrate (as N)	<0.0050	<0.0050	-	0.0595	0.0602	1.17	0.120	0.108	10.5	< 0.005	< 0.005	-	0.0110	0.0170	-
Nitrite (as N)	<0.0010	<0.0010	-	0.00160	0.00170	-	0.00350	0.00310	-	< 0.003	< 0.003	-	< 0.003	< 0.003	-
Orthophosphate-Dissolved (as P)	0.00210	0.00190	-	0.0149	0.0150	0.669	0.0160	0.0163	1.86	< 0.003	< 0.003	-	0.00900	0.00700	-
Phosphorus (P)-Total	0.0148	0.0185	22.2	0.0250	0.0234	6.61	0.0272	0.0262	3.75	-	-	-	-	-	-
Phosphorus Total Dissolved	-	-	-	-	-	-	-	-	-	0.00800	0.00900	11.8	< 0.001	< 0.001	-
Sulfate (SO ₄)	3.34	3.41	2.07	3.89	4.00	2.79	3.64	3.58	1.66	1.50	1.70	-	4.40	4.10	7.06
Cyanides															
Cyanide, Total	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0060	-	-	-	-
Cyanide, Weak Acid Diss	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	-	-	-
Thiocyanate	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	0.700	<0.50	-	-	-	-
Organic / Inorganic Carbon															
Dissolved Organic Carbon	8.01	7.45	7.24	7.36	7.48	1.62	9.42	9.62	2.10	12.3	13.6	10.0	4.30	4.20	2.35
Total Organic Carbon	8.09	7.68	5.20	8.01	8.04	0.374	8.96	9.34	4.15	12.6	13.6	7.63	4.30	4.20	2.35

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ13			WQ13			WQ13			WQ14			WQ14		
Depth	Surface			Surface			Surface			Surface			Surface		
Date	4/12/2017			12/17/2019			11/18/2020			7/18/2011			11/14/2011		
LabID	L1913531-2	L1913531-4		VA19A0791-004	VA19A0791-005		VA20C1281-001	VA20C1281-002							
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Total Metals															
Aluminum (Al)-Total	0.0594	0.0607	2.16	0.0302	0.0258	15.7	0.112	0.0538	70.2	0.742	0.0640	168	0.0120	0.00800	-
Antimony (Sb)-Total	<0.00010	<0.00010	0	<0.00010	<0.00010	-	<0.00010	<0.00010	-	< 0.00005	< 0.00005	0	< 0.00005	< 0.00005	0
Arsenic (As)-Total	0.000610	0.000650	6.35	0.000640	0.000610	4.80	0.000670	0.000640	4.58	0.00110	0.000500	75.0	0.000200	0.000200	-
Barium (Ba)-Total	0.00636	0.00667	4.76	0.00735	0.00798	8.22	0.00699	0.00628	10.7	0.0235	0.0113	70.1	0.0112	0.0110	1.80
Beryllium (Be)-Total	<0.00010	<0.00010	-	<0.000020	<0.000020	-	<0.000020	<0.000020	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-
Bismuth (Bi)-Total	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	-	-	-	-	-	-
Boron (B)-Total	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	0.00200	0.00200	-	0.00100	0.00100	-
Cadmium (Cd)-Total	<0.0000050	<0.0000050	-	0.0000113	<0.0000050	-	<0.0000050	<0.0000050	-	0.0000180	< 0.000015	-	< 0.000015	< 0.000015	-
Calcium (Ca)-Total	17.4	18.4	5.59	18.8	19.2	2.11	18.2	18.2	0	20.2	19.2	5.08	25.4	25.4	0
Chromium (Cr)-Total	0.000170	0.000180	-	0.000110	0.000210	-	0.000230	0.000150	-	0.00120	< 0.0003	-	< 0.0003	< 0.0003	-
Cobalt (Co)-Total	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	0.000270	0.000300	-	0.0000300	0.0000300	-
Copper (Cu)-Total	<0.00050	<0.00050	-	0.000580	0.000510	-	<0.00050	<0.00050	-	0.00170	0.000500	109	< 0.0001	< 0.0001	-
Iron (Fe)-Total	0.211	0.212	0.473	0.112	0.108	3.64	0.190	0.132	36.0	1.80	0.318	140	0.217	0.200	8.15
Lead (Pb)-Total	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	0.000190	< 0.00005	-	< 0.00005	< 0.00005	-
Lithium (Li)-Total	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Magnesium (Mg)-Total	4.25	4.19	1.42	4.55	4.56	0.220	4.31	4.20	2.59	3.89	3.76	3.40	5.42	5.57	2.73
Manganese (Mn)-Total	0.0337	0.0344	2.06	0.0203	0.0206	1.47	0.0401	0.0328	20.0	0.155	0.0192	156	0.0241	0.0227	5.98
Mercury (Hg)-Total	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	< 0.000008	< 0.000008	-	< 0.000008	< 0.000008	-
Molybdenum (Mo)-Total	0.000553	0.000554	0.181	0.000572	0.000571	0.175	0.000595	0.000529	11.7	0.000580	0.000490	16.8	0.000520	0.000530	1.90
Nickel (Ni)-Total	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	0.00110	0.000280	-	0.000160	0.000160	-
Phosphorus (P)-Total	<0.30	<0.30	-	<0.050	<0.050	-	<0.050	<0.050	-	0.0700	< 0.02	-	< 0.02	< 0.02	-
Potassium (K)-Total	0.790	0.795	0.631	0.780	0.785	0.639	0.743	0.725	2.45	0.500	< 0.5	-	0.800	0.800	-
Selenium (Se)-Total	0.0000700	0.0000570	-	<0.000050	0.0000750	-	0.0000700	0.0000940	-	< 0.0006	< 0.0006	-	< 0.0006	< 0.0006	-
Silicon (Si)-Total	4.59	4.52	1.54	5.26	5.22	0.763	5.39	5.21	3.40	8.27	7.10	15.2	6.78	6.65	1.94
Silver (Ag)-Total	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Sodium (Na)-Total	3.20	3.20	-	3.62	3.66	1.10	3.25	3.24	0.308	3.10	3.10	0	4.10	4.20	2.41
Strontium (Sr)-Total	0.0863	0.0886	2.63	0.104	0.102	1.94	0.0884	0.0883	0.113	0.106	0.100	5.83	0.118	0.118	0
Sulfur (S)-Total	-	-	-	1.30	1.40	-	1.04	1.13	-	-	-	-	-	-	-
Thallium (Tl)-Total	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Tin (Sn)-Total	<0.00010	<0.00010	-	<0.00010	0.000160	-	<0.00010	<0.00010	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-
Titanium (Ti)-Total	<0.010	<0.010	-	0.00100	0.000830	-	0.00485	0.00194	85.7	0.0168	0.00180	161	0.000600	0.000500	-
Uranium (U)-Total	0.000112	0.000118	5.22	0.0000880	0.0000910	3.35	0.0000930	0.0000870	6.67	0.000170	0.0000700	-	0.000140	0.000150	-
Vanadium (V)-Total	0.000790	0.000800	-	<0.00050	<0.00050	-	0.000630	0.000530	-	0.00240	0.000500	131	0.000100	0.000100	-
Zinc (Zn)-Total	<0.0030	<0.0030	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-	0.00230	< 0.0005	-	0.00140	0.000600	-

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ13			WQ13			WQ13			WQ14			WQ14		
Depth	Surface			Surface			Surface			Surface			Surface		
Date	4/12/2017			12/17/2019			11/18/2020			7/18/2011			11/14/2011		
LabID	L1913531-2	L1913531-4		VA19A0791-004	VA19A0791-005		VA20C1281-001	VA20C1281-002							
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Dissolved Metals															
Aluminum (Al)-Dissolved	0.00730	0.00590	-	0.00900	0.00850	5.71	0.0178	0.0179	0.560	0.0160	0.0150	6.45	0.00300	0.00300	-
Antimony (Sb)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Arsenic (As)-Dissolved	0.000480	0.000500	-	0.000560	0.000540	3.64	0.000560	0.000560	0	0.000400	0.000400	-	0.000200	0.000200	-
Barium (Ba)-Dissolved	0.00607	0.00632	4.04	0.00752	0.00726	3.52	0.00576	0.00563	2.28	0.00964	0.00966	0.207	0.0107	0.0106	0.939
Beryllium (Be)-Dissolved	<0.00010	<0.00010	-	<0.000020	<0.000020	-	<0.000020	<0.000020	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-
Bismuth (Bi)-Dissolved	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	-	-	-	-	-	-
Boron (B)-Dissolved	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	0.00200	0.00200	-	0.00100	0.00100	-
Cadmium (Cd)-Dissolved	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	< 0.000015	< 0.000015	-	< 0.000015	< 0.000015	-
Calcium (Ca)-Dissolved	16.3	17.9	9.36	18.7	18.6	0.536	18.1	16.8	7.45	18.1	18.1	0	25.4	25.4	0
Chromium (Cr)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	0.000100	-	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	-
Cobalt (Co)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	0.0000300	0.0000200	-	< 0.00002	0.0000200	-
Copper (Cu)-Dissolved	<0.00050	<0.00050	-	0.000600	0.000710	-	0.000370	0.000380	-	0.000400	0.000400	-	< 0.0001	< 0.0001	-
Iron (Fe)-Dissolved	0.0950	0.0900	-	0.0650	0.0650	0	0.0620	0.0630	1.60	0.160	0.156	2.53	0.109	0.113	3.60
Lead (Pb)-Dissolved	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Lithium (Li)-Dissolved	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Magnesium (Mg)-Dissolved	3.72	4.04	8.25	4.38	4.41	0.683	3.76	3.78	0.531	3.45	3.44	0.290	5.42	5.57	2.73
Manganese (Mn)-Dissolved	0.0241	0.0251	4.07	0.0147	0.0148	0.678	0.0102	0.0122	17.9	0.00780	0.00777	0.385	0.0176	0.0181	2.80
Mercury (Hg)-Dissolved	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	< 0.000008	< 0.000008	-	< 0.000008	< 0.000008	-
Molybdenum (Mo)-Dissolved	0.000505	0.000567	11.6	0.000557	0.000573	2.83	0.000571	0.000541	5.40	0.000470	0.000490	4.17	0.000510	0.000500	1.98
Nickel (Ni)-Dissolved	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	0.000300	0.000280	6.90	0.000150	0.000160	-
Phosphorus (P)-Dissolved	<0.30	<0.30	-	<0.050	<0.050	-	<0.050	<0.050	-	< 0.01	< 0.01	-	< 0.01	< 0.01	-
Potassium (K)-Dissolved	0.729	0.772	5.73	0.788	0.784	0.509	0.732	0.752	2.70	< 0.5	< 0.5	-	0.800	0.900	-
Selenium (Se)-Dissolved	<0.000050	0.0000540	-	0.0000750	0.0000760	-	0.0000820	0.0000680	-	< 0.0006	< 0.0006	-	< 0.0006	< 0.0006	-
Silicon (Si)-Dissolved	4.25	4.42	3.92	4.97	5.02	1.00	4.98	5.19	4.13	5.91	5.90	0.169	6.78	6.65	1.94
Silver (Ag)-Dissolved	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Sodium (Na)-Dissolved	3.00	3.00	-	3.50	3.40	2.90	3.05	3.06	0.327	2.80	2.80	0	4.10	4.20	2.41
Strontium (Sr)-Dissolved	0.0885	0.0874	1.25	0.0928	0.0961	3.49	0.0908	0.0934	2.82	0.0931	0.0933	0.215	0.118	0.118	0
Sulfur (S)-Dissolved	-	-	-	1.31	1.44	-	0.880	1.03	-	-	-	-	-	-	-
Thallium (Tl)-Dissolved	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Tin (Sn)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-
Titanium (Ti)-Dissolved	<0.010	<0.010	-	<0.00030	<0.00030	-	0.000440	0.000350	-	0.000500	0.000500	-	< 0.0002	< 0.0002	-
Uranium (U)-Dissolved	0.000104	0.000112	7.41	0.0000950	0.0000900	5.41	0.0000790	0.0000800	1.26	0.0000600	0.0000700	-	0.000140	0.000140	-
Vanadium (V)-Dissolved	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	0.000220	0.000220	-	0.000100	0.0000900	-
Zinc (Zn)-Dissolved	<0.0030	<0.0030	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	0.00130	< 0.0005	-	0.00140	0.000600	-

Notes:

All measurements are mg/L unless otherwise noted.

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ14			WQ14			WQ14			WQ14			WQ17			WQ17		
Depth	Surface			Surface			Surface			Surface			Surface			Surface		
Date	1/12/2012			6/4/2012			5/14/2013			6/11/2013			6/18/2012			9/17/2012		
LabID																		
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Physical Tests																		
pH	7.44	7.59	2.00	7.91	7.93	0.253	7.55	7.54	0.133	7.74	7.73	0.129	7.25	7.29	0.550	7.55	7.56	0.132
Conductivity	207	150	31.9	111	111	0	90.0	90.0	0	125	123	1.61	29.0	29.0	0	70.0	70.0	0
Hardness (as CaCO ₃)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardness, Total (as CaCO ₃)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids	-	-	-	-	-	-	68.0	64.0	6.06	112	104	7.41	-	-	-	56.0	48.0	15.4
Total Suspended Solids	3.00	5.00	-	< 2	< 2	-	4.00	< 2	-	< 2	< 2	-	< 2	< 2	-	< 2	< 2	-
Turbidity	3.00	1.50	66.7	3.50	1.80	64.2	1.20	1.20	0	1.40	1.20	15.4	0.900	0.400	-	0.600	0.700	15.4
Acidity (as CaCO ₃)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Total (as CaCO ₃)	102	71.0	35.8	56.0	56.0	0	47.0	48.0	2.11	58.0	59.0	1.71	11.0	11.0	0	34.0	34.0	0
Anions and Nutrients																		
Total Kjeldahl Nitrogen	< 0.08	0.160	-	0.140	0.130	-	0.280	0.190	-	0.170	0.230	-	0.110	0.200	-	< 0.08	0.120	-
Ammonia, Total (as N)	< 0.02	< 0.02	-	< 0.02	< 0.02	-	< 0.02	< 0.02	-	< 0.02	< 0.02	-	< 0.02	< 0.02	-	< 0.02	< 0.02	-
Bromide (Br)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride (Cl)	0.600	0.400	-	0.700	0.800	13.3	0.400	0.400	-	0.900	0.500	57.1	0.200	0.300	-	< 0.1	< 0.1	-
Fluoride (F)	0.0700	0.0700	-	0.0600	0.0600	-	0.0700	0.0700	-	0.0600	0.0500	-	0.0400	0.0400	-	0.0500	0.0500	-
Nitrate (as N)	0.0730	0.0680	7.09	< 0.005	0.00600	-	0.0160	0.00600	-	0.0550	0.0260	71.6	0.00500	0.00900	-	0.0140	0.0120	-
Nitrite (as N)	0.00700	0.00700	-	< 0.003	< 0.003	-	< 0.003	< 0.003	-	< 0.003	< 0.003	-	< 0.003	< 0.003	-	< 0.003	< 0.003	-
Orthophosphate-Dissolved (as P)	0.0140	0.0130	-	< 0.003	< 0.003	-	< 0.003	< 0.003	-	< 0.003	< 0.003	-	< 0.003	< 0.003	-	< 0.003	< 0.003	-
Phosphorus (P)-Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phosphorus Total Dissolved	0.0190	0.0100	62.1	0.00300	0.00500	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-	0.00100	0.00100	-
Sulfate (SO ₄)	4.90	4.40	10.8	2.00	2.20	-	2.20	2.30	-	1.80	1.70	-	0.700	0.700	-	2.50	2.40	-
Cyanides																		
Cyanide, Total	-	-	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Cyanide, Weak Acid Diss	-	-	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Thiocyanate	<0.50	<0.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Organic / Inorganic Carbon																		
Dissolved Organic Carbon	3.80	7.80	69.0	10.3	10.4	0.966	12.4	13.0	4.72	10.0	10.1	0.995	10.1	9.60	5.08	10.9	11.7	7.08
Total Organic Carbon	5.50	9.80	56.2	10.5	10.5	0	12.6	13.0	3.13	10.0	10.2	1.98	10.1	9.60	5.08	10.9	12.0	9.61

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ14			WQ14			WQ14			WQ14			WQ17			WQ17		
Depth	Surface			Surface			Surface			Surface			Surface			Surface		
Date	1/12/2012			6/4/2012			5/14/2013			6/11/2013			6/18/2012			9/17/2012		
LabID																		
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Total Metals																		
Aluminum (Al)-Total	0.0440	0.0510	14.7	0.0200	0.0190	5.13	0.0730	0.0450	47.5	0.0110	0.0150	30.8	0.194	0.217	11.2	0.0290	0.0310	6.67
Antimony (Sb)-Total	< 0.00005	< 0.00005	0	< 0.00005	< 0.00005	0	< 0.00005	< 0.00005	0	< 0.00005	< 0.00005	0	< 0.00005	< 0.00005	0	< 0.00005	< 0.00005	0
Arsenic (As)-Total	0.000200	0.000500	-	0.000200	0.000300	-	0.000200	0.000200	-	< 0.0001	< 0.0001	-	0.000500	0.000600	18.2	0.000400	0.000400	-
Barium (Ba)-Total	0.0153	0.00821	60.3	0.00834	0.00836	0.240	0.00773	0.00720	7.10	0.00938	0.00949	1.17	0.00342	0.00337	1.47	0.00692	0.00631	9.22
Beryllium (Be)-Total	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-
Bismuth (Bi)-Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron (B)-Total	0.00200	0.00100	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-	0.00100	0.00100	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Cadmium (Cd)-Total	< 0.000015	< 0.000015	-	< 0.000015	< 0.000015	-	< 0.000015	< 0.000015	-	< 0.000015	0.0000190	-	< 0.000015	< 0.000015	-	< 0.000015	< 0.000015	-
Calcium (Ca)-Total	31.2	21.9	35.0	14.9	14.8	0.673	13.6	13.6	0	19.4	18.9	2.61	3.20	3.70	14.5	8.00	8.10	1.24
Chromium (Cr)-Total	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	-
Cobalt (Co)-Total	0.0000500	0.0000400	-	0.0000200	< 0.00002	-	0.0000400	0.0000300	-	0.0000400	0.0000200	-	< 0.00002	0.0000300	-	0.0000600	0.0000600	-
Copper (Cu)-Total	< 0.0001	0.000100	-	0.000300	0.000200	-	0.000500	0.000500	0	< 0.0001	< 0.0001	-	0.000400	0.000700	-	0.00110	0.000500	75.0
Iron (Fe)-Total	0.478	0.156	102	0.147	0.141	4.17	0.251	0.180	32.9	0.163	0.162	0.615	0.0930	0.0934	0.429	0.0934	0.0962	2.95
Lead (Pb)-Total	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	0.000460	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Lithium (Li)-Total	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Magnesium (Mg)-Total	6.30	4.74	28.3	3.14	3.10	1.28	2.91	2.88	1.04	3.76	3.75	0.266	0.770	0.870	-	2.28	2.26	-
Manganese (Mn)-Total	0.0968	0.0228	124	0.00909	0.00787	14.4	0.0190	0.0104	58.5	0.00842	0.00863	2.46	0.00379	0.00335	12.3	0.0139	0.0137	1.45
Mercury (Hg)-Total	< 0.000008	< 0.000008	-	< 0.000005	< 0.000005	-	< 0.000005	< 0.000005	-	< 0.000005	< 0.000005	-	< 0.000005	< 0.000005	-	< 0.000005	< 0.000005	-
Molybdenum (Mo)-Total	0.000690	0.000610	12.3	0.000500	0.000460	8.33	0.000400	0.000400	0	0.000450	0.000440	2.25	0.000590	0.000570	3.45	0.00170	0.00191	11.6
Nickel (Ni)-Total	0.000150	0.000210	-	0.000210	0.000230	-	0.000260	0.000260	-	0.000260	0.000270	-	0.000240	0.000250	-	0.000230	0.000250	-
Phosphorus (P)-Total	< 0.02	< 0.02	-	< 0.02	< 0.02	-	< 0.01	< 0.01	-	< 0.01	< 0.01	-	< 0.02	< 0.02	-	< 0.02	< 0.02	-
Potassium (K)-Total	1.00	0.900	-	0.500	0.500	-	0.600	0.600	-	< 0.5	< 0.5	-	< 0.5	< 0.5	-	< 0.5	< 0.5	-
Selenium (Se)-Total	< 0.0006	< 0.0006	-	< 0.0006	< 0.0006	-	< 0.0001	< 0.0001	-	< 0.0001	0.000200	-	< 0.0006	< 0.0006	-	< 0.0006	< 0.0006	-
Silicon (Si)-Total	8.73	6.13	35.0	5.62	5.68	1.06	4.30	4.40	2.30	5.11	5.00	2.18	4.44	4.40	0.905	6.43	6.15	4.45
Silver (Ag)-Total	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Sodium (Na)-Total	4.40	3.60	20.0	2.80	2.80	0	2.40	2.40	-	3.20	3.20	0	1.60	1.90	-	3.00	3.00	0
Strontium (Sr)-Total	0.145	0.108	29.2	0.0776	0.0772	0.517	0.0667	0.0671	0.598	0.0989	0.0990	0.101	0.0217	0.0229	5.38	0.0510	0.0524	2.71
Sulfur (S)-Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium (Tl)-Total	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Tin (Sn)-Total	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-
Titanium (Ti)-Total	0.00130	0.00230	55.6	0.000600	0.000600	-	0.00160	0.00110	37.0	0.000900	0.000700	-	0.00140	0.00140	0	0.000400	0.000400	-
Uranium (U)-Total	0.000300	0.000120	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	0.0000600	0.0000500	-	0.000190	0.000160	-	0.0000700	0.0000700	-
Vanadium (V)-Total	0.000200	0.000300	-	< 0.0001	< 0.0001	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	0.000300	0.000200	-	0.000200	0.000200	-
Zinc (Zn)-Total	0.0142	0.00590	82.6	< 0.0005	< 0.0005	-	< 0.0005	0.00280	-	0.000500	< 0.0005	-	0.00190	0.00370	-	0.00260	0.00100	-

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ14			WQ14			WQ14			WQ14			WQ17			WQ17		
Depth	Surface			Surface			Surface			Surface			Surface			Surface		
Date	1/12/2012			6/4/2012			5/14/2013			6/11/2013			6/18/2012			9/17/2012		
LabID																		
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Dissolved Metals																		
Aluminum (Al)-Dissolved	0.00300	0.00500	-	0.0160	0.0160	0	0.0290	0.0280	3.51	0.00800	0.00900	-	0.170	0.153	10.5	0.0290	0.0260	10.9
Antimony (Sb)-Dissolved	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Arsenic (As)-Dissolved	0.000200	0.000500	-	0.000100	0.000100	-	0.000200	0.000200	-	< 0.0001	< 0.0001	-	0.000500	0.000600	18.2	0.000400	0.000400	-
Barium (Ba)-Dissolved	0.0144	0.00757	62.2	0.00799	0.00805	0.748	0.00666	0.00660	0.905	0.00922	0.00949	2.89	0.00313	0.00330	5.29	0.00650	0.00664	2.13
Beryllium (Be)-Dissolved	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-
Bismuth (Bi)-Dissolved	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron (B)-Dissolved	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Cadmium (Cd)-Dissolved	< 0.000015	< 0.000015	-	< 0.000015	< 0.000015	-	< 0.000015	< 0.000015	-	< 0.000015	0.0000190	-	< 0.000015	< 0.000015	-	< 0.000015	< 0.000015	-
Calcium (Ca)-Dissolved	30.4	20.8	37.5	14.3	14.5	1.39	13.6	13.6	0	18.7	18.9	1.06	3.20	3.70	14.5	8.00	8.10	1.24
Chromium (Cr)-Dissolved	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	-
Cobalt (Co)-Dissolved	0.0000400	0.0000300	-	< 0.00002	< 0.00002	-	0.0000200	0.0000200	-	0.0000200	0.0000200	-	< 0.00002	0.0000300	-	0.0000300	0.0000300	-
Copper (Cu)-Dissolved	< 0.0001	0.000100	-	0.000300	0.000200	-	0.000500	0.000500	0	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	0.000500	0.000500	0
Iron (Fe)-Dissolved	0.147	0.0632	79.7	0.0964	0.0991	2.76	0.110	0.105	4.65	0.123	0.125	1.61	0.0771	0.0593	26.1	0.0808	0.0809	0.124
Lead (Pb)-Dissolved	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	0.000460	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Lithium (Li)-Dissolved	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Magnesium (Mg)-Dissolved	6.30	4.61	31.0	3.01	3.00	0.333	2.91	2.88	1.04	3.76	3.75	0.266	0.760	0.870	-	2.28	2.26	-
Manganese (Mn)-Dissolved	0.0772	0.0185	123	0.00462	0.00460	0.434	0.00257	0.00239	7.26	0.00504	0.00504	0	0.00242	0.00335	32.2	0.0139	0.0137	1.45
Mercury (Hg)-Dissolved	< 0.000008	< 0.000008	-	< 0.000005	< 0.000005	-	< 0.000005	< 0.000005	-	< 0.000005	< 0.000005	-	< 0.000005	< 0.000005	-	< 0.000005	< 0.000005	-
Molybdenum (Mo)-Dissolved	0.000650	0.000540	18.5	0.000440	0.000420	4.65	0.000400	0.000400	0	0.000430	0.000440	2.30	0.000560	0.000240	-	0.00165	0.00191	14.6
Nickel (Ni)-Dissolved	0.000130	0.000200	-	0.000210	0.000230	-	0.000260	0.000260	0	0.000260	0.000270	3.77	0.000240	0.000250	-	0.000230	0.000190	-
Phosphorus (P)-Dissolved	< 0.01	0.0100	-	< 0.01	< 0.01	-	< 0.01	< 0.01	-	< 0.01	< 0.01	-	< 0.01	< 0.01	-	< 0.01	< 0.01	-
Potassium (K)-Dissolved	1.00	0.800	-	0.500	0.500	-	0.600	0.600	-	< 0.5	< 0.5	-	< 0.5	< 0.5	-	< 0.5	< 0.5	-
Selenium (Se)-Dissolved	< 0.0006	< 0.0006	-	< 0.0006	< 0.0006	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0006	< 0.0006	-	< 0.0006	< 0.0006	-
Silicon (Si)-Dissolved	8.61	610	194	5.54	5.68	2.50	4.30	4.40	2.30	4.24	4.19	1.19	4.17	4.40	5.37	6.43	6.15	4.45
Silver (Ag)-Dissolved	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Sodium (Na)-Dissolved	4.30	3.40	23.4	2.80	2.70	3.64	2.30	2.30	-	3.20	3.20	0	1.60	1.90	-	3.00	3.00	0
Strontium (Sr)-Dissolved	0.145	0.106	31.1	0.0745	0.0752	0.935	0.0667	0.0671	0.598	0.0901	0.0908	0.774	0.0211	0.0229	8.18	0.0510	0.0524	2.71
Sulfur (S)-Dissolved	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium (Tl)-Dissolved	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Tin (Sn)-Dissolved	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-
Titanium (Ti)-Dissolved	< 0.0002	0.000200	-	0.000400	0.000300	-	0.000700	0.000600	-	0.000400	0.000300	-	0.000900	0.00100	-	0.000300	0.000300	-
Uranium (U)-Dissolved	0.000280	0.000100	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	0.0000500	0.0000500	-	0.000190	0.000100	-	0.0000700	0.0000600	-
Vanadium (V)-Dissolved	0.0000700	0.000190	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	0.000310	0.000210	-	0.000180	0.000180	-
Zinc (Zn)-Dissolved	0.00900	0.00260	110	< 0.0005	< 0.0005	-	< 0.0005	0.00280	-	0.000500	< 0.0005	-	0.00190	0.00370	-	0.00260	0.00100	-

Notes:
All measurements are mg/L unless otherwise noted.

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ23			WQ26			WQ26			WQ26			WQ26			WQ26		
Depth	meta			Surface			Surface			Surface			Surface			Surface		
Date	2/22/2018			4/27/2016			5/3/2016			8/3/2016			8/23/2016			5/17/2017		
LabID	L2060101-2	L2060101-3		L1762266-3	L1762266-6		L1764648-2	L1764648-3		L1808945-6	L1808945-2		L1819041-8	L1819041-4		L1928943-1	L1928943-5	
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Physical Tests																		
pH	8.12	7.82	3.76	7.28	7.22	0.828	7.46	7.40	0.808	7.66	7.70	0.521	7.75	7.72	0.388	7.43	7.40	0.405
Conductivity	53.4	53.4	0	37.7	39.4	4.41	39.0	31.8	20.3	73.3	73.9	0.815	82.5	80.5	2.45	40.0	39.9	0.250
Hardness (as CaCO ₃)	21.9	22.2	1.36	17.4	18.0	3.39	17.4	14.3	19.6	32.3	31.1	3.79	36.7	36.6	0.273	18.4	18.2	1.09
Hardness, Total (as CaCO ₃)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids	57.0	57.0	-	50.0	48.0	-	51.0	47.0	-	65.0	60.0	8.00	81.0	81.0	0	60.0	60.0	0
Total Suspended Solids	<3.0	<3.0	-	4.60	5.60	-	3.40	<3.0	-	<3.0	<3.0	-	<3.0	<3.0	-	<3.0	3.80	-
Turbidity	0.200	0.190	-	1.32	1.19	10.4	0.750	0.660	12.8	0.380	0.360	-	0.340	0.400	-	0.970	1.09	11.7
Acidity (as CaCO ₃)	2.30	1.90	-	2.80	2.70	-	2.80	2.70	-	2.30	2.20	-	1.70	1.80	-	2.70	2.60	-
Alkalinity, Total (as CaCO ₃)	26.8	26.1	2.65	16.3	16.1	1.23	16.4	12.6	26.2	35.8	35.9	0.279	42.7	42.3	0.941	17.4	20.1	14.4
Anions and Nutrients																		
Total Kjeldahl Nitrogen	0.123	0.123	-	0.369	0.350	5.29	0.255	0.259	1.56	0.164	0.157	-	0.145	0.156	-	0.308	0.293	4.99
Ammonia, Total (as N)	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Bromide (Br)	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	<0.050	-
Chloride (Cl)	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-
Fluoride (F)	0.0230	0.0230	-	0.0270	0.0280	-	0.0290	0.0260	-	0.0330	0.0330	-	0.0400	0.0410	-	0.0260	0.0260	-
Nitrate (as N)	0.0510	0.0526	3.09	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Nitrite (as N)	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-
Orthophosphate-Dissolved (as P)	0.00750	0.00720	4.08	0.00140	0.00100	-	0.00210	0.00190	-	0.00210	0.00270	-	0.00340	0.00350	-	0.00230	0.00180	-
Phosphorus (P)-Total	0.0154	0.0154	0	0.0172	0.0178	3.43	0.0122	0.0102	17.9	0.00610	0.00620	-	0.00690	0.00680	-	0.0128	0.0119	7.29
Phosphorus Total Dissolved	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfate (SO ₄)	1.63	1.62	0.615	1.04	1.02	-	1.09	1.01	-	1.16	1.16	-	1.52	1.52	0	0.750	0.740	-
Cyanides																		
Cyanide, Total	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Cyanide, Weak Acid Diss	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Thiocyanate	<0.50	<0.50	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.50	<0.50	-
Organic / Inorganic Carbon																		
Dissolved Organic Carbon	3.17	3.14	0.951	7.69	14.0	58.2	11.4	11.5	0.873	6.42	6.72	4.57	5.20	5.12	1.55	13.5	14.0	3.64
Total Organic Carbon	3.10	3.42	9.82	7.90	14.5	58.9	11.6	11.8	1.71	6.42	7.15	10.8	5.57	5.18	7.26	13.6	13.9	2.18

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ23			WQ26			WQ26			WQ26			WQ26			WQ26		
Depth	meta			Surface			Surface			Surface			Surface			Surface		
Date	2/22/2018			4/27/2016			5/3/2016			8/3/2016			8/23/2016			5/17/2017		
LabID	L2060101-2	L2060101-3		L1762266-3	L1762266-6		L1764648-2	L1764648-3		L1808945-6	L1808945-2		L1819041-8	L1819041-4		L1928943-1	L1928943-5	
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Total Metals																		
Aluminum (Al)-Total	0.00430	0.00470	-	0.305	0.327	6.96	0.196	0.207	5.46	0.0652	0.0692	5.95	0.0397	0.0407	2.49	0.261	0.260	0.384
Antimony (Sb)-Total	<0.00010	<0.00010	0	<0.00010	<0.00010	0	<0.00010	<0.00010	0	<0.00010	<0.00010	0	<0.00010	<0.00010	0	<0.00010	<0.00010	0
Arsenic (As)-Total	0.000880	0.000810	8.28	0.000570	0.000580	1.74	0.000430	0.000490	-	0.000680	0.000610	10.9	0.000710	0.000710	0	0.000480	0.000490	-
Barium (Ba)-Total	0.00299	0.00324	8.03	0.00616	0.00700	12.8	0.00491	0.00478	2.68	0.00737	0.00732	0.681	0.00793	0.00791	0.253	0.00650	0.00623	4.24
Beryllium (Be)-Total	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Bismuth (Bi)-Total	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Boron (B)-Total	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-
Cadmium (Cd)-Total	<0.0000050	<0.0000050	-	0.00000500	0.00000800	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	0.00000800	<0.0000050	-
Calcium (Ca)-Total	6.54	6.78	3.60	5.32	5.58	4.77	5.45	4.28	24.0	9.43	9.17	2.80	11.2	11.1	0.897	5.20	5.26	1.15
Chromium (Cr)-Total	<0.00010	<0.00010	-	0.000420	0.000550	-	0.000370	0.000300	-	0.000200	0.000230	-	0.000500	0.000230	-	0.000340	0.000330	-
Cobalt (Co)-Total	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Copper (Cu)-Total	<0.00050	<0.00050	-	0.000840	0.000900	-	0.000610	0.000740	-	<0.00050	0.000510	-	<0.00050	<0.00050	-	0.000690	0.000700	-
Iron (Fe)-Total	0.0640	0.0440	-	0.247	0.253	2.40	0.168	0.142	-	0.0940	0.0900	-	0.0930	0.0940	-	0.229	0.232	1.30
Lead (Pb)-Total	<0.000050	<0.000050	-	0.0000890	0.0000980	-	0.0000540	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	0.0000550	0.0000520	-
Lithium (Li)-Total	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-
Magnesium (Mg)-Total	1.19	1.19	0	1.06	1.09	2.79	0.921	0.820	11.6	2.04	2.00	1.98	2.40	2.38	0.837	1.16	1.15	0.866
Manganese (Mn)-Total	0.00230	0.00254	9.92	0.0142	0.0138	2.86	0.00846	0.00514	48.8	0.00659	0.00616	6.75	0.00503	0.00528	4.85	0.0110	0.0110	0
Mercury (Hg)-Total	<0.0000050	<0.0000050	-	0.0000110	0.0000110	-	0.0000100	0.0000110	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	0.0000100	0.0000130	-
Molybdenum (Mo)-Total	0.000848	0.000790	7.08	0.000245	0.000263	-	0.000289	0.000247	-	0.000533	0.000521	2.28	0.000675	0.000761	12.0	0.000272	0.000389	35.4
Nickel (Ni)-Total	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Phosphorus (P)-Total	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-
Potassium (K)-Total	0.337	0.347	2.92	0.377	0.391	3.65	0.291	0.307	5.35	0.452	0.434	4.06	0.505	0.503	0.397	0.452	0.426	5.92
Selenium (Se)-Total	<0.000050	<0.000050	-	0.0000550	0.0000520	-	<0.000050	<0.000050	-	<0.000050	0.0000510	-	<0.000050	0.0000620	-	<0.000050	0.0000500	-
Silicon (Si)-Total	4.26	4.24	0.471	4.93	5.05	2.40	5.06	5.09	0.591	6.35	6.17	2.88	6.17	6.22	0.807	5.17	5.25	1.54
Silver (Ag)-Total	<0.000010	<0.000010	-	0.0000100	0.0000100	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	0.0000110	<0.000010	-
Sodium (Na)-Total	2.30	2.40	-	<2.0	<2.0	-	<2.0	<2.0	-	2.60	2.60	-	3.10	3.10	-	<2.0	<2.0	-
Strontium (Sr)-Total	0.0476	0.0470	1.27	0.0353	0.0371	4.97	0.0372	0.0321	14.7	0.0656	0.0632	3.73	0.0753	0.0755	0.265	0.0393	0.0355	10.2
Sulfur (S)-Total	<0.50	<0.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium (Tl)-Total	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Tin (Sn)-Total	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Titanium (Ti)-Total	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-
Uranium (U)-Total	0.000119	0.000112	6.06	0.000197	0.000201	2.01	0.000201	0.000188	6.68	0.000131	0.000129	1.54	0.000122	0.000122	0	0.000147	0.000141	4.17
Vanadium (V)-Total	<0.00050	<0.00050	-	0.000710	0.000780	-	0.000590	0.000530	-	0.000560	0.000560	-	0.000660	0.000650	-	0.000580	0.000640	-
Zinc (Zn)-Total	<0.0030	<0.0030	-	<0.0030	<0.0030	-	<0.0030	0.00340	-	<0.0030	<0.0030	-	0.00340	<0.0030	-	<0.0030	<0.0030	-

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ23			WQ26			WQ26			WQ26			WQ26			WQ26		
Depth	meta			Surface			Surface			Surface			Surface			Surface		
Date	2/22/2018			4/27/2016			5/3/2016			8/3/2016			8/23/2016			5/17/2017		
LabID	L2060101-2	L2060101-3		L1762266-3	L1762266-6		L1764648-2	L1764648-3		L1808945-6	L1808945-2		L1819041-8	L1819041-4		L1928943-1	L1928943-5	
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Dissolved Metals																		
Aluminum (Al)-Dissolved	0.00490	0.00420	-	0.143	0.169	16.7	0.135	0.160	16.9	0.0453	0.0439	3.14	0.0278	0.0264	5.17	0.166	0.169	1.79
Antimony (Sb)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Arsenic (As)-Dissolved	0.000780	0.000750	3.92	0.000400	0.000460	-	0.000440	0.000430	-	0.000610	0.000580	5.04	0.000630	0.000610	3.23	0.000380	0.000400	-
Barium (Ba)-Dissolved	0.00257	0.00265	3.07	0.00437	0.00496	12.6	0.00477	0.00461	3.41	0.00737	0.00695	5.87	0.00741	0.00765	3.19	0.00519	0.00517	0.386
Beryllium (Be)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Bismuth (Bi)-Dissolved	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Boron (B)-Dissolved	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-
Cadmium (Cd)-Dissolved	<0.0000050	<0.0000050	-	0.00000500	0.00000600	-	0.00000800	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	0.00000600	0.00000600	-
Calcium (Ca)-Dissolved	6.82	6.95	1.89	5.27	5.40	2.44	5.25	4.40	17.6	9.59	9.30	3.07	11.0	10.9	0.913	5.48	5.42	1.10
Chromium (Cr)-Dissolved	<0.00010	<0.00010	-	0.000240	0.000250	-	0.000300	0.000230	-	0.000180	0.000170	-	0.000170	0.000180	-	0.000230	0.000200	-
Cobalt (Co)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Copper (Cu)-Dissolved	<0.00050	<0.00050	-	0.000610	0.000670	-	0.000560	0.000530	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	0.000630	0.000590	-
Iron (Fe)-Dissolved	<0.030	<0.030	-	0.108	0.107	-	0.0930	0.0970	-	0.0660	0.0680	-	0.0630	0.0660	-	0.136	0.134	-
Lead (Pb)-Dissolved	<0.000050	<0.000050	-	<0.000050	<0.000050	-	0.000224	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Lithium (Li)-Dissolved	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-
Magnesium (Mg)-Dissolved	1.19	1.18	0.844	1.02	1.08	5.71	1.05	0.809	25.9	2.02	1.91	5.60	2.26	2.28	0.881	1.14	1.14	0
Manganese (Mn)-Dissolved	0.000630	0.000580	8.26	0.00241	0.00270	11.4	0.00206	0.00166	21.5	0.00392	0.00442	12.0	0.00315	0.00316	0.317	0.00260	0.00262	0.766
Mercury (Hg)-Dissolved	0.00000520	<0.0000050	-	0.0000110	0.0000100	-	0.00000900	0.0000100	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	0.00000900	0.00000900	-
Molybdenum (Mo)-Dissolved	0.000702	0.000693	1.29	0.000236	0.000217	-	0.000255	0.000212	-	0.000454	0.000445	2.00	0.000556	0.000565	1.61	0.000210	0.000206	-
Nickel (Ni)-Dissolved	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Phosphorus (P)-Dissolved	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-
Potassium (K)-Dissolved	0.339	0.342	0.881	0.357	0.372	4.12	0.333	0.278	18.0	0.457	0.442	3.34	0.487	0.493	1.22	0.433	0.424	2.10
Selenium (Se)-Dissolved	<0.000050	<0.000050	-	0.0000540	<0.000050	-	<0.000050	0.0000560	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Silicon (Si)-Dissolved	4.33	4.37	0.920	5.02	4.96	1.20	5.28	5.13	2.88	6.32	6.25	1.11	5.95	5.95	0	4.74	4.61	2.78
Silver (Ag)-Dissolved	<0.000010	<0.000010	-	<0.000010	<0.000010	-	0.0000110	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Sodium (Na)-Dissolved	2.30	2.40	-	<2.0	<2.0	-	<2.0	<2.0	-	2.60	2.60	-	2.90	3.00	-	<2.0	<2.0	-
Strontium (Sr)-Dissolved	0.0454	0.0457	0.659	0.0350	0.0351	0.285	0.0356	0.0321	10.3	0.0661	0.0612	7.70	0.0721	0.0719	0.278	0.0369	0.0362	1.92
Sulfur (S)-Dissolved	<0.50	<0.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium (Tl)-Dissolved	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Tin (Sn)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Titanium (Ti)-Dissolved	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-
Uranium (U)-Dissolved	0.000115	0.000110	4.44	0.000157	0.000148	5.90	0.000176	0.000181	2.80	0.000121	0.000114	5.96	0.000108	0.000110	1.83	0.000123	0.000121	1.64
Vanadium (V)-Dissolved	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	0.000500	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Zinc (Zn)-Dissolved	<0.0030	<0.0030	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-

Notes:

All measurements are mg/L unless otherwise noted.

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ26			WQ26			WQ26			WQ26			WQ26			WQ26		
Depth	Surface			Surface			Surface			Surface			Surface			Surface		
Date	5/30/2017			6/7/2017			8/7/2018			9/7/2018			3/13/2019			9/16/2019		
LabID	L1935151-1	L1935151-5		L1939712-3	L1939712-4		L2143640-3	L2143640-4		L2160840-1	L2160840-4		L2244756-2	L2244756-5		L2349445-5	L2349445-7	
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Physical Tests																		
pH	7.26	7.25	0.138	7.44	7.42	0.269	7.94	7.94	0	7.97	8.01	0.501	7.88	7.89	0.127	7.79	7.79	0
Conductivity	28.0	28.0	0	39.6	39.7	0.252	92.3	92.9	0.648	115	119	3.42	117	118	0.851	81.1	79.8	1.62
Hardness (as CaCO ₃)	12.8	12.8	0	17.6	17.5	0.570	40.6	40.3	0.742	51.3	52.4	2.12	50.9	52.1	2.33	34.7	34.7	0
Hardness, Total (as CaCO ₃)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids	45.0	44.0	-	46.0	48.0	-	75.0	77.0	2.63	82.0	86.0	4.76	79.0	77.0	2.56	72.0	69.0	4.26
Total Suspended Solids	4.40	3.20	-	3.50	4.70	-	<3.0	<3.0	-	<3.0	<3.0	-	<3.0	<3.0	-	<3.0	3.10	-
Turbidity	1.57	1.56	0.639	0.630	0.630	0	0.310	0.280	-	0.290	0.310	-	0.200	0.160	-	0.370	0.440	-
Acidity (as CaCO ₃)	2.70	2.70	-	2.30	2.40	-	1.40	1.40	-	1.20	1.50	-	1.10	1.10	-	1.90	2.10	-
Alkalinity, Total (as CaCO ₃)	11.1	11.3	1.79	17.7	17.6	0.567	50.3	49.7	1.20	57.4	60.5	5.26	58.7	58.3	0.684	39.9	40.8	2.23
Anions and Nutrients																		
Total Kjeldahl Nitrogen	0.332	0.340	2.38	0.226	0.237	-	0.100	0.108	-	0.0510	0.0560	-	<0.050	<0.050	-	0.0970	0.135	-
Ammonia, Total (as N)	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	0.00710	<0.0050	-	0.00670	0.00730	-
Bromide (Br)	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	<0.050	-
Chloride (Cl)	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-
Fluoride (F)	0.0210	0.0220	-	0.0270	0.0290	-	0.0380	0.0380	-	0.0460	0.0460	-	0.0500	0.0470	-	0.0350	0.0360	-
Nitrate (as N)	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	0.0429	0.0886	69.5	<0.0050	<0.0050	-
Nitrite (as N)	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-
Orthophosphate-Dissolved (as P)	0.00130	0.00150	-	0.00100	0.00140	-	0.00420	0.00350	-	0.00500	0.00500	0	0.00510	0.00490	-	0.00180	0.00180	-
Phosphorus (P)-Total	0.0250	0.0160	43.9	0.00670	0.00790	-	0.00770	0.00770	-	0.00740	0.00750	-	0.00720	0.00680	-	0.00550	0.00540	-
Phosphorus Total Dissolved	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfate (SO ₄)	0.610	0.620	-	0.740	0.740	-	1.89	1.89	0	2.29	2.26	1.32	2.74	2.75	0.364	1.51	1.52	0.660
Cyanides																		
Cyanide, Total	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Cyanide, Weak Acid Diss	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Thiocyanate	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-
Organic / Inorganic Carbon																		
Dissolved Organic Carbon	12.2	12.1	0.823	9.94	10.1	1.60	4.35	4.29	1.39	2.42	2.35	-	1.99	1.79	-	5.22	5.06	3.11
Total Organic Carbon	12.6	12.2	3.23	11.1	11.0	0.905	4.51	4.39	2.70	2.44	2.46	-	1.76	1.75	-	5.09	5.10	0.196

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ26			WQ26			WQ26			WQ26			WQ26			WQ26		
Depth	Surface			Surface			Surface			Surface			Surface			Surface		
Date	5/30/2017			6/7/2017			8/7/2018			9/7/2018			3/13/2019			9/16/2019		
LabID	L1935151-1	L1935151-5		L1939712-3	L1939712-4		L2143640-3	L2143640-4		L2160840-1	L2160840-4		L2244756-2	L2244756-5		L2349445-5	L2349445-7	
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Total Metals																		
Aluminum (Al)-Total	0.311	0.323	3.79	0.182	0.194	6.38	0.0263	0.0254	3.48	0.0134	0.0128	-	0.0110	0.0116	-	0.0406	0.0413	1.71
Antimony (Sb)-Total	<0.00010	<0.00010	0	<0.00010	<0.00010	0	<0.00010	<0.00010	0	<0.00010	<0.00010	0	<0.00010	<0.00010	0	<0.00010	<0.00010	0
Arsenic (As)-Total	0.000550	0.000530	3.70	0.000540	0.000520	3.77	0.000710	0.000700	1.42	0.000710	0.000650	8.82	0.000500	0.000550	9.52	0.000630	0.000630	0
Barium (Ba)-Total	0.00542	0.00545	0.552	0.00530	0.00519	2.10	0.00783	0.00803	2.52	0.00966	0.0101	4.45	0.00780	0.00806	3.28	0.00709	0.00715	0.843
Beryllium (Be)-Total	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Bismuth (Bi)-Total	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Boron (B)-Total	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-
Cadmium (Cd)-Total	0.0000100	0.0000100	-	0.00000500	0.00000600	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-
Calcium (Ca)-Total	3.82	3.80	0.525	5.20	5.23	0.575	11.7	11.7	0	15.2	14.9	1.99	15.5	15.7	1.28	10.1	10.0	0.995
Chromium (Cr)-Total	0.000370	0.000360	-	0.000320	0.000340	-	0.000190	0.000200	-	0.000170	0.000210	-	0.000230	0.000360	-	0.000210	0.000210	-
Cobalt (Co)-Total	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Copper (Cu)-Total	0.00123	0.000700	-	0.000560	0.000560	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Iron (Fe)-Total	0.230	0.237	3.00	0.156	0.163	4.39	0.0450	0.0460	-	<0.030	0.0380	-	<0.030	<0.030	-	0.0840	0.0840	-
Lead (Pb)-Total	0.0000900	0.0000770	-	<0.000050	0.000137	-	<0.000050	<0.000050	-	<0.000050	0.0000540	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Lithium (Li)-Total	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-
Magnesium (Mg)-Total	0.730	0.730	0	1.08	1.07	0.930	2.53	2.57	1.57	3.29	3.38	2.70	3.40	3.50	2.90	2.22	2.20	0.905
Manganese (Mn)-Total	0.0159	0.0164	3.10	0.00935	0.00939	0.427	0.00591	0.00579	2.05	0.00400	0.00405	1.24	0.00342	0.00367	7.05	0.00632	0.00600	5.19
Mercury (Hg)-Total	0.00000900	0.00000900	-	0.00000600	0.00000700	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-
Molybdenum (Mo)-Total	0.000223	0.000222	-	0.000289	0.000292	1.03	0.000693	0.000708	2.14	0.000881	0.000849	3.70	0.000815	0.000869	6.41	0.000576	0.000602	4.41
Nickel (Ni)-Total	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Phosphorus (P)-Total	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-
Potassium (K)-Total	0.323	0.322	0.310	0.335	0.339	1.19	0.555	0.578	4.06	0.597	0.579	3.06	0.491	0.500	1.82	0.458	0.445	2.88
Selenium (Se)-Total	<0.000050	<0.000050	-	0.0000590	0.0000600	-	0.0000600	0.0000760	-	<0.000050	<0.000050	-	<0.000050	0.0000800	-	<0.000050	<0.000050	-
Silicon (Si)-Total	4.43	4.55	2.67	5.48	5.07	7.77	5.98	6.17	3.13	6.23	6.20	0.483	6.07	6.18	1.80	6.33	6.36	0.473
Silver (Ag)-Total	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Sodium (Na)-Total	<2.0	<2.0	-	<2.0	<2.0	-	3.20	3.20	-	3.70	3.70	-	3.50	3.50	-	2.90	3.00	-
Strontium (Sr)-Total	0.0276	0.0273	1.09	0.0369	0.0362	1.92	0.0775	0.0775	0	0.0963	0.0972	0.930	0.102	0.105	2.90	0.0720	0.0697	3.25
Sulfur (S)-Total	-	-	-	-	-	-	0.690	0.790	-	0.720	0.770	-	0.680	0.620	-	<0.50	<0.50	-
Thallium (Tl)-Total	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Tin (Sn)-Total	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Titanium (Ti)-Total	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-
Uranium (U)-Total	0.000208	0.000213	2.38	0.000195	0.000190	2.60	0.000131	0.000130	0.766	0.000181	0.000181	0	0.000261	0.000274	4.86	0.000115	0.000115	0
Vanadium (V)-Total	0.000660	0.000670	-	0.000790	0.000820	-	0.000640	0.000690	-	0.000830	0.000700	-	<0.00050	<0.00050	-	0.000520	0.000530	-
Zinc (Zn)-Total	0.00500	<0.0030	-	0.00310	<0.0030	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ26			WQ26			WQ26			WQ26			WQ26			WQ26		
Depth	Surface			Surface			Surface			Surface			Surface			Surface		
Date	5/30/2017			6/7/2017			8/7/2018			9/7/2018			3/13/2019			9/16/2019		
LabID	L1935151-1	L1935151-5		L1939712-3	L1939712-4		L2143640-3	L2143640-4		L2160840-1	L2160840-4		L2244756-2	L2244756-5		L2349445-5	L2349445-7	
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Dissolved Metals																		
Aluminum (Al)-Dissolved	0.171	0.175	2.31	0.115	0.120	4.26	0.0180	0.0176	2.25	0.00880	0.0102	-	0.00690	0.00720	-	0.0288	0.0292	1.38
Antimony (Sb)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Arsenic (As)-Dissolved	0.000470	0.000450	-	0.000430	0.000450	-	0.000650	0.000630	3.12	0.000630	0.000620	1.60	0.000500	0.000470	-	0.000550	0.000580	5.31
Barium (Ba)-Dissolved	0.00423	0.00411	2.88	0.00477	0.00482	1.04	0.00799	0.00796	0.376	0.00941	0.00941	0	0.00802	0.00806	0.498	0.00649	0.00660	1.68
Beryllium (Be)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Bismuth (Bi)-Dissolved	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Boron (B)-Dissolved	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-
Cadmium (Cd)-Dissolved	0.00000800	0.00000700	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-
Calcium (Ca)-Dissolved	3.92	3.90	0.512	5.24	5.22	0.382	12.2	12.1	0.823	15.4	15.8	2.56	14.7	15.2	3.34	10.2	10.2	0
Chromium (Cr)-Dissolved	0.000220	0.000220	-	0.000210	0.000210	-	0.000150	0.000170	-	0.000720	0.000170	-	0.000150	0.000170	-	0.000180	0.000180	-
Cobalt (Co)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Copper (Cu)-Dissolved	0.000580	0.000600	-	<0.00050	0.000520	-	<0.00050	<0.00050	-	0.000690	<0.00050	-	<0.00050	<0.00050	-	<0.00050	0.00423	-
Iron (Fe)-Dissolved	0.0990	0.0990	-	0.0760	0.0790	-	0.0320	0.0330	-	0.0300	<0.030	-	<0.030	<0.030	-	0.0640	0.0650	-
Lead (Pb)-Dissolved	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Lithium (Li)-Dissolved	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-
Magnesium (Mg)-Dissolved	0.723	0.736	1.78	1.09	1.08	0.922	2.48	2.46	0.810	3.11	3.15	1.28	3.41	3.42	0.293	2.22	2.25	1.34
Manganese (Mn)-Dissolved	0.00272	0.00281	3.25	0.00279	0.00280	0.358	0.00350	0.00368	5.01	0.00336	0.00315	6.45	0.00266	0.00268	0.749	0.00389	0.00398	2.29
Mercury (Hg)-Dissolved	0.00000900	0.00000800	-	0.00000600	0.00000600	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-
Molybdenum (Mo)-Dissolved	0.000201	0.000196	-	0.000270	0.000248	-	0.000631	0.000704	10.9	0.000918	0.000878	4.45	0.000809	0.000790	2.38	0.000534	0.000540	1.12
Nickel (Ni)-Dissolved	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Phosphorus (P)-Dissolved	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-
Potassium (K)-Dissolved	0.336	0.341	1.48	0.324	0.330	1.83	0.555	0.560	0.897	0.594	0.617	3.80	0.503	0.500	0.598	0.425	0.435	2.33
Selenium (Se)-Dissolved	<0.000050	<0.000050	-	<0.000050	<0.000050	-	0.0000710	<0.000050	-	<0.000050	<0.000050	-	0.0000640	0.0000830	-	<0.000050	<0.000050	-
Silicon (Si)-Dissolved	3.98	4.07	2.24	4.74	4.87	2.71	5.98	5.99	0.167	6.05	6.04	0.165	6.18	6.06	1.96	5.99	5.95	0.670
Silver (Ag)-Dissolved	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Sodium (Na)-Dissolved	<2.0	<2.0	-	<2.0	<2.0	-	3.10	3.10	-	3.70	3.70	-	3.50	3.40	-	2.90	2.80	-
Strontium (Sr)-Dissolved	0.0271	0.0270	0.370	0.0366	0.0365	0.274	0.0778	0.0786	1.02	0.0948	0.0940	0.847	0.102	0.103	0.976	0.0681	0.0691	1.46
Sulfur (S)-Dissolved	-	-	-	-	-	-	<0.50	<0.50	-	0.800	0.510	-	0.910	0.820	-	0.720	0.710	-
Thallium (Tl)-Dissolved	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Tin (Sn)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Titanium (Ti)-Dissolved	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-
Uranium (U)-Dissolved	0.000170	0.000171	0.587	0.000156	0.000157	0.639	0.000128	0.000122	4.80	0.000192	0.000187	2.64	0.000253	0.000259	2.34	0.000114	0.000111	2.67
Vanadium (V)-Dissolved	<0.00050	<0.00050	-	<0.00050	<0.00050	-	0.000510	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Zinc (Zn)-Dissolved	<0.0030	<0.0030	-	<0.0030	<0.0030	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	0.00130	-	<0.0010	<0.0010	-

Notes:
All measurements are mg/L unless otherwise noted.

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ26			WQ27			WQ27			WQ27			WQ27			WQ27		
Depth	Surface			Surface			Surface			Surface			Surface			Surface		
Date	10/22/2019			6/22/2016			9/13/2017			5/23/2018			6/4/2018			8/28/2018		
LabID	L2371052-4	L2371052-6		L1788643-3	L1788643-6		L1991279-6	L1991279-2		L2100419-1	L2100419-3		L2106738-1	L2106738-3		L2156026-2	L2156026-4	
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Physical Tests																		
pH	7.62	7.62	0	7.62	7.63	0.131	7.85	7.90	0.635	7.34	7.33	0.136	7.44	7.51	0.936	7.91	7.86	0.634
Conductivity	58.9	60.3	2.35	38.3	38.6	0.780	99.6	98.1	1.52	25.5	25.6	0.391	33.7	34.1	1.18	101	101	0
Hardness (as CaCO3)	26.7	26.3	1.51	16.7	17.0	1.78	44.1	44.3	0.452	10.6	10.3	2.87	14.3	14.3	0	42.1	43.2	2.58
Hardness, Total (as CaCO3)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids	41.0	61.0	-	62.0	57.0	8.40	81.0	89.0	9.41	44.0	43.0	-	48.0	47.0	-	70.0	73.0	4.20
Total Suspended Solids	<3.0	<3.0	-	<3.0	<3.0	-	4.50	<3.0	-	4.30	3.30	-	3.80	<3.0	-	<3.0	<3.0	-
Turbidity	1.02	1.33	26.4	0.520	0.510	1.94	0.280	0.290	-	0.940	1.15	20.1	0.750	0.890	17.1	0.140	0.220	-
Acidity (as CaCO3)	2.40	2.30	-	2.50	2.30	-	1.60	2.10	-	3.30	3.10	-	2.20	2.20	-	1.10	1.10	-
Alkalinity, Total (as CaCO3)	30.7	30.6	0.326	16.3	16.3	0	52.4	51.7	1.34	10.3	10.3	0	15.3	15.4	0.651	51.5	51.0	0.976
Anions and Nutrients																		
Total Kjeldahl Nitrogen	0.183	0.170	-	0.155	0.165	-	0.0710	0.0680	-	0.211	0.231	-	0.173	0.158	-	0.0710	0.0560	-
Ammonia, Total (as N)	0.00570	0.00630	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Bromide (Br)	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	<0.050	-
Chloride (Cl)	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-
Fluoride (F)	0.0380	0.0370	-	0.0240	0.0240	-	0.0400	0.0410	-	0.0230	0.0250	-	0.0300	0.0300	-	0.0390	0.0390	-
Nitrate (as N)	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	0.00580	0.00580	-
Nitrite (as N)	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-
Orthophosphate-Dissolved (as P)	0.00290	0.00300	-	0.00260	0.00280	-	0.00330	0.00330	-	0.00240	0.00230	-	0.00180	0.00240	-	0.00530	0.00570	7.27
Phosphorus (P)-Total	0.0117	0.0117	0	0.00630	0.00730	-	0.00500	0.00500	-	0.0112	0.0110	1.80	0.00760	0.00930	-	0.00820	0.00770	-
Phosphorus Total Dissolved	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfate (SO ₄)	1.36	1.34	-	0.830	0.830	-	2.83	2.82	0.354	0.590	0.580	-	0.850	0.840	-	2.69	2.69	0
Cyanides																		
Cyanide, Total	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Cyanide, Weak Acid Diss	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Thiocyanate	<0.50	<0.50	-	-	-	-	<0.50	<0.50	-	0.830	0.850	-	0.800	0.830	-	<0.50	0.790	-
Organic / Inorganic Carbon																		
Dissolved Organic Carbon	7.66	8.15	6.20	10.0	9.68	3.25	2.85	2.97	4.12	10.3	10.5	1.92	8.97	8.65	3.63	2.58	2.49	-
Total Organic Carbon	8.09	7.89	2.50	9.99	9.55	4.50	2.92	2.91	0.343	10.5	10.4	0.957	9.03	8.68	3.95	2.58	2.51	2.75

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ26			WQ27			WQ27			WQ27			WQ27			WQ27		
Depth	Surface			Surface			Surface			Surface			Surface			Surface		
Date	10/22/2019			6/22/2016			9/13/2017			5/23/2018			6/4/2018			8/28/2018		
LabID	L2371052-4	L2371052-6		L1788643-3	L1788643-6		L1991279-6	L1991279-2		L2100419-1	L2100419-3		L2106738-1	L2106738-3		L2156026-2	L2156026-4	
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Total Metals																		
Aluminum (Al)-Total	0.123	0.101	19.6	0.138	0.138	0	0.0172	0.0168	2.35	0.249	0.251	0.800	0.137	0.130	5.24	0.0213	0.0207	2.86
Antimony (Sb)-Total	<0.00010	<0.00010	0	<0.00010	<0.00010	0	<0.00010	<0.00010	0	<0.00010	<0.00010	0	<0.00010	<0.00010	0	<0.00010	<0.00010	0
Arsenic (As)-Total	0.000530	0.000570	7.27	0.000590	0.000560	5.22	0.000590	0.000610	3.33	0.000540	0.000510	5.71	0.000460	0.000460	-	0.000650	0.000660	1.53
Barium (Ba)-Total	0.00566	0.00570	0.704	0.00485	0.00501	3.25	0.00858	0.00887	3.32	0.00524	0.00543	3.56	0.00444	0.00440	0.905	0.00912	0.00911	0.110
Beryllium (Be)-Total	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Bismuth (Bi)-Total	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Boron (B)-Total	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-
Cadmium (Cd)-Total	0.00000580	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	0.00000870	0.00000730	-	0.00000570	0.00000550	-	<0.0000050	<0.0000050	-
Calcium (Ca)-Total	8.01	7.93	1.00	5.27	5.37	1.88	13.5	13.6	0.738	3.09	3.14	1.61	4.67	4.56	2.38	13.3	12.9	3.05
Chromium (Cr)-Total	0.000280	0.000260	-	0.000290	0.000260	-	0.000250	0.000250	-	0.000380	0.000430	-	0.000260	0.000270	-	0.000190	0.000190	-
Cobalt (Co)-Total	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Copper (Cu)-Total	0.000590	0.000560	-	0.000520	0.000560	-	<0.00050	<0.00050	-	0.000590	0.000620	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Iron (Fe)-Total	0.142	0.129	-	0.112	0.116	-	0.0740	0.0720	-	0.166	0.158	4.94	0.0930	0.0900	-	0.0400	0.0400	-
Lead (Pb)-Total	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	0.0000700	0.0000540	-	<0.000050	0.0000540	-	<0.000050	<0.000050	-
Lithium (Li)-Total	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-
Magnesium (Mg)-Total	1.65	1.62	1.83	0.992	0.985	0.708	2.77	2.80	1.08	0.677	0.691	2.05	0.897	0.882	1.69	2.61	2.57	1.54
Manganese (Mn)-Total	0.0121	0.0105	14.2	0.00482	0.00491	1.85	0.00412	0.00418	1.45	0.0103	0.00956	7.45	0.00402	0.00396	1.50	0.00405	0.00377	7.16
Mercury (Hg)-Total	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	0.00000700	0.00000810	-	<0.0000050	<0.0000050	-
Molybdenum (Mo)-Total	0.000391	0.000385	1.55	0.000335	0.000315	6.15	0.000833	0.000831	0.240	0.000223	0.000220	-	0.000282	0.000271	3.98	0.000834	0.000820	1.69
Nickel (Ni)-Total	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Phosphorus (P)-Total	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-
Potassium (K)-Total	0.460	0.457	0.654	0.285	0.270	5.41	0.527	0.544	3.17	0.243	0.260	-	0.271	0.277	2.19	0.521	0.514	1.35
Selenium (Se)-Total	0.0000590	0.0000800	-	0.0000560	<0.000050	-	0.0000530	<0.000050	-	<0.000050	0.0000550	-	0.0000590	<0.000050	-	<0.000050	<0.000050	-
Silicon (Si)-Total	5.94	5.85	1.53	5.24	5.26	0.381	6.21	6.16	0.808	4.44	4.39	1.13	5.29	5.27	0.379	5.71	5.76	0.872
Silver (Ag)-Total	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Sodium (Na)-Total	2.50	2.40	-	2.20	2.20	-	3.50	3.50	-	<2.0	<2.0	-	<2.0	<2.0	-	3.40	3.40	-
Strontium (Sr)-Total	0.0524	0.0517	1.34	0.0390	0.0396	1.53	0.0891	0.0914	2.55	0.0242	0.0257	6.01	0.0340	0.0330	2.99	0.0918	0.0922	0.435
Sulfur (S)-Total	<0.50	<0.50	-	-	-	-	1.03	1.08	-	<0.50	<0.50	-	<0.50	<0.50	-	0.690	0.630	-
Thallium (Tl)-Total	<0.000010	<0.000010	-	0.0000110	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	0.0000150	-	<0.000010	<0.000010	-
Tin (Sn)-Total	<0.00010	0.000100	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Titanium (Ti)-Total	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-
Uranium (U)-Total	0.000127	0.000123	3.20	0.000187	0.000191	2.12	0.000201	0.000203	0.990	0.000193	0.000191	1.04	0.000168	0.000185	9.63	0.000212	0.000212	0
Vanadium (V)-Total	<0.00050	<0.00050	-	0.000530	0.000530	-	<0.00050	<0.00050	-	0.000550	0.000570	-	0.000510	<0.00050	-	<0.00050	<0.00050	-
Zinc (Zn)-Total	<0.0030	<0.0030	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ26			WQ27			WQ27			WQ27			WQ27			WQ27		
Depth	Surface			Surface			Surface			Surface			Surface			Surface		
Date	10/22/2019			6/22/2016			9/13/2017			5/23/2018			6/4/2018			8/28/2018		
LabID	L2371052-4	L2371052-6		L1788643-3	L1788643-6		L1991279-6	L1991279-2		L2100419-1	L2100419-3		L2106738-1	L2106738-3		L2156026-2	L2156026-4	
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Dissolved Metals																		
Aluminum (Al)-Dissolved	0.0731	0.0722	1.24	0.101	0.102	0.985	0.0132	0.0130	-	0.146	0.145	0.687	0.108	0.105	2.82	0.0190	0.0153	21.6
Antimony (Sb)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Arsenic (As)-Dissolved	0.000490	0.000470	-	0.000490	0.000490	-	0.000590	0.000610	3.33	0.000400	0.000380	-	0.000380	0.000390	-	0.000600	0.000650	8.00
Barium (Ba)-Dissolved	0.00603	0.00597	1.00	0.00443	0.00456	2.89	0.00821	0.00833	1.45	0.00365	0.00360	1.38	0.00401	0.00388	3.30	0.00942	0.00956	1.48
Beryllium (Be)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Bismuth (Bi)-Dissolved	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	0.0000760	<0.000050	-
Boron (B)-Dissolved	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-
Cadmium (Cd)-Dissolved	0.00000540	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	0.00000900	0.00000520	-	0.00000590	<0.0000050	-	0.00000690	<0.0000050	-
Calcium (Ca)-Dissolved	7.99	7.82	2.15	5.07	5.20	2.53	13.4	13.5	0.743	3.26	3.16	3.12	4.32	4.30	0.464	13.0	13.3	2.28
Chromium (Cr)-Dissolved	0.000190	0.000210	-	0.000230	0.000220	-	0.000180	0.000200	-	0.000180	0.000220	-	<0.00010	<0.00010	-	0.000190	0.000220	-
Cobalt (Co)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Copper (Cu)-Dissolved	0.000940	0.000680	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	0.000500	0.000510	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Iron (Fe)-Dissolved	0.0870	0.0870	-	0.0800	0.0780	-	0.0570	0.0550	-	0.0710	0.0700	-	0.0610	0.0610	-	0.0330	0.0340	-
Lead (Pb)-Dissolved	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Lithium (Li)-Dissolved	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-
Magnesium (Mg)-Dissolved	1.63	1.66	1.82	0.972	0.981	0.922	2.57	2.59	0.775	0.604	0.590	2.35	0.862	0.855	0.815	2.38	2.46	3.31
Manganese (Mn)-Dissolved	0.00676	0.00642	5.16	0.00196	0.00208	5.94	0.00309	0.00308	0.324	0.00213	0.00213	0	0.00206	0.00213	3.34	0.00427	0.00287	39.2
Mercury (Hg)-Dissolved	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	0.00000880	0.00000730	-	<0.0000050	0.00000510	-	0.00000860	0.00000740	-
Molybdenum (Mo)-Dissolved	0.000380	0.000379	0.264	0.000292	0.000290	0.687	0.000747	0.000766	2.51	0.000217	0.000207	-	0.000258	0.000260	0.772	0.000840	0.000840	0
Nickel (Ni)-Dissolved	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Phosphorus (P)-Dissolved	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-
Potassium (K)-Dissolved	0.433	0.447	3.18	0.251	0.236	-	0.501	0.495	1.20	0.227	0.223	-	0.256	0.254	0.784	0.548	0.550	0.364
Selenium (Se)-Dissolved	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	0.0000500	-	<0.000050	<0.000050	-	<0.000050	0.0000540	-	0.0000650	0.0000550	-
Silicon (Si)-Dissolved	5.94	5.93	0.168	5.28	5.27	0.190	5.75	5.68	1.22	4.38	4.37	0.229	4.72	4.65	1.49	5.66	5.92	4.49
Silver (Ag)-Dissolved	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Sodium (Na)-Dissolved	2.30	2.40	-	2.00	2.00	-	3.30	3.30	-	<2.0	<2.0	-	<2.0	<2.0	-	3.40	3.40	-
Strontium (Sr)-Dissolved	0.0492	0.0513	4.18	0.0373	0.0377	1.07	0.0898	0.0894	0.446	0.0238	0.0228	4.29	0.0317	0.0316	0.316	0.0869	0.0897	3.17
Sulfur (S)-Dissolved	<0.50	<0.50	-	-	-	-	0.830	0.940	-	<0.50	<0.50	-	<0.50	<0.50	-	0.620	0.750	-
Thallium (Tl)-Dissolved	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Tin (Sn)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Titanium (Ti)-Dissolved	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-
Uranium (U)-Dissolved	0.000106	0.000108	1.87	0.000163	0.000165	1.22	0.000197	0.000204	3.49	0.000165	0.000163	1.22	0.000159	0.000160	0.627	0.000190	0.000191	0.525
Vanadium (V)-Dissolved	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Zinc (Zn)-Dissolved	0.00170	<0.0010	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-	0.00260	0.00110	-

Notes:
All measurements are mg/L unless otherwise noted.

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ27			WQ28			WQ28			WQ28			WQ28			WQ28		
Depth	Surface			Surface			Surface			Surface			Surface			Surface		
Date	11/29/2018			5/24/2017			7/18/2017			9/21/2017			9/28/2017			5/9/2018		
LabID	L2204508-4	L2204508-6		L1932034-1	L1932034-4		L1961670-4	L1961670-5		L1995655-5	L1995655-3		L1999769-4	L1999769-3		L2093061-2	L2093061-3	
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Physical Tests																		
pH	7.54	7.55	0.133	7.01	7.04	0.427	7.71	7.70	0.130	7.72	7.83	1.41	7.90	7.90	0	7.13	7.10	0.422
Conductivity	53.9	54.0	0.185	26.2	26.0	0.766	70.6	70.5	0.142	80.7	80.8	0.124	90.8	91.0	0.220	21.5	21.7	0.926
Hardness (as CaCO ₃)	24.7	23.9	3.29	12.1	12.0	0.830	29.8	30.0	0.669	33.6	34.1	1.48	39.1	39.9	2.03	10.0	9.87	1.31
Hardness, Total (as CaCO ₃)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids	56.0	58.0	-	49.0	50.0	-	54.0	52.0	3.77	57.0	64.0	-	100	102	1.98	43.0	60.0	-
Total Suspended Solids	3.00	<3.0	-	4.50	3.10	-	<3.0	<3.0	-	3.40	4.00	-	<3.0	<3.0	-	26.7	20.7	25.3
Turbidity	0.410	0.410	-	1.07	1.38	25.3	0.340	0.340	-	0.520	0.500	3.92	0.360	0.330	-	7.57	7.32	3.36
Acidity (as CaCO ₃)	2.20	2.20	-	3.20	3.00	-	1.70	1.70	-	1.90	1.50	-	1.90	1.90	-	3.30	3.60	-
Alkalinity, Total (as CaCO ₃)	27.9	27.3	2.17	9.50	9.50	0	36.6	36.2	1.10	40.1	40.8	1.73	46.2	46.5	0.647	6.70	6.90	2.94
Anions and Nutrients																		
Total Kjeldahl Nitrogen	0.119	0.123	-	0.371	0.341	8.43	0.103	0.103	-	0.114	0.100	-	0.0850	0.0680	-	0.464	0.429	7.84
Ammonia, Total (as N)	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Bromide (Br)	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	<0.050	-
Chloride (Cl)	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-
Fluoride (F)	0.0320	0.0320	-	0.0210	0.0210	-	0.0350	0.0350	-	0.0370	0.0360	-	0.0380	0.0380	-	0.0210	0.0220	-
Nitrate (as N)	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	0.00630	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Nitrite (as N)	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-
Orthophosphate-Dissolved (as P)	0.00350	0.00360	-	0.00140	0.00150	-	0.00210	0.00200	-	0.00420	0.00420	-	0.00370	0.00380	-	0.00350	0.00340	-
Phosphorus (P)-Total	0.00700	0.00840	-	0.0154	0.0162	5.06	0.00510	0.00470	-	0.00620	0.00610	-	0.00590	0.00610	-	0.0415	0.0483	15.1
Phosphorus Total Dissolved	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfate (SO ₄)	1.61	1.62	0.619	0.580	0.580	-	1.78	1.78	0	2.55	2.54	0.393	2.49	2.49	0	0.490	0.490	-
Cyanides																		
Cyanide, Total	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Cyanide, Weak Acid Diss	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Thiocyanate	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	0.510	0.500	-
Organic / Inorganic Carbon																		
Dissolved Organic Carbon	6.23	6.31	1.28	15.6	15.7	0.639	4.33	4.27	1.40	4.01	4.01	0	3.58	3.54	1.12	17.3	16.8	2.93
Total Organic Carbon	6.31	6.39	1.26	15.7	16.0	1.89	4.27	4.15	2.85	4.12	4.05	1.71	3.55	3.49	1.70	20.5	20.2	1.47

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ27			WQ28			WQ28			WQ28			WQ28			WQ28		
Depth	Surface			Surface			Surface			Surface			Surface			Surface		
Date	11/29/2018			5/24/2017			7/18/2017			9/21/2017			9/28/2017			5/9/2018		
LabID	L2204508-4	L2204508-6		L1932034-1	L1932034-4		L1961670-4	L1961670-5		L1995655-5	L1995655-3		L1999769-4	L1999769-3		L2093061-2	L2093061-3	
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Total Metals																		
Aluminum (Al)-Total	0.0755	0.0764	1.18	0.343	0.332	3.26	0.0349	0.0363	3.93	0.0372	0.0366	1.63	0.0234	0.0238	1.69	0.758	0.743	2.00
Antimony (Sb)-Total	<0.00010	<0.00010	0	<0.00010	<0.00010	0	<0.00010	<0.00010	0	<0.00010	<0.00010	0	<0.00010	<0.00010	0	<0.00010	<0.00010	0
Arsenic (As)-Total	0.000560	0.000540	3.64	0.000550	0.000560	1.80	0.000600	0.000620	3.28	0.000700	0.000700	0	0.000670	0.000680	1.48	0.000900	0.000850	5.71
Barium (Ba)-Total	0.00564	0.00543	3.79	0.00586	0.00582	0.685	0.00608	0.00642	5.44	0.00669	0.00663	0.901	0.00742	0.00771	3.83	0.0116	0.0105	9.95
Beryllium (Be)-Total	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Bismuth (Bi)-Total	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Boron (B)-Total	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-
Cadmium (Cd)-Total	<0.0000050	<0.0000050	-	0.0000150	0.0000120	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	0.0000219	0.0000230	-
Calcium (Ca)-Total	7.45	7.37	1.08	3.95	4.05	2.50	8.80	9.17	4.12	10.3	10.6	2.87	12.1	12.2	0.823	3.14	3.19	1.58
Chromium (Cr)-Total	0.000120	0.000150	-	0.000360	0.000330	-	0.000230	0.000210	-	0.000250	0.000230	-	0.000250	0.000210	-	0.000860	0.000830	3.55
Cobalt (Co)-Total	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	0.000200	0.000220	-
Copper (Cu)-Total	<0.00050	<0.00050	-	0.000730	0.000720	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	0.00109	0.00101	-
Iron (Fe)-Total	0.0790	0.0790	-	0.246	0.241	2.05	0.0730	0.0760	-	0.147	0.147	-	0.102	0.102	-	0.640	0.619	3.34
Lead (Pb)-Total	<0.000050	<0.000050	-	0.0000810	0.0000720	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	0.000273	0.000301	9.76
Lithium (Li)-Total	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-
Magnesium (Mg)-Total	1.45	1.44	0.692	0.728	0.738	1.36	1.74	1.85	6.13	1.99	2.02	1.50	2.53	2.56	1.18	0.687	0.693	0.870
Manganese (Mn)-Total	0.00273	0.00256	6.43	0.0162	0.0145	11.1	0.00345	0.00376	8.60	0.00524	0.00546	4.11	0.00355	0.00358	0.842	0.0370	0.0362	2.19
Mercury (Hg)-Total	0.00000540	<0.0000050	-	0.0000100	0.0000110	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	0.0000117	0.0000111	-
Molybdenum (Mo)-Total	0.000467	0.000472	1.06	0.000180	0.000180	-	0.000614	0.000602	1.97	0.000628	0.000640	1.89	0.000712	0.000738	3.59	0.000194	0.000189	-
Nickel (Ni)-Total	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	0.000690	0.000680	-
Phosphorus (P)-Total	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-
Potassium (K)-Total	0.332	0.322	3.06	0.366	0.363	0.823	0.370	0.369	0.271	0.418	0.422	0.952	0.454	0.465	2.39	0.467	0.473	1.28
Selenium (Se)-Total	<0.000050	0.0000610	-	<0.000050	<0.000050	-	0.0000630	0.0000510	-	0.0000500	<0.000050	-	0.0000730	0.0000610	-	0.0000580	0.0000550	-
Silicon (Si)-Total	6.19	6.24	0.805	4.38	4.37	0.229	5.53	5.62	1.61	5.86	5.77	1.55	6.17	6.14	0.487	4.91	4.99	1.62
Silver (Ag)-Total	<0.000010	<0.000010	-	0.0000110	0.0000120	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	0.0000240	0.0000180	-
Sodium (Na)-Total	2.20	2.10	-	<2.0	<2.0	-	2.40	2.70	-	2.90	3.00	-	3.30	3.40	-	<2.0	<2.0	-
Strontium (Sr)-Total	0.0522	0.0561	7.20	0.0298	0.0302	1.33	0.0640	0.0655	2.32	0.0691	0.0709	2.57	0.0840	0.0841	0.119	0.0263	0.0247	6.27
Sulfur (S)-Total	<0.50	<0.50	-	-	-	-	-	-	-	0.850	0.950	-	0.910	0.960	-	<0.50	<0.50	-
Thallium (Tl)-Total	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Tin (Sn)-Total	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Titanium (Ti)-Total	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	0.0160	0.0160	-
Uranium (U)-Total	0.000124	0.000127	2.39	0.000213	0.000223	4.59	0.000149	0.000148	0.673	0.000134	0.000131	2.26	0.000194	0.000184	5.29	0.000301	0.000255	16.5
Vanadium (V)-Total	0.000650	0.000640	-	0.000760	0.000760	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	0.00159	0.00156	-
Zinc (Zn)-Total	<0.0030	<0.0030	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-	<0.0030	0.00330	-	<0.0030	<0.0030	-	0.00340	0.00350	-

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ27			WQ28			WQ28			WQ28			WQ28			WQ28		
Depth	Surface			Surface			Surface			Surface			Surface			Surface		
Date	11/29/2018			5/24/2017			7/18/2017			9/21/2017			9/28/2017			5/9/2018		
LabID	L2204508-4	L2204508-6		L1932034-1	L1932034-4		L1961670-4	L1961670-5		L1995655-5	L1995655-3		L1999769-4	L1999769-3		L2093061-2	L2093061-3	
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Dissolved Metals																		
Aluminum (Al)-Dissolved	0.0623	0.0612	1.78	0.223	0.232	3.96	0.0319	0.0325	1.86	0.0229	0.0234	2.16	0.0163	0.0162	0.615	0.280	0.273	2.53
Antimony (Sb)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Arsenic (As)-Dissolved	0.000500	0.000500	0	0.000400	0.000450	-	0.000590	0.000610	3.33	0.000640	0.000650	1.55	0.000620	0.000630	1.60	0.000380	0.000340	-
Barium (Ba)-Dissolved	0.00541	0.00541	0	0.00511	0.00516	0.974	0.00627	0.00633	0.952	0.00668	0.00670	0.299	0.00811	0.00815	0.492	0.00501	0.00472	5.96
Beryllium (Be)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Bismuth (Bi)-Dissolved	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Boron (B)-Dissolved	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-
Cadmium (Cd)-Dissolved	<0.0000050	<0.0000050	-	0.0000230	0.0000200	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	0.0000113	0.0000111	-
Calcium (Ca)-Dissolved	7.52	7.27	3.38	3.70	3.58	3.30	8.94	9.00	0.669	10.2	10.4	1.94	11.5	11.8	2.58	3.04	2.99	1.66
Chromium (Cr)-Dissolved	0.000120	0.000120	-	0.000250	0.000200	-	0.000180	0.000160	-	0.000190	0.000200	-	0.000200	0.000200	-	0.000270	0.000280	-
Cobalt (Co)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Copper (Cu)-Dissolved	<0.00050	<0.00050	-	0.000830	0.000650	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	0.000760	0.000720	-
Iron (Fe)-Dissolved	0.0630	0.0630	-	0.161	0.141	-	0.0580	0.0590	-	0.103	0.106	-	0.0710	0.0730	-	0.157	0.155	1.28
Lead (Pb)-Dissolved	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Lithium (Li)-Dissolved	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-
Magnesium (Mg)-Dissolved	1.43	1.40	2.12	0.688	0.733	6.33	1.81	1.83	1.10	1.96	1.98	1.02	2.50	2.55	1.98	0.593	0.587	1.02
Manganese (Mn)-Dissolved	0.00171	0.00164	4.18	0.00380	0.00390	2.60	0.00223	0.00239	6.93	0.00262	0.00255	2.71	0.00184	0.00181	1.64	0.00692	0.00672	2.93
Mercury (Hg)-Dissolved	<0.0000050	<0.0000050	-	0.0000100	0.0000100	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	0.00000940	0.00000810	-
Molybdenum (Mo)-Dissolved	0.000439	0.000432	1.61	0.000209	0.000171	-	0.000557	0.000566	1.60	0.000550	0.000559	1.62	0.000682	0.000682	0	0.000132	0.000138	-
Nickel (Ni)-Dissolved	<0.00050	<0.00050	-	0.000960	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Phosphorus (P)-Dissolved	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-
Potassium (K)-Dissolved	0.325	0.321	1.24	0.341	0.381	11.1	0.378	0.383	1.31	0.409	0.419	2.42	0.466	0.474	1.70	0.425	0.409	3.84
Selenium (Se)-Dissolved	0.0000500	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	0.0000560	-	0.0000500	<0.000050	-	<0.000050	<0.000050	-
Silicon (Si)-Dissolved	6.00	5.93	1.17	4.22	4.30	1.88	5.51	5.58	1.26	5.61	5.71	1.77	6.08	6.00	1.32	3.89	3.89	0
Silver (Ag)-Dissolved	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	0.0000120	<0.000010	-
Sodium (Na)-Dissolved	2.10	2.20	-	<2.0	<2.0	-	2.60	2.60	-	2.90	2.90	-	3.20	3.20	-	<2.0	<2.0	-
Strontium (Sr)-Dissolved	0.0545	0.0544	0.184	0.0271	0.0290	6.77	0.0631	0.0631	0	0.0693	0.0694	0.144	0.0781	0.0769	1.55	0.0240	0.0239	0.418
Sulfur (S)-Dissolved	<0.50	<0.50	-	-	-	-	-	-	-	0.810	0.820	-	0.830	0.740	-	<0.50	<0.50	-
Thallium (Tl)-Dissolved	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Tin (Sn)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Titanium (Ti)-Dissolved	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-
Uranium (U)-Dissolved	0.000121	0.000120	0.830	0.000165	0.000168	1.80	0.000141	0.000140	0.712	0.000118	0.000118	0	0.000162	0.000166	2.44	0.000126	0.000129	2.35
Vanadium (V)-Dissolved	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Zinc (Zn)-Dissolved	<0.0010	<0.0010	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-

Notes:
All measurements are mg/L unless otherwise noted.

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ28			WQ28			WQ28			WQ29			WQ29		
Depth	Surface			Surface			Surface			Surface			Surface		
Date	9/4/2018			5/21/2019			5/29/2019			8/7/2019			11/25/2019		
LabID	L2159605-3	L2159605-4		L2277964-5	L2277964-8		L2282975-4	L2282975-6		L2325935-2	L2325935-4		L2388381-5	L2388381-6	
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Physical Tests															
pH	7.83	7.87	0.510	7.50	7.43	0.938	7.35	7.23	1.65	8.01	8.10	1.12	7.94	7.94	0
Conductivity	101	101	0	24.9	24.2	2.85	30.2	30.4	0.660	126	124	1.60	120	119	0.837
Hardness (as CaCO ₃)	43.6	43.2	0.922	11.1	11.8	6.11	13.9	14.3	2.84	59.4	59.7	0.504	58.2	57.8	0.690
Hardness, Total (as CaCO ₃)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids	70.0	73.0	4.20	60.0	59.0	1.68	52.0	48.0	-	91.0	104	13.3	85.0	86.0	1.17
Total Suspended Solids	<3.0	<3.0	-	9.20	13.8	-	<3.0	<3.0	-	<3.0	<3.0	-	4.30	3.70	-
Turbidity	0.200	0.210	-	2.77	3.15	12.8	0.640	0.730	13.1	1.54	1.50	2.63	1.71	1.26	30.3
Acidity (as CaCO ₃)	1.80	1.60	-	3.60	3.40	-	2.60	2.60	-	1.80	<1.0	-	2.10	2.10	-
Alkalinity, Total (as CaCO ₃)	49.8	51.1	2.58	8.80	8.50	3.47	12.8	13.5	5.32	63.2	64.3	1.73	63.2	65.3	3.27
Anions and Nutrients															
Total Kjeldahl Nitrogen	0.0570	0.0540	-	0.394	0.416	5.43	0.219	0.208	-	0.308	0.286	7.41	0.486	0.501	3.04
Ammonia, Total (as N)	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	0.00920	0.00630	-	0.0333	0.0347	4.12
Bromide (Br)	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	<0.050	-
Chloride (Cl)	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-
Fluoride (F)	0.0430	0.0430	-	0.0220	0.0230	-	0.0240	0.0280	-	0.0570	0.0510	-	0.0550	0.0490	-
Nitrate (as N)	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	0.0304	0.0296	2.67
Nitrite (as N)	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-
Orthophosphate-Dissolved (as P)	0.00520	0.00520	0	0.00170	0.00110	-	0.00130	0.00130	-	0.00330	0.00290	-	0.00940	0.00990	5.18
Phosphorus (P)-Total	0.00710	0.0103	-	0.0209	0.0271	25.8	0.0100	0.00910	-	0.0160	0.0145	9.84	0.0190	0.0199	4.63
Phosphorus Total Dissolved	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfate (SO ₄)	2.53	2.52	0.396	0.590	0.600	-	0.680	0.680	-	2.51	2.37	5.74	2.89	2.90	0.345
Cyanides															
Cyanide, Total	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Cyanide, Weak Acid Diss	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Thiocyanate	<0.50	<0.50	-	0.510	0.450	-	0.310	0.310	-	<0.50	<0.50	-	<0.50	<0.50	-
Organic / Inorganic Carbon															
Dissolved Organic Carbon	2.65	2.66	0.377	16.5	16.2	1.83	11.0	10.9	0.913	10.8	9.96	8.09	8.94	8.86	0.899
Total Organic Carbon	2.67	2.68	0.374	17.6	17.6	0	11.6	11.3	2.62	11.1	10.2	8.45	9.37	9.32	0.535

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ28			WQ28			WQ28			WQ29			WQ29		
Depth	Surface			Surface			Surface			Surface			Surface		
Date	9/4/2018			5/21/2019			5/29/2019			8/7/2019			11/25/2019		
LabID	L2159605-3	L2159605-4		L2277964-5	L2277964-8		L2282975-4	L2282975-6		L2325935-2	L2325935-4		L2388381-5	L2388381-6	
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Total Metals															
Aluminum (Al)-Total	0.0219	0.0202	8.08	0.377	0.396	4.92	0.182	0.181	0.551	0.0451	0.0397	12.7	0.0640	0.0646	0.933
Antimony (Sb)-Total	<0.00010	<0.00010	0	<0.00010	<0.00010	0	<0.00010	<0.00010	0	<0.00010	<0.00010	0	<0.00010	<0.00010	0
Arsenic (As)-Total	0.000660	0.000670	1.50	0.000690	0.000640	7.52	0.000480	0.000480	-	0.000800	0.000760	5.13	0.000570	0.000580	1.74
Barium (Ba)-Total	0.00822	0.00858	4.29	0.00673	0.00705	4.64	0.00486	0.00486	0	0.00792	0.00774	2.30	0.00731	0.00735	0.546
Beryllium (Be)-Total	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Bismuth (Bi)-Total	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Boron (B)-Total	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-
Cadmium (Cd)-Total	<0.0000050	<0.0000050	-	0.0000138	0.0000151	-	0.00000560	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-
Calcium (Ca)-Total	13.4	13.5	0.743	3.42	3.30	3.57	4.04	4.17	3.17	17.3	17.1	1.16	15.9	16.2	1.87
Chromium (Cr)-Total	0.000230	0.000230	-	0.000450	0.000410	-	0.000340	0.000320	-	0.000160	0.000160	-	0.000210	0.000190	-
Cobalt (Co)-Total	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Copper (Cu)-Total	<0.00050	<0.00050	-	0.000810	0.000800	-	0.000540	0.000550	-	0.000530	0.000520	-	0.000510	0.000590	-
Iron (Fe)-Total	0.0700	0.0700	-	0.304	0.286	6.10	0.130	0.125	-	0.316	0.277	13.2	0.279	0.273	2.17
Lead (Pb)-Total	<0.000050	<0.000050	-	0.000101	0.0000900	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Lithium (Li)-Total	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-
Magnesium (Mg)-Total	2.54	2.60	2.33	0.646	0.636	1.56	0.747	0.768	2.77	4.33	4.26	1.63	3.63	3.63	0
Manganese (Mn)-Total	0.00333	0.00320	3.98	0.0258	0.0230	11.5	0.00610	0.00588	3.67	0.0334	0.0320	4.28	0.0374	0.0366	2.16
Mercury (Hg)-Total	0.00000560	<0.0000050	-	0.0000138	0.0000140	-	0.00000750	0.00000740	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-
Molybdenum (Mo)-Total	0.000827	0.000828	0.121	0.000167	0.000158	-	0.000229	0.000244	-	0.000643	0.000611	5.10	0.000529	0.000542	2.43
Nickel (Ni)-Total	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Phosphorus (P)-Total	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-
Potassium (K)-Total	0.449	0.454	1.11	0.322	0.315	2.20	0.291	0.292	0.343	0.636	0.628	1.27	0.680	0.670	1.48
Selenium (Se)-Total	0.0000510	<0.000050	-	<0.000050	<0.000050	-	0.0000550	<0.000050	-	0.0000540	<0.000050	-	<0.000050	0.0000580	-
Silicon (Si)-Total	5.85	5.91	1.02	4.28	4.08	4.78	5.09	5.14	0.978	4.33	4.22	2.57	5.55	5.67	2.14
Silver (Ag)-Total	<0.000010	<0.000010	-	0.0000120	0.0000140	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Sodium (Na)-Total	3.00	3.00	-	<2.0	<2.0	-	<2.0	<2.0	-	3.30	3.30	-	3.20	3.20	-
Strontium (Sr)-Total	0.0853	0.0892	4.47	0.0245	0.0244	0.409	0.0318	0.0343	7.56	0.0943	0.0892	5.56	0.0830	0.0825	0.604
Sulfur (S)-Total	0.960	0.940	-	<0.50	<0.50	-	<0.50	<0.50	-	0.950	0.980	-	1.20	1.30	-
Thallium (Tl)-Total	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Tin (Sn)-Total	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Titanium (Ti)-Total	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-
Uranium (U)-Total	0.000232	0.000234	0.858	0.000173	0.000187	7.78	0.000182	0.000179	1.66	0.000101	0.0000950	6.12	0.0000890	0.0000910	2.22
Vanadium (V)-Total	<0.00050	<0.00050	-	0.000880	0.000790	-	<0.00050	<0.00050	-	0.000800	0.000750	-	0.000520	0.000520	-
Zinc (Zn)-Total	<0.0030	<0.0030	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ28			WQ28			WQ28			WQ29			WQ29		
Depth	Surface			Surface			Surface			Surface			Surface		
Date	9/4/2018			5/21/2019			5/29/2019			8/7/2019			11/25/2019		
LabID	L2159605-3	L2159605-4		L2277964-5	L2277964-8		L2282975-4	L2282975-6		L2325935-2	L2325935-4		L2388381-5	L2388381-6	
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Dissolved Metals															
Aluminum (Al)-Dissolved	0.0136	0.0131	-	0.243	0.251	3.24	0.144	0.152	5.41	0.0124	0.0122	-	0.0223	0.0210	6.00
Antimony (Sb)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Arsenic (As)-Dissolved	0.000670	0.000620	7.75	0.000480	0.000500	-	0.000430	0.000440	-	0.000720	0.000690	4.26	0.000460	0.000490	-
Barium (Ba)-Dissolved	0.00777	0.00793	2.04	0.00490	0.00501	2.22	0.00438	0.00460	4.90	0.00770	0.00727	5.74	0.00676	0.00675	0.148
Beryllium (Be)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Bismuth (Bi)-Dissolved	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Boron (B)-Dissolved	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-
Cadmium (Cd)-Dissolved	<0.0000050	<0.0000050	-	0.00000950	0.00000950	-	0.00000510	0.00000540	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-
Calcium (Ca)-Dissolved	13.2	13.1	0.760	3.34	3.59	7.22	4.25	4.39	3.24	17.4	17.7	1.71	17.0	17.0	0
Chromium (Cr)-Dissolved	0.000210	0.000220	-	0.000230	0.000230	-	0.000210	0.000230	-	<0.00010	0.000100	-	0.000130	0.000110	-
Cobalt (Co)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Copper (Cu)-Dissolved	<0.00050	<0.00050	-	0.000660	0.000680	-	0.000550	0.000520	-	0.000550	<0.00050	-	<0.00050	0.000510	-
Iron (Fe)-Dissolved	0.0530	0.0520	-	0.134	0.133	-	0.0810	0.0820	-	0.186	0.156	17.5	0.137	0.135	-
Lead (Pb)-Dissolved	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Lithium (Li)-Dissolved	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-
Magnesium (Mg)-Dissolved	2.59	2.57	0.775	0.666	0.679	1.93	0.787	0.811	3.00	3.86	3.79	1.83	3.81	3.73	2.12
Manganese (Mn)-Dissolved	0.00228	0.00225	1.32	0.00472	0.00476	0.844	0.00234	0.00236	0.851	0.0177	0.0181	2.23	0.0226	0.0232	2.62
Mercury (Hg)-Dissolved	<0.0000050	<0.0000050	-	0.0000130	0.0000119	-	0.00000660	0.00000640	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-
Molybdenum (Mo)-Dissolved	0.000786	0.000838	6.40	0.000194	0.000143	-	0.000232	0.000207	-	0.000627	0.000641	2.21	0.000565	0.000528	6.77
Nickel (Ni)-Dissolved	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Phosphorus (P)-Dissolved	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-
Potassium (K)-Dissolved	0.468	0.461	1.51	0.361	0.370	2.46	0.284	0.318	11.3	0.636	0.654	2.79	0.682	0.675	1.03
Selenium (Se)-Dissolved	0.0000600	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	0.0000570	-	<0.000050	<0.000050	-
Silicon (Si)-Dissolved	5.54	5.53	0.181	4.17	4.24	1.66	4.82	4.76	1.25	4.36	4.31	1.15	5.47	5.26	3.91
Silver (Ag)-Dissolved	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Sodium (Na)-Dissolved	3.50	3.40	-	<2.0	<2.0	-	<2.0	<2.0	-	3.60	3.30	-	3.10	3.10	-
Strontium (Sr)-Dissolved	0.0862	0.0870	0.924	0.0250	0.0253	1.19	0.0321	0.0293	9.12	0.0938	0.0943	0.532	0.0796	0.0809	1.62
Sulfur (S)-Dissolved	1.04	1.07	-	<0.50	<0.50	-	<0.50	<0.50	-	0.550	0.530	-	0.820	0.790	-
Thallium (Tl)-Dissolved	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Tin (Sn)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Titanium (Ti)-Dissolved	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-
Uranium (U)-Dissolved	0.000217	0.000210	3.28	0.000164	0.000163	0.612	0.000169	0.000167	1.19	0.0000970	0.0000940	3.14	0.0000850	0.0000870	2.33
Vanadium (V)-Dissolved	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Zinc (Zn)-Dissolved	<0.0010	<0.0010	-	0.00130	0.00120	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-

Notes:

All measurements are mg/L unless otherwise noted.

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ29			WQ29			WQ29			WQ3			WQ30		
Depth	Surface			Surface			Surface			Surface			Surface		
Date	3/17/2020			4/2/2020			10/8/2020			4/13/2014			5/13/2020		
LabID	VA20A3580-001	VA20A3580-003		VA20A4424-001	VA20A4424-003		VA20B7828-001	VA20B7828-004					VA20A6503-002	VA20A6503-005	
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Physical Tests															
pH	7.89	7.92	0.380	8.07	8.05	0.248	8.03	8.05	0.249	7.70	7.73	0.389	7.83	7.83	0
Conductivity	160	160	0	168	165	1.80	149	149	0	102	107	4.78	108	108	0
Hardness (as CaCO ₃)	76.8	76.4	0.522	83.1	77.9	6.46	74.6	75.1	0.668	45.1	45.4	0.663	53.0	52.4	1.14
Hardness, Total (as CaCO ₃)	74.1	73.7	0.541	80.3	82.7	2.94	70.1	67.8	3.34	-	-	-	52.6	51.8	1.53
Total Dissolved Solids	114	116	1.74	113	111	1.79	105	101	3.88	80.0	72.0	10.5	87.0	89.0	2.27
Total Suspended Solids	<3.0	<3.0	-	4.70	3.70	-	<3.0	<3.0	-	<2	4.00	-	4.50	3.90	-
Turbidity	1.04	1.16	10.9	1.82	1.77	2.79	1.37	1.38	0.727	0.400	0.500	-	1.11	1.04	6.51
Acidity (as CaCO ₃)	3.30	2.70	-	2.10	<2.0	-	<2.0	<2.0	-	-	-	-	<2.0	<2.0	-
Alkalinity, Total (as CaCO ₃)	80.9	78.9	2.50	80.2	80.5	0.373	74.2	75.9	2.27	54.0	55.0	1.83	57.8	56.9	1.57
Anions and Nutrients															
Total Kjeldahl Nitrogen	0.261	0.244	-	0.243	0.228	-	0.260	0.276	5.97	0.140	0.120	-	0.309	0.306	0.976
Ammonia, Total (as N)	0.0122	0.0128	-	0.0101	0.0103	-	<0.0050	<0.0050	-	<0.02	0.0300	-	0.00600	0.00630	-
Bromide (Br)	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	<0.050	-	-	-	-	<0.050	<0.050	-
Chloride (Cl)	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	0.300	0.200	-	<0.50	<0.50	-
Fluoride (F)	0.0600	0.0610	-	0.0580	0.0590	-	0.0620	0.0620	-	0.0700	0.0700	-	0.0490	0.0490	-
Nitrate (as N)	0.0101	0.00910	-	0.00580	0.00630	-	<0.0050	<0.0050	-	0.0420	0.0490	15.4	<0.0050	<0.0050	-
Nitrite (as N)	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.003	0.00300	-	<0.0010	<0.0010	-
Orthophosphate-Dissolved (as P)	0.00920	0.00880	4.44	0.00860	0.00840	2.35	0.00420	0.00400	-	<0.003	<0.003	-	0.00490	0.00520	-
Phosphorus (P)-Total	0.0171	0.0153	11.1	0.0185	0.0189	2.14	0.0173	0.0167	3.53	-	-	-	0.0199	0.0198	0.504
Phosphorus Total Dissolved	-	-	-	-	-	-	-	-	-	0.0400	0.0400	-	-	-	-
Sulfate (SO ₄)	3.54	3.58	1.12	3.52	3.53	0.284	3.06	3.07	0.326	1.20	1.40	-	2.58	2.58	0
Cyanides															
Cyanide, Total	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Cyanide, Weak Acid Diss	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Thiocyanate	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	-	-	-	<0.50	<0.50	-
Organic / Inorganic Carbon															
Dissolved Organic Carbon	6.67	6.54	1.97	6.92	7.40	6.70	7.62	7.44	2.39	0.900	2.70	100	10.8	10.7	0.930
Total Organic Carbon	7.44	7.17	3.70	7.10	7.27	2.37	7.82	7.37	5.92	2.10	2.70	25.0	11.1	12.3	10.3

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ29			WQ29			WQ29			WQ3			WQ30		
Depth	Surface			Surface			Surface			Surface			Surface		
Date	3/17/2020			4/2/2020			10/8/2020			4/13/2014			5/13/2020		
LabID	VA20A3580-001	VA20A3580-003		VA20A4424-001	VA20A4424-003		VA20B7828-001	VA20B7828-004					VA20A6503-002	VA20A6503-005	
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Total Metals															
Aluminum (Al)-Total	0.0223	0.0241	7.76	0.0309	0.0299	3.29	0.0258	0.0216	17.7	0.0240	0.0220	8.70	0.0896	0.0796	11.8
Antimony (Sb)-Total	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	< 0.00005	<0.00005	0	<0.00010	<0.00010	-
Arsenic (As)-Total	0.000560	0.000560	0	0.000580	0.000590	1.71	0.000750	0.000710	5.48	0.000900	0.000900	0	0.000500	0.000510	1.98
Barium (Ba)-Total	0.00838	0.00820	2.17	0.00892	0.00875	1.92	0.00921	0.00844	8.73	0.00433	0.00429	0.928	0.00754	0.00717	5.03
Beryllium (Be)-Total	<0.000020	<0.000020	-	<0.000020	<0.000020	-	<0.000020	<0.000020	-	< 0.0001	<0.0001	-	<0.000020	<0.000020	-
Bismuth (Bi)-Total	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	-	-	-	<0.000050	<0.000050	-
Boron (B)-Total	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	< 0.001	<0.001	-	<0.010	<0.010	-
Cadmium (Cd)-Total	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	< 0.000015	<0.000015	-	<0.0000050	<0.0000050	-
Calcium (Ca)-Total	21.5	21.3	0.935	23.4	23.8	1.69	20.0	19.4	3.05	13.3	13.3	0	15.1	15.0	0.664
Chromium (Cr)-Total	0.000100	0.000120	-	0.000140	0.000140	-	0.000130	0.000150	-	0.000800	0.000900	-	0.000210	0.000190	-
Cobalt (Co)-Total	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	< 0.00002	<0.00002	-	<0.00010	<0.00010	-
Copper (Cu)-Total	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	< 0.0001	<0.0001	-	0.000660	0.000600	-
Iron (Fe)-Total	0.338	0.342	1.18	0.388	0.399	2.80	0.367	0.364	0.821	0.0653	0.0671	2.72	0.179	0.167	6.94
Lead (Pb)-Total	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	< 0.00005	<0.00005	-	<0.000050	<0.000050	-
Lithium (Li)-Total	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	< 0.001	<0.001	-	<0.0010	<0.0010	-
Magnesium (Mg)-Total	4.94	4.97	0.605	5.33	5.65	5.83	4.90	4.73	3.53	2.91	2.94	1.03	3.62	3.48	3.94
Manganese (Mn)-Total	0.0252	0.0254	0.791	0.0346	0.0338	2.34	0.0446	0.0401	10.6	0.00492	0.00474	3.73	0.0205	0.0192	6.55
Mercury (Hg)-Total	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	< 0.000005	<0.000005	-	<0.0000050	<0.0000050	-
Molybdenum (Mo)-Total	0.000782	0.000707	10.1	0.000845	0.000731	14.5	0.000830	0.000821	1.09	0.000770	0.000750	2.63	0.000516	0.000449	13.9
Nickel (Ni)-Total	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	0.000140	0.0000800	-	<0.00050	<0.00050	-
Phosphorus (P)-Total	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	<0.050	-	0.0400	0.0400	-	<0.050	<0.050	-
Potassium (K)-Total	0.833	0.849	1.90	0.884	0.890	0.676	0.893	0.859	3.88	0.500	0.500	-	0.761	0.733	3.75
Selenium (Se)-Total	0.0000580	0.0000510	-	0.0000900	0.0000620	-	0.0000660	0.0000550	-	< 0.0001	<0.0001	-	<0.000050	0.0000580	-
Silicon (Si)-Total	5.22	5.09	2.52	5.17	5.07	1.95	4.85	4.92	1.43	7.51	7.61	1.32	4.55	4.50	1.10
Silver (Ag)-Total	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	< 0.00005	<0.00005	-	<0.000010	<0.000010	-
Sodium (Na)-Total	4.17	4.13	0.964	4.38	4.44	1.36	4.00	3.74	6.72	3.60	3.60	0	3.22	3.22	0
Strontium (Sr)-Total	0.110	0.112	1.80	0.111	0.109	1.82	0.117	0.109	7.08	0.0823	0.0828	0.606	0.0798	0.0817	2.35
Sulfur (S)-Total	1.40	1.35	-	1.33	1.25	-	1.03	0.880	-	-	-	-	1.04	0.900	-
Thallium (Tl)-Total	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	< 0.00005	<0.00005	-	<0.000010	<0.000010	-
Tin (Sn)-Total	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	< 0.0001	<0.0001	-	<0.00010	<0.00010	-
Titanium (Ti)-Total	<0.00120	0.00105	-	0.00150	0.00130	-	0.00114	0.000890	-	0.000800	0.000600	-	0.00306	0.00252	19.4
Uranium (U)-Total	0.000148	0.000151	2.01	0.000170	0.000171	0.587	0.000121	0.000116	4.22	0.000200	0.000200	-	0.0000790	0.0000800	1.26
Vanadium (V)-Total	<0.00050	<0.00050	-	0.000590	0.000570	-	0.000590	0.000540	-	0.00110	0.00111	0.905	0.000690	0.000640	-
Zinc (Zn)-Total	<0.0030	<0.0030	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-	0.00120	0.00190	-	<0.0030	<0.0030	-

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ29			WQ29			WQ29			WQ3			WQ30		
Depth	Surface			Surface			Surface			Surface			Surface		
Date	3/17/2020			4/2/2020			10/8/2020			4/13/2014			5/13/2020		
LabID	VA20A3580-001	VA20A3580-003		VA20A4424-001	VA20A4424-003		VA20B7828-001	VA20B7828-004					VA20A6503-002	VA20A6503-005	
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Dissolved Metals															
Aluminum (Al)-Dissolved	0.00380	0.00380	-	0.00410	0.00540	-	0.00380	0.00410	-	0.00900	0.00900	-	0.0273	0.0286	4.65
Antimony (Sb)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	< 0.00005	<0.00005	-	<0.00010	<0.00010	-
Arsenic (As)-Dissolved	0.000520	0.000520	0	0.000580	0.000520	10.9	0.000650	0.000660	1.53	0.000900	0.000900	0	0.000480	0.000450	-
Barium (Ba)-Dissolved	0.00766	0.00777	1.43	0.00877	0.00909	3.58	0.00876	0.00805	8.45	0.00404	0.00406	0.494	0.00722	0.00738	2.19
Beryllium (Be)-Dissolved	<0.000020	<0.000020	-	<0.000020	<0.000020	-	<0.000020	<0.000020	-	< 0.0001	<0.0001	-	<0.000020	<0.000020	-
Bismuth (Bi)-Dissolved	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	-	-	-	<0.000050	<0.000050	-
Boron (B)-Dissolved	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	< 0.001	<0.001	-	<0.010	<0.010	-
Cadmium (Cd)-Dissolved	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	< 0.000015	<0.000015	-	<0.0000050	<0.0000050	-
Calcium (Ca)-Dissolved	21.9	21.7	0.917	24.5	22.1	10.3	22.0	21.8	0.913	12.5	12.7	1.59	15.3	15.1	1.32
Chromium (Cr)-Dissolved	0.000130	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	0.000700	0.000900	-	0.000120	0.000100	-
Cobalt (Co)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	< 0.00002	<0.00002	-	<0.00010	<0.00010	-
Copper (Cu)-Dissolved	0.000310	0.000310	-	0.000280	0.000340	-	0.000320	0.000360	-	< 0.0001	<0.0001	-	0.000560	0.000590	-
Iron (Fe)-Dissolved	0.213	0.222	4.14	0.250	0.241	3.67	0.232	0.238	2.55	0.0281	0.0266	5.48	0.0900	0.0910	1.10
Lead (Pb)-Dissolved	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	< 0.00005	<0.00005	-	<0.000050	<0.000050	-
Lithium (Li)-Dissolved	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	< 0.001	<0.001	-	<0.0010	<0.0010	-
Magnesium (Mg)-Dissolved	5.36	5.42	1.11	5.32	5.54	4.05	4.78	5.01	4.70	2.81	2.85	1.41	3.55	3.58	0.842
Manganese (Mn)-Dissolved	0.0211	0.0214	1.41	0.0279	0.0294	5.24	0.0242	0.0245	1.23	0.00285	0.00288	1.05	0.0119	0.0121	1.67
Mercury (Hg)-Dissolved	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	< 0.000005	<0.000005	-	<0.0000050	<0.0000050	-
Molybdenum (Mo)-Dissolved	0.000686	0.000698	1.73	0.000713	0.000787	9.87	0.000771	0.000778	0.904	0.000740	0.000750	1.34	0.000470	0.000424	10.3
Nickel (Ni)-Dissolved	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	< 0.00005	<0.00005	-	<0.00050	<0.00050	-
Phosphorus (P)-Dissolved	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	<0.050	-	0.0400	0.0400	-	<0.050	<0.050	-
Potassium (K)-Dissolved	0.886	0.874	1.36	0.906	0.884	2.46	0.908	0.924	1.75	0.500	0.500	-	0.732	0.731	0.137
Selenium (Se)-Dissolved	<0.000050	<0.000050	-	0.0000610	<0.000050	-	0.0000680	<0.000050	-	< 0.0001	<0.0001	-	0.0000720	0.0000630	-
Silicon (Si)-Dissolved	5.16	5.01	2.95	4.94	5.13	3.77	4.61	4.60	0.217	7.05	7.18	1.83	4.32	4.31	0.232
Silver (Ag)-Dissolved	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	< 0.00005	<0.00005	-	<0.000010	<0.000010	-
Sodium (Na)-Dissolved	4.44	4.23	4.84	4.30	4.29	0.233	3.87	3.98	2.80	3.40	3.50	2.90	3.00	2.97	1.01
Strontium (Sr)-Dissolved	0.112	0.112	0	0.109	0.113	3.60	0.112	0.109	2.71	0.0763	0.0774	1.43	0.0802	0.0797	0.625
Sulfur (S)-Dissolved	0.960	0.990	-	1.22	1.24	-	1.02	0.920	-	-	-	-	<0.50	0.580	-
Thallium (Tl)-Dissolved	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	< 0.00005	<0.00005	-	<0.000010	<0.000010	-
Tin (Sn)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	< 0.0001	<0.0001	-	<0.00010	<0.00010	-
Titanium (Ti)-Dissolved	<0.00030	<0.00030	-	<0.00030	<0.00030	-	<0.00030	<0.00030	-	0.000300	0.000400	-	0.000610	0.000630	-
Uranium (U)-Dissolved	0.000148	0.000151	2.01	0.000164	0.000167	1.81	0.000119	0.000126	5.71	0.000180	0.000190	-	0.0000690	0.0000640	7.52
Vanadium (V)-Dissolved	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	0.000570	0.000600	5.13	<0.00050	<0.00050	-
Zinc (Zn)-Dissolved	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	0.00120	0.00190	-	0.00190	0.00150	-

Notes:

All measurements are mg/L unless otherwise noted.

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ30			WQ31			WQ31			WQ4			WQ4		
Depth	Surface			Surface			Surface			Surface			Surface		
Date	8/26/2020			6/2/2020			9/1/2020			5/15/2012			5/16/2019		
LabID	VA20B3860-002	VA20B3860-006		VA20A7672-001	VA20A7672-005		VA20B4313-002	VA20B4313-004					L2275791-1	L2275791-2	
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Physical Tests															
pH	7.97	8.00	0.376	6.74	6.79	0.739	7.51	7.52	0.133	6.94	7.06	1.71	7.03	7.03	0
Conductivity	147	149	1.35	27.2	27.6	1.46	48.9	49.4	1.02	44.0	44.0	0	53.6	55.8	4.02
Hardness (as CaCO ₃)	74.7	74.7	0	12.8	12.7	0.784	21.7	21.2	2.33	-	-	-	20.1	22.1	9.48
Hardness, Total (as CaCO ₃)	73.5	73.0	0.683	13.4	13.2	1.50	21.0	21.0	0	-	-	-	-	-	-
Total Dissolved Solids	104	116	10.9	43.0	38.0	-	44.0	50.0	-	-	-	-	74.0	64.0	-
Total Suspended Solids	<3.0	5.00	-	<3.0	<3.0	-	<3.0	3.00	-	8.00	10.0	-	3.60	<3.0	-
Turbidity	4.66	1.82	87.7	0.590	0.710	18.5	0.470	0.460	-	16.0	15.0	6.45	0.350	0.370	-
Acidity (as CaCO ₃)	<2.0	<2.0	-	2.60	2.60	-	2.70	2.70	-	-	-	-	3.10	3.00	-
Alkalinity, Total (as CaCO ₃)	71.8	73.5	2.34	12.8	13.1	2.32	24.8	24.1	2.86	10.0	11.0	9.52	11.7	12.0	2.53
Anions and Nutrients															
Total Kjeldahl Nitrogen	0.345	0.356	3.14	0.197	0.208	-	0.150	0.136	-	0.520	0.480	8.00	0.281	0.278	1.07
Ammonia, Total (as N)	0.00550	0.00760	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	< 0.02	< 0.02	-	<0.0050	0.0238	-
Bromide (Br)	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	<0.050	-	-	-	-	<0.050	<0.050	-
Chloride (Cl)	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	1.50	1.90	23.5	<0.50	<0.50	-
Fluoride (F)	0.0650	0.0670	-	0.0200	0.0200	-	0.0240	0.0220	-	0.0500	0.0800	-	0.0450	0.0450	-
Nitrate (as N)	0.00930	0.00940	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	< 0.005	< 0.005	-	<0.0050	<0.0050	-
Nitrite (as N)	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	< 0.003	0.0120	-	<0.0010	<0.0010	-
Orthophosphate-Dissolved (as P)	0.00250	0.00230	-	0.00160	0.00150	-	0.00270	0.00260	-	0.0120	0.0150	-	<0.0010	<0.0010	-
Phosphorus (P)-Total	0.0192	0.0186	3.17	0.00800	0.00840	-	0.00680	0.00650	-	-	-	-	0.00760	0.00900	-
Phosphorus Total Dissolved	-	-	-	-	-	-	-	-	-	0.00700	0.00700	0	-	-	-
Sulfate (SO ₄)	3.27	3.26	0.306	0.330	0.320	-	0.300	0.300	-	7.10	8.20	14.4	11.1	11.4	2.67
Cyanides															
Cyanide, Total	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Cyanide, Weak Acid Diss	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Thiocyanate	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	-	-	-	0.320	0.350	-
Organic / Inorganic Carbon															
Dissolved Organic Carbon	8.47	8.36	1.31	10.9	11.4	4.48	7.59	7.48	1.46	16.4	16.3	0.612	10.8	10.8	0
Total Organic Carbon	9.70	8.74	10.4	11.4	11.5	0.873	7.81	7.85	0.511	16.5	16.4	0.608	10.8	10.7	0.930

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ30			WQ31			WQ31			WQ4			WQ4		
Depth	Surface			Surface			Surface			Surface			Surface		
Date	8/26/2020			6/2/2020			9/1/2020			5/15/2012			5/16/2019		
LabID	VA20B3860-002	VA20B3860-006		VA20A7672-001	VA20A7672-005		VA20B4313-002	VA20B4313-004					L2275791-1	L2275791-2	
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Total Metals															
Aluminum (Al)-Total	0.0245	0.0183	29.0	0.182	0.188	3.24	0.107	0.114	6.33	0.885	0.899	1.57	0.135	0.128	5.32
Antimony (Sb)-Total	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	0.000210	0.000210	-	0.000180	0.000190	-
Arsenic (As)-Total	0.000890	0.000830	6.98	0.000180	0.000210	-	0.000220	0.000240	-	0.00230	0.00230	0	0.00110	0.00115	4.44
Barium (Ba)-Total	0.00905	0.00880	2.80	0.00551	0.00580	5.13	0.00727	0.00738	1.50	0.00839	0.0108	25.1	0.00324	0.00318	1.87
Beryllium (Be)-Total	<0.000020	<0.000020	-	0.0000330	0.0000360	-	<0.000020	<0.000020	-	<0.0001	<0.0001	-	<0.00010	<0.00010	-
Bismuth (Bi)-Total	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	-	-	-	<0.000050	<0.000050	-
Boron (B)-Total	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.001	<0.001	-	<0.010	<0.010	-
Cadmium (Cd)-Total	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	0.0000800	0.0000730	-	0.0000326	0.0000333	2.12
Calcium (Ca)-Total	21.0	20.8	0.957	4.18	4.09	2.18	6.43	6.42	0.156	6.00	5.90	1.68	6.53	6.89	5.37
Chromium (Cr)-Total	0.000130	0.000110	-	0.000200	0.000250	-	0.000200	0.000220	-	0.000700	0.000800	-	0.000190	0.000160	-
Cobalt (Co)-Total	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	0.0000500	0.0000600	-	<0.00010	<0.00010	-
Copper (Cu)-Total	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	0.00310	0.000600	135	<0.00050	<0.00050	-
Iron (Fe)-Total	0.300	0.298	0.669	0.0820	0.0840	2.41	0.0770	0.0800	3.82	0.721	0.736	2.06	0.0860	0.0760	-
Lead (Pb)-Total	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	0.000930	0.000920	1.08	<0.000050	<0.000050	-
Lithium (Li)-Total	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.001	<0.001	-	<0.0010	<0.0010	-
Magnesium (Mg)-Total	5.12	5.09	0.588	0.719	0.730	1.52	1.20	1.21	0.830	1.18	1.20	-	1.16	1.22	5.04
Manganese (Mn)-Total	0.0346	0.0338	2.34	0.00197	0.00298	40.8	0.00500	0.00534	6.58	0.0338	0.0334	1.19	0.00569	0.00506	11.7
Mercury (Hg)-Total	<0.0000050	<0.0000050	-	0.00000960	0.00000590	-	<0.0000050	<0.0000050	-	<0.000005	<0.000005	-	<0.0000050	<0.0000050	-
Molybdenum (Mo)-Total	0.000825	0.000825	0	0.000132	0.000124	-	0.000262	0.000250	4.69	<0.00005	<0.00005	-	0.000142	0.000138	-
Nickel (Ni)-Total	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	0.000440	0.000350	-	<0.00050	<0.00050	-
Phosphorus (P)-Total	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	<0.050	-	0.0300	0.0300	-	<0.30	<0.30	-
Potassium (K)-Total	0.865	0.845	2.34	0.171	0.175	-	0.231	0.233	-	0.700	0.700	-	0.546	0.577	5.52
Selenium (Se)-Total	0.0000780	0.0000640	-	0.0000590	0.0000660	-	<0.000050	<0.000050	-	<0.0006	<0.0006	-	<0.000050	<0.000050	-
Silicon (Si)-Total	4.53	4.48	1.11	4.68	4.58	2.16	5.70	5.83	2.25	5.45	5.42	0.552	4.62	4.18	10.0
Silver (Ag)-Total	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.00005	<0.00005	-	0.0000110	0.0000150	-
Sodium (Na)-Total	4.15	4.14	0.241	1.38	1.40	1.44	2.07	2.13	2.86	2.10	2.10	-	2.10	2.10	-
Strontium (Sr)-Total	0.116	0.110	5.31	0.0333	0.0320	3.98	0.0525	0.0524	0.191	0.0363	0.0362	0.276	0.0405	0.0406	0.247
Sulfur (S)-Total	0.920	0.800	-	<0.50	<0.50	-	<0.50	<0.50	-	-	-	-	3.29	3.37	2.40
Thallium (Tl)-Total	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.00005	<0.00005	-	<0.000010	<0.000010	-
Tin (Sn)-Total	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.0001	<0.0001	-	<0.00010	<0.00010	-
Titanium (Ti)-Total	0.000800	0.000950	-	0.00160	0.00170	6.06	0.00141	0.00143	-	0.0347	0.0357	2.84	<0.010	<0.010	-
Uranium (U)-Total	0.000142	0.000141	0.707	0.000131	0.000129	1.54	0.000112	0.000112	0	0.0000700	0.0000700	-	0.0000350	0.0000330	-
Vanadium (V)-Total	0.000640	0.000630	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	0.00150	0.00160	6.45	<0.00050	<0.00050	-
Zinc (Zn)-Total	<0.0030	<0.0030	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-	0.0592	0.0596	0.673	0.0371	0.0343	7.84

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ30			WQ31			WQ31			WQ4			WQ4		
Depth	Surface			Surface			Surface			Surface			Surface		
Date	8/26/2020			6/2/2020			9/1/2020			5/15/2012			5/16/2019		
LabID	VA20B3860-002	VA20B3860-006		VA20A7672-001	VA20A7672-005		VA20B4313-002	VA20B4313-004					L2275791-1	L2275791-2	
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Dissolved Metals															
Aluminum (Al)-Dissolved	0.00570	0.00410	-	0.164	0.163	0.612	0.0836	0.0763	9.13	0.214	0.206	3.81	0.112	0.123	9.36
Antimony (Sb)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	0.000190	0.000170	-	0.000150	0.000170	-
Arsenic (As)-Dissolved	0.000830	0.000790	4.94	0.000160	0.000150	-	0.000270	0.000180	-	0.00130	0.00140	7.41	0.00101	0.00106	4.83
Barium (Ba)-Dissolved	0.00834	0.00828	0.722	0.00530	0.00522	1.52	0.00724	0.00683	5.83	0.00264	0.00277	4.81	0.00300	0.00318	5.83
Beryllium (Be)-Dissolved	<0.000020	<0.000020	-	0.0000270	0.0000250	-	<0.000020	<0.000020	-	<0.0001	<0.0001	-	<0.00010	<0.00010	-
Bismuth (Bi)-Dissolved	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	-	-	-	<0.000050	<0.000050	-
Boron (B)-Dissolved	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.001	<0.001	-	<0.010	<0.010	-
Cadmium (Cd)-Dissolved	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	<0.000015	<0.000015	-	0.0000300	0.0000279	7.25
Calcium (Ca)-Dissolved	21.5	21.6	0.464	3.90	3.92	0.512	6.75	6.64	1.64	5.50	5.50	0	6.18	6.91	11.2
Chromium (Cr)-Dissolved	<0.00010	<0.00010	-	0.000210	0.000200	-	0.000180	0.000200	-	0.000400	<0.0003	-	0.000130	0.000110	-
Cobalt (Co)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	0.0000300	<0.00002	-	<0.00010	<0.00010	-
Copper (Cu)-Dissolved	0.000390	0.000380	-	0.000460	0.000540	-	0.000350	0.000310	-	0.00310	0.000400	-	<0.00050	<0.00050	-
Iron (Fe)-Dissolved	0.224	0.220	1.80	0.0690	0.0680	1.46	0.0570	0.0560	1.77	0.146	0.127	13.9	0.0680	0.0690	-
Lead (Pb)-Dissolved	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	0.000230	0.0000600	-	<0.000050	<0.000050	-
Lithium (Li)-Dissolved	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.001	<0.001	-	<0.0010	<0.0010	-
Magnesium (Mg)-Dissolved	5.12	5.03	1.77	0.733	0.718	2.07	1.19	1.11	6.96	0.910	0.910	-	1.13	1.18	4.33
Manganese (Mn)-Dissolved	0.0225	0.0220	2.25	0.00133	0.00134	0.749	0.00352	0.00296	17.3	0.0106	0.0103	2.87	0.00378	0.00397	4.90
Mercury (Hg)-Dissolved	<0.0000050	<0.0000050	-	0.00000650	0.00000640	-	<0.0000050	<0.0000050	-	<0.000005	<0.000005	-	<0.0000050	<0.0000050	-
Molybdenum (Mo)-Dissolved	0.000838	0.000783	6.79	0.000109	0.000107	-	0.000288	0.000248	-	<0.00005	<0.00005	-	0.000120	0.000130	-
Nickel (Ni)-Dissolved	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	0.000440	0.000330	28.6	<0.00050	<0.00050	-
Phosphorus (P)-Dissolved	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	<0.050	-	0.0100	0.0100	-	<0.30	<0.30	-
Potassium (K)-Dissolved	0.892	0.861	3.54	0.204	0.195	-	0.224	0.213	-	0.500	0.500	-	0.548	0.594	8.06
Selenium (Se)-Dissolved	0.0000580	0.0000730	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.0006	<0.0006	-	<0.000050	<0.000050	-
Silicon (Si)-Dissolved	4.17	4.22	1.19	4.41	4.35	1.37	5.60	5.42	3.27	4.59	4.52	1.54	4.32	4.37	1.15
Silver (Ag)-Dissolved	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.00005	<0.00005	-	<0.000010	<0.000010	-
Sodium (Na)-Dissolved	4.21	3.99	5.37	1.36	1.35	0.738	2.21	2.01	9.48	2.00	2.00	-	2.00	2.10	-
Strontium (Sr)-Dissolved	0.109	0.107	1.85	0.0324	0.0322	0.619	0.0537	0.0544	1.30	0.0318	0.0315	0.948	0.0384	0.0421	9.19
Sulfur (S)-Dissolved	0.980	1.03	-	<0.50	<0.50	-	<0.50	<0.50	-	-	-	-	3.22	3.89	18.8
Thallium (Tl)-Dissolved	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.00005	<0.00005	-	<0.000010	<0.000010	-
Tin (Sn)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.0001	<0.0001	-	<0.00010	<0.00010	-
Titanium (Ti)-Dissolved	<0.00030	<0.00030	-	0.00146	0.00139	-	0.00101	0.000840	-	0.00300	0.00250	18.2	<0.010	<0.010	-
Uranium (U)-Dissolved	0.000129	0.000128	0.778	0.000128	0.000129	0.778	0.000114	0.000116	1.74	<0.00005	<0.00005	-	0.0000300	0.0000370	-
Vanadium (V)-Dissolved	<0.00050	<0.00050	-	<0.00050	<0.00050	-	0.000540	<0.00050	-	0.000100	0.0000900	-	<0.00050	<0.00050	-
Zinc (Zn)-Dissolved	<0.0010	<0.0010	-	<0.0010	0.00110	-	0.00390	<0.0010	-	0.0534	0.0520	2.66	0.0352	0.0339	3.76

Notes:
All measurements are mg/L unless otherwise noted.

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ5			WQ5			WQ5			WQ6			WQ7			WQ7		
Depth	Surface			Surface			Surface			Surface			Surface			Surface		
Date	5/17/2011			8/16/2016			8/31/2016			8/15/2011			9/19/2011			10/17/2011		
LabID				L1815654-6	L1815654-8		L1823224-8	L1823224-1										
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Physical Tests																		
pH	7.07	7.03	0.567	7.51	7.24	3.66	7.36	7.37	0.136	7.32	7.31	0.137	7.66	7.58	1.05	7.55	7.58	0.397
Conductivity	37.0	37.0	0	51.0	55.0	7.55	43.9	44.0	0.228	37.0	38.0	2.67	108	110	1.83	90.0	90.0	0
Hardness (as CaCO ₃)	-	-	-	21.9	21.6	1.38	19.2	19.3	0.519	-	-	-	-	-	-	-	-	-
Hardness, Total (as CaCO ₃)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids	-	-	-	46.0	52.0	-	46.0	47.0	-	-	-	-	-	-	-	-	-	-
Total Suspended Solids	7.00	11.0	-	<3.0	<3.0	-	<3.0	<3.0	-	< 2	< 2	-	< 2	< 2	-	< 2	< 2	-
Turbidity	3.90	2.90	29.4	0.460	0.460	-	0.510	0.480	-	1.20	0.900	28.6	1.00	0.900	10.5	1.00	0.800	22.2
Acidity (as CaCO ₃)	-	-	-	2.90	2.40	-	2.40	2.60	-	-	-	-	-	-	-	-	-	-
Alkalinity, Total (as CaCO ₃)	10.0	13.0	26.1	26.0	28.4	8.82	22.0	22.2	0.905	16.0	16.0	0	53.0	54.0	1.87	43.0	43.0	0
Anions and Nutrients																		
Total Kjeldahl Nitrogen	0.320	0.130	-	0.193	0.190	-	0.209	0.209	-	< 0.08	0.0900	-	< 0.08	0.550	-	< 0.08	< 0.08	-
Ammonia, Total (as N)	< 0.02	< 0.02	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	< 0.02	< 0.02	-	0.0400	< 0.02	-	< 0.02	< 0.02	-
Bromide (Br)	-	-	-	<0.050	<0.050	-	<0.050	<0.050	-	-	-	-	-	-	-	-	-	-
Chloride (Cl)	0.200	0.300	-	<0.50	<0.50	-	<0.50	<0.50	-	0.200	0.200	-	0.200	0.200	-	0.200	0.200	-
Fluoride (F)	0.0500	0.0500	-	0.0310	0.0310	-	0.0290	0.0290	-	0.0300	0.0300	-	0.0500	0.0500	-	0.0400	0.0400	-
Nitrate (as N)	0.0150	0.0160	-	<0.0050	0.00630	-	<0.0050	0.0142	-	< 0.005	< 0.005	-	< 0.005	< 0.005	-	< 0.005	< 0.005	-
Nitrite (as N)	< 0.003	< 0.003	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	< 0.003	< 0.003	-	< 0.003	< 0.003	-	< 0.003	< 0.003	-
Orthophosphate-Dissolved (as P)	< 0.003	< 0.003	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	0.00400	0.00400	-	0.00400	0.00700	-	0.0710	0.0640	10.4
Phosphorus (P)-Total	-	-	-	0.00540	0.00400	-	0.00870	0.00860	-	-	-	-	-	-	-	-	-	-
Phosphorus Total Dissolved	0.0140	0.0150	6.90	-	-	-	-	-	-	0.00500	0.00500	0	0.00700	0.00700	0	0.00600	0.00700	15.4
Sulfate (SO ₄)	1.50	1.50	-	<0.30	<0.30	-	<0.30	<0.30	-	0.900	0.800	-	1.80	1.90	-	1.70	1.70	-
Cyanides																		
Cyanide, Total	0.0180	0.0161	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	-	-	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Cyanide, Weak Acid Diss	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	-	-	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Thiocyanate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Organic / Inorganic Carbon																		
Dissolved Organic Carbon	22.1	21.7	1.83	7.43	7.49	0.804	8.06	8.11	0.618	5.10	5.10	0	3.60	3.70	2.74	5.20	4.80	8.00
Total Organic Carbon	20.4	20.5	0.489	7.93	7.58	4.51	8.40	8.06	4.13	5.90	5.10	14.5	3.60	3.70	2.74	5.20	4.80	8.00

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ5			WQ5			WQ5			WQ6			WQ7			WQ7		
Depth	Surface			Surface			Surface			Surface			Surface			Surface		
Date	5/17/2011			8/16/2016			8/31/2016			8/15/2011			9/19/2011			10/17/2011		
LabID				L1815654-6	L1815654-8		L1823224-8	L1823224-1										
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Total Metals																		
Aluminum (Al)-Total	0.596	0.581	2.55	0.0682	0.0684	0.293	0.0815	0.0767	6.07	0.0700	0.0700	0	0.0220	0.0220	0	0.0310	0.0300	3.28
Antimony (Sb)-Total	< 0.00005	< 0.00005	0	<0.00010	<0.00010	0	<0.00010	<0.00010	0	< 0.00005	< 0.00005	0	< 0.00005	< 0.00005	0	< 0.00005	< 0.00005	0
Arsenic (As)-Total	0.000500	0.000500	0	0.000490	0.000460	-	0.000650	0.000630	3.12	0.000800	0.000800	0	0.000500	0.000500	0	0.000400	0.000400	-
Barium (Ba)-Total	0.00627	0.00628	0.159	0.00442	0.00439	0.681	0.00419	0.00397	5.39	0.00501	0.00510	1.78	0.00845	0.00857	1.41	0.00693	0.00671	3.23
Beryllium (Be)-Total	< 0.0001	< 0.0001	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-
Bismuth (Bi)-Total	-	-	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	-	-	-	-	-	-	-	-	-
Boron (B)-Total	< 0.001	< 0.001	-	<0.010	<0.010	-	<0.010	<0.010	-	< 0.001	0.00300	-	< 0.001	< 0.001	-	0.00600	0.00300	-
Cadmium (Cd)-Total	0.0000290	0.0000410	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	< 0.000015	< 0.000015	-	0.0000200	< 0.000015	-	< 0.000015	< 0.000015	-
Calcium (Ca)-Total	4.70	4.70	0	5.97	5.98	0.167	5.40	5.18	4.16	5.10	4.80	6.06	13.8	13.9	0.722	12.4	12.3	0.810
Chromium (Cr)-Total	0.000600	0.000600	-	0.000180	0.000180	-	0.000210	0.000200	-	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	-
Cobalt (Co)-Total	0.000140	0.000130	7.41	<0.00010	<0.00010	-	<0.00010	<0.00010	-	0.0000300	0.0000300	-	0.0000700	0.0000300	-	0.0000300	0.0000300	-
Copper (Cu)-Total	0.00100	0.00340	109	<0.00050	<0.00050	-	<0.00050	<0.00050	-	0.000300	0.000200	-	0.000400	0.000300	-	0.000200	0.000100	-
Iron (Fe)-Total	0.500	0.488	2.43	0.127	0.128	-	0.269	0.256	4.95	0.108	0.108	0	0.159	0.160	0.627	0.128	0.138	7.52
Lead (Pb)-Total	0.000140	0.000110	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	< 0.00005	0.0000500	-	< 0.00005	< 0.00005	-	0.0000900	< 0.00005	-
Lithium (Li)-Total	< 0.001	< 0.001	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Magnesium (Mg)-Total	1.33	1.35	-	1.69	1.70	0.590	1.52	1.41	7.51	0.800	0.800	-	3.30	3.37	2.10	2.80	2.77	1.08
Manganese (Mn)-Total	0.0335	0.0380	12.6	0.00420	0.00441	4.88	0.00505	0.00457	9.98	0.00769	0.00766	0.391	0.0185	0.0187	1.08	0.0164	0.0164	0
Mercury (Hg)-Total	0.0000160	0.0000180	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	< 0.000008	< 0.000008	-	< 0.000008	< 0.000008	-	< 0.000008	< 0.000008	-
Molybdenum (Mo)-Total	0.000120	0.000100	-	0.00169	0.000474	112	0.000251	0.000242	-	0.000430	0.000470	8.89	0.000740	0.000700	5.56	0.000510	0.000490	4.00
Nickel (Ni)-Total	0.000540	0.000540	0	<0.00050	<0.00050	-	<0.00050	<0.00050	-	0.000170	0.000170	-	< 0.00005	< 0.00005	-	0.000130	0.000160	-
Phosphorus (P)-Total	0.0300	0.0300	-	<0.30	<0.30	-	<0.30	<0.30	-	< 0.02	< 0.02	-	< 0.02	< 0.02	-	< 0.02	< 0.02	-
Potassium (K)-Total	< 0.5	< 0.5	-	0.270	0.269	0.371	0.295	0.282	4.51	< 0.5	< 0.5	-	0.500	0.500	-	< 0.5	< 0.5	-
Selenium (Se)-Total	< 0.0006	< 0.0006	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	< 0.0006	< 0.0006	-	< 0.0006	< 0.0006	-	< 0.0006	< 0.0006	-
Silicon (Si)-Total	5.21	4.80	8.19	5.75	5.58	3.00	5.21	4.94	5.32	5.20	5.32	2.28	6.25	6.33	1.27	6.30	6.30	0
Silver (Ag)-Total	< 0.00005	< 0.00005	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Sodium (Na)-Total	1.90	1.90	-	2.60	2.60	-	2.40	2.30	-	2.00	2.00	-	3.30	3.40	2.99	2.90	3.00	3.39
Strontium (Sr)-Total	0.0302	0.0298	1.33	0.0425	0.0424	0.236	0.0399	0.0374	6.47	0.0388	0.0386	0.517	0.0883	0.0902	2.13	0.0713	0.0717	0.559
Sulfur (S)-Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium (Tl)-Total	< 0.00005	< 0.00005	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Tin (Sn)-Total	< 0.0001	< 0.0001	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-
Titanium (Ti)-Total	0.0137	0.0122	11.6	<0.010	<0.010	-	<0.010	<0.010	-	0.00130	0.00100	26.1	0.000600	0.000800	-	0.000800	0.000600	-
Uranium (U)-Total	0.000130	0.000130	-	0.0000620	0.0000610	1.63	0.0000530	0.0000520	1.90	0.000150	0.000140	-	0.000150	0.000160	-	0.000110	0.000110	-
Vanadium (V)-Total	0.00100	0.00100	0	0.000620	0.000650	-	0.000690	0.000600	-	0.000100	0.000100	-	0.000300	0.000300	-	0.000200	0.000200	-
Zinc (Zn)-Total	0.00460	0.00540	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-	0.00100	0.00160	-	0.00140	< 0.0005	-	< 0.0005	< 0.0005	-

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ5			WQ5			WQ5			WQ6			WQ7			WQ7		
Depth	Surface			Surface			Surface			Surface			Surface			Surface		
Date	5/17/2011			8/16/2016			8/31/2016			8/15/2011			9/19/2011			10/17/2011		
LabID				L1815654-6	L1815654-8		L1823224-8	L1823224-1										
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Dissolved Metals																		
Aluminum (Al)-Dissolved	0.253	0.307	19.3	0.0595	0.0579	2.73	0.0604	0.0621	2.78	0.0480	0.0460	4.26	0.0120	0.0100	18.2	0.0190	0.0190	0
Antimony (Sb)-Dissolved	< 0.00005	< 0.00005	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Arsenic (As)-Dissolved	0.000300	0.000300	-	0.000460	0.000450	-	0.000600	0.000610	1.65	0.000700	0.000700	0	0.000500	0.000500	0	0.000400	0.000400	-
Barium (Ba)-Dissolved	0.00403	0.00398	1.25	0.00446	0.00442	0.901	0.00399	0.00398	0.251	0.00465	0.00461	0.864	0.00845	0.00853	0.942	0.00656	0.00666	1.51
Beryllium (Be)-Dissolved	< 0.0001	< 0.0001	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-
Bismuth (Bi)-Dissolved	-	-	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	-	-	-	-	-	-	-	-	-
Boron (B)-Dissolved	< 0.001	< 0.001	-	<0.010	<0.010	-	<0.010	<0.010	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-	0.00100	< 0.001	-
Cadmium (Cd)-Dissolved	0.0000290	< 0.000015	-	<0.0000050	<0.0000050	-	<0.0000050	0.00000800	-	< 0.000015	< 0.000015	-	0.0000200	< 0.000015	-	< 0.000015	< 0.000015	-
Calcium (Ca)-Dissolved	4.60	4.50	2.20	5.93	5.86	1.19	5.28	5.29	0.189	4.50	4.50	0	13.8	13.8	0	11.5	11.6	0.866
Chromium (Cr)-Dissolved	0.000500	0.000400	-	0.000140	0.000130	-	0.000150	0.000160	-	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	-
Cobalt (Co)-Dissolved	0.0000600	0.0000700	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	0.0000300	0.0000200	-	0.0000700	< 0.00002	-	0.0000300	0.0000300	-
Copper (Cu)-Dissolved	0.000800	0.00340	124	<0.00050	<0.00050	-	<0.00050	<0.00050	-	0.000300	0.000200	-	0.000400	0.000300	-	< 0.0001	< 0.0001	-
Iron (Fe)-Dissolved	0.174	0.216	21.5	0.102	0.102	-	0.206	0.220	6.57	0.0669	0.0652	2.57	0.128	0.127	0.784	0.100	0.102	1.98
Lead (Pb)-Dissolved	< 0.00005	< 0.00005	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	0.0000900	< 0.00005	-
Lithium (Li)-Dissolved	< 0.001	< 0.001	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Magnesium (Mg)-Dissolved	1.33	1.35	-	1.72	1.70	1.17	1.47	1.48	0.678	0.770	0.770	-	3.25	3.23	0.617	2.74	2.74	0
Manganese (Mn)-Dissolved	0.00858	0.00938	8.91	0.00361	0.00361	0	0.00325	0.00352	7.98	0.00542	0.00534	1.49	0.0163	0.0161	1.23	0.0148	0.0150	1.34
Mercury (Hg)-Dissolved	0.0000160	0.0000170	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	< 0.000008	< 0.000008	-	< 0.000008	< 0.000008	-	< 0.000008	< 0.000008	-
Molybdenum (Mo)-Dissolved	0.0000500	0.0000600	-	0.000205	0.000202	-	0.000212	0.000221	-	0.000390	0.000420	7.41	0.000740	0.000690	6.99	0.000500	0.000470	6.19
Nickel (Ni)-Dissolved	0.000290	0.000310	6.67	<0.00050	<0.00050	-	<0.00050	<0.00050	-	0.000170	0.000150	-	< 0.00005	< 0.00005	-	0.000130	0.000160	-
Phosphorus (P)-Dissolved	0.0100	0.0100	-	<0.30	<0.30	-	<0.30	<0.30	-	< 0.01	< 0.01	-	< 0.01	< 0.01	-	< 0.01	< 0.01	-
Potassium (K)-Dissolved	< 0.5	< 0.5	-	0.267	0.269	0.746	0.295	0.299	1.35	< 0.5	< 0.5	-	0.500	0.500	-	< 0.5	0.500	-
Selenium (Se)-Dissolved	< 0.0006	< 0.0006	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	< 0.0006	< 0.0006	-	< 0.0006	< 0.0006	-	< 0.0006	< 0.0006	-
Silicon (Si)-Dissolved	4.50	4.80	6.45	5.70	5.62	1.41	4.99	4.96	0.603	5.20	5.14	1.16	6.25	6.33	1.27	6.17	6.18	0.162
Silver (Ag)-Dissolved	< 0.00005	< 0.00005	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Sodium (Na)-Dissolved	1.90	1.90	-	2.60	2.60	-	2.30	2.40	-	1.90	1.90	-	3.20	3.20	0	2.90	3.00	3.39
Strontium (Sr)-Dissolved	0.0260	0.0255	1.94	0.0423	0.0421	0.474	0.0383	0.0375	2.11	0.0371	0.0378	1.87	0.0883	0.0902	2.13	0.0713	0.0717	0.559
Sulfur (S)-Dissolved	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium (Tl)-Dissolved	< 0.00005	< 0.00005	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Tin (Sn)-Dissolved	< 0.0001	< 0.0001	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-
Titanium (Ti)-Dissolved	0.00230	0.00440	62.7	<0.010	<0.010	-	<0.010	<0.010	-	0.000700	0.000500	-	0.000400	< 0.0002	-	0.000300	0.000200	-
Uranium (U)-Dissolved	0.0000700	0.0000700	-	0.0000550	0.0000550	0	0.0000500	0.0000550	9.52	0.000140	0.000130	-	0.000140	0.000150	-	0.000110	0.000110	-
Vanadium (V)-Dissolved	0.000460	0.000570	21.4	0.000530	0.000510	-	<0.00050	<0.00050	-	0.0000900	0.0000800	-	0.000170	0.0000800	-	0.000200	0.000200	-
Zinc (Zn)-Dissolved	0.00200	0.00540	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-	0.00100	0.000600	-	0.00140	< 0.0005	-	< 0.0005	< 0.0005	-

Notes:
All measurements are mg/L unless otherwise noted.

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ7			WQ7			WQ7			WQ7			WQ7			WQ7		
Depth	Surface			Surface			Surface			Surface			Surface			Surface		
Date	12/13/2011			2/13/2012			4/17/2012			5/28/2012			7/16/2012			8/13/2012		
LabID																		
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Physical Tests																		
pH	7.40	7.52	1.61	7.86	7.88	0.254	7.89	7.83	0.763	7.45	7.39	0.809	7.74	7.65	1.17	7.82	7.86	0.510
Conductivity	105	110	4.65	131	126	3.89	105	101	3.88	40.0	42.0	4.88	74.0	75.0	1.34	87.0	88.0	1.14
Hardness (as CaCO ₃)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardness, Total (as CaCO ₃)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids	-	-	-	-	-	-	-	-	-	-	-	-	60.0	84.0	33.3	60.0	76.0	23.5
Total Suspended Solids	11.0	8.00	-	2.00	< 2	-	< 2	< 2	-	37.0	40.0	7.79	3.00	4.00	-	< 2	2.00	-
Turbidity	4.40	2.80	44.4	1.70	1.00	51.9	1.60	1.50	6.45	13.0	12.0	8.00	1.30	1.10	16.7	1.60	1.60	0
Acidity (as CaCO ₃)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Total (as CaCO ₃)	50.0	53.0	5.83	64.0	62.0	3.17	52.0	52.0	0	17.0	17.0	0	42.0	43.0	2.35	44.0	44.0	0
Anions and Nutrients																		
Total Kjeldahl Nitrogen	0.110	< 0.08	-	0.270	0.140	-	0.200	0.180	-	0.190	0.150	-	0.110	< 0.08	-	0.0900	0.100	-
Ammonia, Total (as N)	< 0.02	< 0.02	-	< 0.01	< 0.01	-	< 0.02	< 0.02	-	0.0200	0.0200	-	< 0.02	< 0.02	-	< 0.02	< 0.02	-
Bromide (Br)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride (Cl)	0.300	0.500	-	0.400	0.300	-	0.400	0.400	-	2.00	1.50	28.6	0.600	0.600	0	< 0.1	< 0.1	-
Fluoride (F)	0.0500	0.0500	-	0.0600	0.0600	-	0.0700	0.0700	-	0.0800	0.0500	-	0.0700	0.0700	-	< 0.02	< 0.02	-
Nitrate (as N)	0.0100	0.0120	-	0.0130	0.0120	-	< 0.005	< 0.005	-	0.00800	0.0120	-	0.0110	0.00900	-	< 0.005	< 0.005	-
Nitrite (as N)	< 0.003	< 0.003	-	0.00500	0.00600	-	0.0110	0.0130	-	0.00400	0.00500	-	0.00300	0.00300	-	< 0.003	< 0.003	-
Orthophosphate-Dissolved (as P)	< 0.003	0.00300	-	< 0.003	0.00700	-	< 0.003	0.00600	-	< 0.003	< 0.003	-	< 0.003	< 0.003	-	< 0.003	< 0.003	-
Phosphorus (P)-Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phosphorus Total Dissolved	0.00100	0.00100	-	0.00400	0.00300	-	0.0200	0.0210	4.88	0.00300	0.00300	-	< 0.001	0.00300	-	0.0120	0.0110	8.70
Sulfate (SO ₄)	2.10	2.20	-	3.40	3.40	0	1.90	1.70	-	0.900	1.00	-	1.30	1.30	-	2.60	2.60	0
Cyanides																		
Cyanide, Total	-	-	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Cyanide, Weak Acid Diss	-	-	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Thiocyanate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Organic / Inorganic Carbon																		
Dissolved Organic Carbon	3.40	3.60	5.71	2.40	2.20	8.70	12.9	13.0	0.772	11.8	11.9	0.844	5.30	5.60	5.50	5.40	5.50	1.83
Total Organic Carbon	3.70	3.60	2.74	2.90	2.20	27.5	13.2	13.3	0.755	11.8	11.9	0.844	5.50	5.70	3.57	5.40	5.70	5.41

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ7			WQ7			WQ7			WQ7			WQ7			WQ7		
Depth	Surface			Surface			Surface			Surface			Surface			Surface		
Date	12/13/2011			2/13/2012			4/17/2012			5/28/2012			7/16/2012			8/13/2012		
LabID																		
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Total Metals																		
Aluminum (Al)-Total	0.229	0.0520	126	0.0500	0.0230	74.0	0.0910	0.0940	3.24	0.266	0.291	8.98	0.0510	0.0520	1.94	0.0520	0.0400	26.1
Antimony (Sb)-Total	< 0.00005	< 0.00005	0	< 0.00005	< 0.00005	0	< 0.00005	< 0.00005	0	< 0.00005	< 0.00005	0	< 0.00005	< 0.00005	0	< 0.00005	< 0.00005	0
Arsenic (As)-Total	0.000600	0.000500	18.2	0.000500	0.000400	-	0.000400	0.000400	-	0.000500	0.000500	0	0.000600	0.000500	18.2	0.000600	0.000600	0
Barium (Ba)-Total	0.0126	0.00923	30.9	0.0151	0.0109	32.3	0.0102	0.0101	0.985	0.00668	0.00701	4.82	0.00725	0.00719	0.831	0.00821	0.00804	2.09
Beryllium (Be)-Total	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-
Bismuth (Bi)-Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron (B)-Total	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-	0.00200	0.00100	-
Cadmium (Cd)-Total	0.0000290	0.0000520	-	0.0000540	< 0.000015	-	< 0.000015	0.0000920	-	0.0000250	0.0000180	-	< 0.000015	< 0.000015	-	< 0.000015	< 0.000015	-
Calcium (Ca)-Total	14.7	14.5	1.37	18.3	17.2	6.20	15.1	15.0	0.664	4.90	4.80	2.06	9.60	9.70	1.04	11.7	11.6	0.858
Chromium (Cr)-Total	0.000500	< 0.0003	-	0.000600	< 0.0003	-	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	-
Cobalt (Co)-Total	0.000170	0.0000600	-	< 0.00002	0.0000200	-	0.0000500	0.0000600	-	0.0000500	0.0000700	-	< 0.00002	< 0.00002	-	0.0000500	0.0000400	-
Copper (Cu)-Total	0.000800	0.000400	-	0.000700	0.000200	-	0.000300	0.000300	-	0.000400	0.000400	-	0.000400	0.000300	-	< 0.0001	< 0.0001	-
Iron (Fe)-Total	0.506	0.171	99.0	0.152	0.109	33.0	0.217	0.223	2.73	0.282	0.327	14.8	0.118	0.119	0.844	0.194	0.194	0
Lead (Pb)-Total	0.000130	< 0.00005	-	0.000100	< 0.00005	-	< 0.00005	0.000740	-	< 0.00005	0.0000600	-	< 0.00005	< 0.00005	-	0.000370	< 0.00005	-
Lithium (Li)-Total	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Magnesium (Mg)-Total	3.45	3.38	2.05	3.96	3.71	6.52	3.75	3.85	2.63	1.11	1.13	-	2.11	2.11	-	2.58	2.61	1.16
Manganese (Mn)-Total	0.0529	0.0251	71.3	0.0195	0.0191	2.07	0.0169	0.0172	1.76	0.0174	0.0209	18.3	0.0144	0.0146	1.38	0.0225	0.0219	2.70
Mercury (Hg)-Total	< 0.000008	< 0.000008	-	< 0.000008	< 0.000008	-	< 0.000008	< 0.000008	-	< 0.000005	< 0.000005	-	0.00000600	< 0.000005	-	< 0.000005	< 0.000005	-
Molybdenum (Mo)-Total	0.000700	0.000660	5.88	0.000860	0.000790	8.48	0.000570	0.000630	10.0	0.000170	0.000180	-	0.000480	0.000520	8.00	0.000600	0.000940	44.2
Nickel (Ni)-Total	0.000450	0.000240	-	0.000420	0.000160	-	0.000290	0.000290	-	0.000100	0.000250	-	0.000250	0.000210	-	0.000770	0.000230	-
Phosphorus (P)-Total	0.0200	< 0.02	-	< 0.02	< 0.02	-	0.0300	0.0300	-	< 0.02	< 0.02	-	< 0.02	< 0.02	-	< 0.02	< 0.02	-
Potassium (K)-Total	0.600	< 0.5	-	0.600	0.600	-	1.60	1.60	-	< 0.5	< 0.5	-	< 0.5	< 0.5	-	0.600	0.600	-
Selenium (Se)-Total	< 0.0006	< 0.0006	-	< 0.0006	< 0.0006	-	< 0.0006	< 0.0006	-	< 0.0006	< 0.0006	-	< 0.0006	< 0.0006	-	< 0.0006	< 0.0006	-
Silicon (Si)-Total	6.58	6.47	1.69	7.08	6.51	8.39	5.30	5.57	4.97	4.69	4.65	0.857	5.91	6.54	10.1	6.70	6.91	3.09
Silver (Ag)-Total	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Sodium (Na)-Total	3.40	3.30	2.99	3.80	3.50	8.22	3.10	3.20	3.17	1.80	1.80	-	2.70	2.70	0	3.20	3.20	0
Strontium (Sr)-Total	0.0901	0.0880	2.36	0.110	0.103	6.57	0.0800	0.0788	1.51	0.0344	0.0338	1.76	0.0645	0.0640	0.778	0.0804	0.0807	0.372
Sulfur (S)-Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium (Tl)-Total	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Tin (Sn)-Total	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-
Titanium (Ti)-Total	0.00980	0.00210	129	0.00230	0.00120	62.9	0.00310	0.00320	3.17	0.00450	0.00610	30.2	0.00120	0.00150	22.2	0.00110	0.00110	0
Uranium (U)-Total	0.000200	0.000160	-	0.000250	0.000230	-	0.000150	0.000240	-	0.000180	0.000180	-	0.0000900	0.0000800	-	0.000120	0.000120	-
Vanadium (V)-Total	0.000900	0.000400	-	0.000300	0.000200	-	0.000400	0.000400	-	0.000700	0.000900	25.0	0.000500	0.000500	0	0.000600	0.000600	0
Zinc (Zn)-Total	0.0112	0.00920	19.6	0.0681	0.0240	95.8	< 0.0005	0.000700	-	0.00120	0.00100	-	< 0.0005	0.000700	-	0.0108	< 0.0005	-

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ7			WQ7			WQ7			WQ7			WQ7			WQ7		
Depth	Surface			Surface			Surface			Surface			Surface			Surface		
Date	12/13/2011			2/13/2012			4/17/2012			5/28/2012			7/16/2012			8/13/2012		
LabID																		
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Dissolved Metals																		
Aluminum (Al)-Dissolved	0.0100	0.00900	-	< 0.002	< 0.002	-	0.0270	0.0290	7.14	0.161	0.139	14.7	0.0250	0.0240	4.08	0.0190	0.0200	5.13
Antimony (Sb)-Dissolved	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	0.000140	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Arsenic (As)-Dissolved	0.000400	0.000400	-	0.000300	0.000300	-	0.000400	0.000400	-	0.000300	0.000300	-	0.000500	0.000400	-	0.000600	0.000600	0
Barium (Ba)-Dissolved	0.00860	0.00851	1.05	0.00908	0.00861	5.31	0.00960	0.00962	0.208	0.00456	0.00434	4.94	0.00701	0.00693	1.15	0.00809	0.00804	0.620
Beryllium (Be)-Dissolved	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-
Bismuth (Bi)-Dissolved	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron (B)-Dissolved	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-	0.00200	0.00100	-
Cadmium (Cd)-Dissolved	< 0.000015	0.0000170	-	< 0.000015	< 0.000015	-	< 0.000015	0.0000920	-	0.0000250	0.0000180	-	< 0.000015	< 0.000015	-	< 0.000015	< 0.000015	-
Calcium (Ca)-Dissolved	14.7	14.5	1.37	16.5	16.2	1.83	14.7	15.0	2.02	4.90	4.80	2.06	9.30	9.20	1.08	11.7	11.6	0.858
Chromium (Cr)-Dissolved	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	-
Cobalt (Co)-Dissolved	0.0000300	0.0000300	-	0.0000300	0.0000200	-	0.0000400	0.0000400	-	0.0000300	< 0.00002	-	< 0.00002	< 0.00002	-	0.0000300	0.0000400	-
Copper (Cu)-Dissolved	0.000300	0.000300	-	0.000300	0.000200	-	0.000300	0.000300	-	0.000400	0.000400	-	< 0.0001	0.000100	-	< 0.0001	< 0.0001	-
Iron (Fe)-Dissolved	0.0851	0.0871	2.32	0.0472	0.0507	7.15	0.123	0.129	4.76	0.119	0.102	15.4	0.0727	0.0718	1.25	0.145	0.148	2.05
Lead (Pb)-Dissolved	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	0.000140	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Lithium (Li)-Dissolved	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Magnesium (Mg)-Dissolved	3.38	3.38	0	3.60	3.53	1.96	3.75	3.85	2.63	1.08	1.06	-	2.10	2.07	-	2.58	2.61	1.16
Manganese (Mn)-Dissolved	0.0207	0.0209	0.962	0.0139	0.0132	5.17	0.0143	0.0147	2.76	0.00591	0.00537	9.57	0.0107	0.0104	2.84	0.0188	0.0190	1.06
Mercury (Hg)-Dissolved	< 0.000008	< 0.000008	-	< 0.000008	< 0.000008	-	< 0.000008	< 0.000008	-	< 0.000005	< 0.000005	-	< 0.000005	< 0.000005	-	< 0.000005	< 0.000005	-
Molybdenum (Mo)-Dissolved	0.000680	0.000630	7.63	0.000710	0.000730	2.78	0.000540	0.000510	5.71	0.000170	0.000180	-	0.000470	0.000460	2.15	0.000550	0.000940	52.3
Nickel (Ni)-Dissolved	0.0000600	0.000100	-	0.000150	0.000130	-	0.000270	0.000250	7.69	0.000100	0.000250	-	0.000120	0.000150	-	0.000240	0.000230	-
Phosphorus (P)-Dissolved	< 0.01	< 0.01	-	< 0.01	< 0.01	-	0.0200	0.0200	-	< 0.01	< 0.01	-	< 0.01	< 0.01	-	< 0.01	< 0.01	-
Potassium (K)-Dissolved	< 0.5	< 0.5	-	0.500	0.500	-	1.50	1.50	-	< 0.5	< 0.5	-	< 0.5	< 0.5	-	0.600	0.600	-
Selenium (Se)-Dissolved	< 0.0006	< 0.0006	-	< 0.0006	< 0.0006	-	< 0.0006	< 0.0006	-	< 0.0006	< 0.0006	-	< 0.0006	< 0.0006	-	< 0.0006	< 0.0006	-
Silicon (Si)-Dissolved	6.53	6.47	0.923	6.50	6.45	0.772	4.99	5.27	5.46	4.69	4.65	0.857	5.86	5.82	0.685	6.70	6.91	3.09
Silver (Ag)-Dissolved	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Sodium (Na)-Dissolved	3.30	3.30	0	3.50	3.40	2.90	3.10	3.20	3.17	1.80	1.80	-	2.70	2.70	0	3.20	3.20	0
Strontium (Sr)-Dissolved	0.0901	0.0880	2.36	0.0984	0.0972	1.23	0.0800	0.0739	7.93	0.0344	0.0338	1.76	0.0645	0.0640	0.778	0.0804	0.0807	0.372
Sulfur (S)-Dissolved	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium (Tl)-Dissolved	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Tin (Sn)-Dissolved	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-
Titanium (Ti)-Dissolved	0.000200	< 0.0002	-	< 0.0002	< 0.0002	-	0.000500	0.000600	-	0.00190	0.00120	45.2	0.000300	0.000400	-	0.000400	0.000400	-
Uranium (U)-Dissolved	0.000150	0.000150	-	0.000220	0.000220	-	0.000150	0.000240	-	0.000140	0.000130	-	0.0000900	0.0000800	-	0.000100	0.000110	-
Vanadium (V)-Dissolved	0.000180	0.000190	-	< 0.00005	< 0.00005	-	0.000130	0.000130	-	0.000270	0.000250	7.69	0.000430	0.000410	4.76	0.000570	0.000580	1.74
Zinc (Zn)-Dissolved	0.00900	0.00560	46.6	0.0276	0.0111	85.3	< 0.0005	< 0.0005	-	0.00120	< 0.0005	-	< 0.0005	0.000700	-	0.00250	< 0.0005	-

Notes:
All measurements are mg/L unless otherwise noted.

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ7			WQ7			WQ7			WQ7			WQ7			WQ7		
Depth	Surface			Surface			Surface			Surface			Surface			Surface		
Date	11/12/2012			1/15/2013			2/13/2013			4/16/2013			6/4/2013			6/18/2013		
LabID																		
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Physical Tests																		
pH	7.87	7.77	1.28	7.66	7.64	0.261	7.78	7.77	0.129	7.79	7.74	0.644	7.35	7.37	0.272	7.46	7.48	0.268
Conductivity	111	113	1.79	131	131	0	128	127	0.784	116	118	1.71	44.0	44.0	0	56.0	56.0	0
Hardness (as CaCO ₃)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardness, Total (as CaCO ₃)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids	72.0	112	43.5	84.0	88.0	4.65	68.0	76.0	11.1	52.0	52.0	0	20.0	24.0	18.2	40.0	76.0	62.1
Total Suspended Solids	< 2	< 2	-	5.00	2.00	-	3.00	< 2	-	< 2	< 2	-	14.0	15.0	6.90	10.0	12.0	18.2
Turbidity	0.900	0.900	0	3.80	1.60	81.5	0.700	0.600	15.4	1.20	0.900	28.6	4.10	3.80	7.59	3.50	2.80	22.2
Acidity (as CaCO ₃)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Total (as CaCO ₃)	61.0	60.0	1.65	68.0	69.0	1.46	66.0	66.0	0	55.0	54.0	1.83	18.0	20.0	10.5	25.0	26.0	3.92
Anions and Nutrients																		
Total Kjeldahl Nitrogen	0.460	0.400	14.0	< 0.08	< 0.08	-	0.160	< 0.08	-	0.240	0.250	-	0.120	0.120	-	0.500	0.650	26.1
Ammonia, Total (as N)	< 0.02	< 0.02	-	< 0.02	< 0.02	-	< 0.02	< 0.02	-	< 0.02	< 0.02	-	< 0.02	< 0.02	-	< 0.02	< 0.02	-
Bromide (Br)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride (Cl)	0.300	0.300	-	0.500	0.300	-	0.500	0.400	-	0.500	0.500	0	0.300	0.300	-	0.300	0.300	-
Fluoride (F)	0.0500	0.0500	-	0.0600	0.0600	-	0.0700	0.0700	-	0.0800	0.0800	-	0.0300	0.0300	-	0.0400	0.0400	-
Nitrate (as N)	< 0.005	0.00900	-	0.0860	0.0600	35.6	0.0400	0.0430	7.23	0.0320	0.121	116	0.0360	0.0170	-	0.0250	0.00900	-
Nitrite (as N)	< 0.003	< 0.003	-	< 0.003	< 0.003	-	< 0.003	< 0.003	-	< 0.003	< 0.003	-	< 0.003	< 0.003	-	< 0.003	< 0.003	-
Orthophosphate-Dissolved (as P)	< 0.003	< 0.003	-	< 0.003	< 0.003	-	< 0.003	< 0.003	-	< 0.003	< 0.003	-	< 0.003	< 0.003	-	< 0.003	< 0.003	-
Phosphorus (P)-Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phosphorus Total Dissolved	0.00200	0.00600	-	0.0120	0.0190	45.2	0.00700	0.00200	-	0.00900	0.0210	80.0	0.0130	0.0130	0	0.0260	0.0310	17.5
Sulfate (SO ₄)	2.50	2.50	0	3.60	3.60	0	3.40	3.30	2.99	3.10	3.20	3.17	0.800	0.800	-	0.800	0.800	-
Cyanides																		
Cyanide, Total	<0.0050	<0.0050	-	-	-	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Cyanide, Weak Acid Diss	<0.0050	<0.0050	-	-	-	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Thiocyanate	-	-	-	-	-	-	-	-	-	<0.5	<0.5	-	-	-	-	-	-	-
Organic / Inorganic Carbon																		
Dissolved Organic Carbon	3.70	3.80	2.67	2.90	3.00	3.39	3.10	3.40	9.23	7.10	7.20	1.40	10.4	10.5	0.957	10.7	10.7	0
Total Organic Carbon	3.80	3.80	0	2.90	3.20	9.84	3.10	3.40	9.23	7.10	7.20	1.40	10.4	10.5	0.957	10.7	10.7	0

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ7			WQ7			WQ7			WQ7			WQ7			WQ7		
Depth	Surface			Surface			Surface			Surface			Surface			Surface		
Date	11/12/2012			1/15/2013			2/13/2013			4/16/2013			6/4/2013			6/18/2013		
LabID																		
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Total Metals																		
Aluminum (Al)-Total	0.0300	0.0210	35.3	0.0650	0.0260	85.7	0.0390	0.0100	118	0.0350	0.0300	15.4	0.194	0.185	4.75	0.142	0.150	5.48
Antimony (Sb)-Total	< 0.00005	< 0.00005	0	< 0.00005	< 0.00005	0	< 0.00005	< 0.00005	0	< 0.00005	< 0.00005	0	< 0.00005	< 0.00005	0	0.0000500	0.0000700	-
Arsenic (As)-Total	0.000300	0.000300	-	0.000400	0.000400	-	0.000300	0.000300	-	0.000400	0.000400	-	0.000400	0.000400	-	0.000300	0.000300	-
Barium (Ba)-Total	0.00873	0.00887	1.59	0.0121	0.0114	5.96	0.00903	0.00813	10.5	0.00857	0.00840	2.00	0.00581	0.00582	0.172	0.00646	0.00670	3.65
Beryllium (Be)-Total	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-
Bismuth (Bi)-Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron (B)-Total	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-	0.00200	0.00200	-	< 0.001	< 0.001	-
Cadmium (Cd)-Total	< 0.000015	< 0.000015	-	0.0000180	< 0.000015	-	0.000105	0.0000170	-	< 0.000015	< 0.000015	-	< 0.000015	< 0.000015	-	< 0.000015	< 0.000015	-
Calcium (Ca)-Total	14.7	14.9	1.35	19.0	18.6	2.13	17.1	17.5	2.31	15.0	14.7	2.02	6.30	6.30	0	8.00	7.90	1.26
Chromium (Cr)-Total	0.000300	< 0.0003	-	< 0.0003	< 0.0003	-	0.000500	< 0.0003	-	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	-
Cobalt (Co)-Total	0.0000500	0.0000400	-	0.0000800	0.0000500	-	0.0000600	0.0000300	-	0.0000500	0.0000500	-	0.0000900	0.0000900	-	0.0000700	0.0000800	-
Copper (Cu)-Total	< 0.0001	< 0.0001	-	0.000300	0.000300	-	0.00110	< 0.0001	-	0.000300	0.000300	-	0.000700	0.000700	0	< 0.0001	< 0.0001	-
Iron (Fe)-Total	0.114	0.113	0.881	0.228	0.147	43.2	0.158	0.109	36.7	0.170	0.167	1.78	0.204	0.208	1.94	0.157	0.172	9.12
Lead (Pb)-Total	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	0.0000700	< 0.00005	-	< 0.00005	< 0.00005	-	0.0000800	0.0000700	-	< 0.00005	0.0000600	-
Lithium (Li)-Total	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Magnesium (Mg)-Total	3.64	3.71	1.90	4.24	4.22	0.473	4.00	3.96	1.01	3.82	3.74	2.12	1.35	1.34	-	1.66	1.68	-
Manganese (Mn)-Total	0.0234	0.0233	0.428	0.0752	0.0287	89.5	0.0271	0.0225	18.5	0.0181	0.0176	2.80	0.0139	0.0149	6.94	0.0120	0.0140	15.4
Mercury (Hg)-Total	< 0.000005	< 0.000005	-	< 0.000005	< 0.000005	-	< 0.000005	< 0.000005	-	< 0.000005	< 0.000005	-	< 0.000005	< 0.000005	-	< 0.000005	< 0.000005	-
Molybdenum (Mo)-Total	0.000580	0.000600	3.39	0.000780	0.000750	3.92	0.000780	0.000800	2.53	0.000630	0.000600	4.88	0.000250	0.000260	3.92	0.000280	0.000280	0
Nickel (Ni)-Total	0.000170	0.000180	-	0.000130	0.000130	-	0.000210	0.0000500	-	0.000260	0.000250	-	0.000560	0.000310	-	0.000270	0.000240	-
Phosphorus (P)-Total	< 0.02	< 0.02	-	0.0200	0.0200	-	< 0.02	< 0.02	-	0.0100	< 0.01	-	0.0200	0.0200	-	0.0200	0.0200	-
Potassium (K)-Total	0.500	0.500	-	0.700	0.600	-	1.00	0.600	-	0.700	0.700	-	< 0.5	< 0.5	-	< 0.5	< 0.5	-
Selenium (Se)-Total	< 0.0006	< 0.0006	-	< 0.0006	< 0.0006	-	< 0.0006	< 0.0006	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-
Silicon (Si)-Total	6.43	6.77	5.15	6.38	6.68	4.59	6.28	6.17	1.77	5.55	5.76	3.71	4.74	4.66	1.70	4.82	4.68	2.95
Silver (Ag)-Total	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Sodium (Na)-Total	3.60	3.70	2.74	4.10	4.00	2.47	4.00	4.00	0	3.60	3.40	5.71	2.10	2.00	-	2.30	2.30	-
Strontium (Sr)-Total	0.0889	0.0910	2.33	0.107	0.107	0	0.0992	0.0989	0.303	0.0889	0.0886	0.338	0.0390	0.0394	1.02	0.0488	0.0486	0.411
Sulfur (S)-Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium (Tl)-Total	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Tin (Sn)-Total	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-
Titanium (Ti)-Total	0.000800	0.000600	-	0.00340	0.00180	61.5	0.00230	0.000600	-	0.00110	0.000800	-	0.00350	0.00360	2.82	0.00260	0.00310	17.5
Uranium (U)-Total	0.000170	0.000170	-	0.000270	0.000260	3.77	0.000220	0.000210	-	0.000180	0.000180	-	0.000170	0.000180	-	0.000140	0.000140	-
Vanadium (V)-Total	< 0.0001	< 0.0001	-	0.000200	< 0.0001	-	< 0.0001	< 0.0001	-	0.000130	0.000130	-	0.000260	0.000260	-	< 0.00005	< 0.00005	-
Zinc (Zn)-Total	0.0180	< 0.0005	-	0.0197	0.00740	90.8	0.0178	0.00740	82.5	0.000700	< 0.0005	-	0.00170	0.00270	-	0.00180	< 0.0005	-

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ7			WQ7			WQ7			WQ7			WQ7			WQ7		
Depth	Surface			Surface			Surface			Surface			Surface			Surface		
Date	11/12/2012			1/15/2013			2/13/2013			4/16/2013			6/4/2013			6/18/2013		
LabID																		
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Dissolved Metals																		
Aluminum (Al)-Dissolved	0.0110	0.0110	0	0.00800	0.00800	-	0.0120	0.0100	18.2	0.0180	0.0190	5.41	0.128	0.128	0	0.112	0.114	1.77
Antimony (Sb)-Dissolved	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	0.0000700	-
Arsenic (As)-Dissolved	0.000300	0.000300	-	0.000300	0.000300	-	0.000300	0.000300	-	0.000400	0.000400	-	0.000300	0.000300	-	< 0.0001	< 0.0001	-
Barium (Ba)-Dissolved	0.00841	0.00850	1.06	0.00959	0.00944	1.58	0.00824	0.00813	1.34	0.00817	0.00822	0.610	0.00440	0.00454	3.13	0.00518	0.00536	3.42
Beryllium (Be)-Dissolved	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-
Bismuth (Bi)-Dissolved	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron (B)-Dissolved	< 0.001	< 0.001	-	< 0.001	< 0.001	-	0.00100	< 0.001	-	< 0.001	< 0.001	-	0.00200	0.00100	-	< 0.001	< 0.001	-
Cadmium (Cd)-Dissolved	< 0.000015	< 0.000015	-	0.0000180	0.0000150	-	0.0000210	< 0.000015	-	< 0.000015	< 0.000015	-	< 0.000015	< 0.000015	-	< 0.000015	< 0.000015	-
Calcium (Ca)-Dissolved	14.4	14.6	1.38	18.3	18.6	1.63	17.1	17.5	2.31	14.5	14.5	0	6.20	6.20	0	7.30	7.30	0
Chromium (Cr)-Dissolved	0.000300	< 0.0003	-	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	-
Cobalt (Co)-Dissolved	0.0000400	0.0000400	-	0.0000400	0.0000300	-	0.0000200	< 0.00002	-	0.0000400	0.0000400	-	0.0000900	0.0000400	-	0.0000400	0.0000400	-
Copper (Cu)-Dissolved	< 0.0001	< 0.0001	-	0.000300	0.000300	-	0.00110	0.000500	75.0	0.000300	0.000300	-	0.000700	0.000700	0	< 0.0001	< 0.0001	-
Iron (Fe)-Dissolved	0.0756	0.0793	4.78	0.0644	0.0627	2.68	0.0722	0.0714	1.11	0.120	0.122	1.65	0.0944	0.0937	0.744	0.0981	0.0995	1.42
Lead (Pb)-Dissolved	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Lithium (Li)-Dissolved	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Magnesium (Mg)-Dissolved	3.64	3.71	1.90	4.21	4.22	0.237	4.00	3.96	1.01	3.82	3.74	2.12	1.35	1.33	-	1.55	1.55	-
Manganese (Mn)-Dissolved	0.0218	0.0220	0.913	0.0255	0.0245	4.00	0.0261	0.0202	25.5	0.0149	0.0148	0.673	0.00600	0.00616	2.63	0.00469	0.00479	2.11
Mercury (Hg)-Dissolved	< 0.000005	< 0.000005	-	< 0.000005	< 0.000005	-	< 0.000005	< 0.000005	-	< 0.000005	< 0.000005	-	< 0.000005	< 0.000005	-	< 0.000005	< 0.000005	-
Molybdenum (Mo)-Dissolved	0.000570	0.000560	1.77	0.000760	0.000730	4.03	0.000690	0.000670	2.94	0.000630	0.000600	4.88	0.000230	0.000220	-	0.000240	0.000260	-
Nickel (Ni)-Dissolved	0.0000700	0.0000700	-	0.000130	0.000130	-	0.000110	< 0.00005	-	0.000260	0.000250	3.92	0.000560	0.000310	57.5	0.000270	0.000240	-
Phosphorus (P)-Dissolved	< 0.01	< 0.01	-	0.0100	0.0200	-	0.0100	< 0.01	-	< 0.01	< 0.01	-	< 0.01	< 0.01	-	< 0.01	< 0.01	-
Potassium (K)-Dissolved	0.500	0.500	-	0.600	0.600	-	1.00	0.600	-	0.700	0.700	-	< 0.5	< 0.5	-	< 0.5	< 0.5	-
Selenium (Se)-Dissolved	< 0.0006	< 0.0006	-	< 0.0006	< 0.0006	-	< 0.0006	< 0.0006	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-
Silicon (Si)-Dissolved	6.43	6.77	5.15	6.05	6.68	9.90	6.28	6.17	1.77	4.91	4.88	0.613	4.74	4.66	1.70	3.63	3.56	1.95
Silver (Ag)-Dissolved	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Sodium (Na)-Dissolved	3.60	3.70	2.74	4.00	4.00	0	4.00	4.00	0	3.60	3.40	5.71	2.10	2.00	-	< 0.5	< 0.5	-
Strontium (Sr)-Dissolved	0.0841	0.0865	2.81	0.106	0.107	0.939	0.0992	0.0989	0.303	0.0887	0.0886	0.113	0.0388	0.0394	1.53	0.0459	0.0466	1.51
Sulfur (S)-Dissolved	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium (Tl)-Dissolved	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Tin (Sn)-Dissolved	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-
Titanium (Ti)-Dissolved	0.000300	0.000300	-	0.000200	0.000200	-	< 0.0002	< 0.0002	-	0.000600	0.000600	-	0.00170	0.00170	0	0.00160	0.00200	22.2
Uranium (U)-Dissolved	0.000160	0.000160	-	0.000270	0.000260	3.77	0.000210	0.000210	-	0.000170	0.000170	-	0.000140	0.000140	-	0.000100	0.000110	-
Vanadium (V)-Dissolved	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Zinc (Zn)-Dissolved	0.00120	< 0.0005	-	0.0131	0.00710	59.4	0.0178	0.00740	82.5	0.000700	< 0.0005	-	0.00170	0.00270	-	0.00180	< 0.0005	-

Notes:
All measurements are mg/L unless otherwise noted.

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ7			WQ7			WQ7			WQ7			WQ7			WQ7		
Depth	Surface			Surface			Surface			Surface			Surface			Surface		
Date	5/11/2017			11/7/2017			5/16/2018			7/17/2018			9/12/2018			10/24/2018		
LabID	L1926080-4	L1926080-8		L2020333-2	L2020333-6		L2097084-1	L2097084-8		L2132128-1	L2132128-7		L2164448-3	L2164448-4		L2187638-3	L2187638-4	
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Physical Tests																		
pH	7.40	7.38	0.271	7.64	7.73	1.17	7.33	7.35	0.272	7.89	7.83	0.763	8.05	8.06	0.124	7.90	7.90	0
Conductivity	47.4	47.5	0.211	71.8	70.6	1.69	28.3	27.9	1.42	88.6	88.1	0.566	108	108	0	90.7	90.6	0.110
Hardness (as CaCO ₃)	22.7	22.2	2.23	33.0	33.1	0.303	12.5	12.8	2.37	38.5	39.3	2.06	51.1	52.4	2.51	40.0	41.5	3.68
Hardness, Total (as CaCO ₃)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids	70.0	66.0	5.88	73.0	58.0	-	50.0	50.0	0	76.0	75.0	1.32	82.0	85.0	3.59	80.0	74.0	7.79
Total Suspended Solids	12.4	11.6	-	<3.0	3.70	-	46.6	59.3	24.0	<3.0	<3.0	-	<3.0	3.80	-	<3.0	<3.0	-
Turbidity	3.43	3.36	2.06	0.670	0.670	0	8.84	11.8	28.7	0.460	0.450	-	0.490	1.23	-	0.410	0.430	-
Acidity (as CaCO ₃)	2.60	2.60	-	2.50	2.30	-	2.40	3.00	-	1.30	1.30	-	1.20	1.40	-	2.10	2.10	-
Alkalinity, Total (as CaCO ₃)	21.9	22.1	0.909	36.4	36.6	0.548	11.4	11.2	1.77	45.9	45.9	0	56.8	57.6	1.40	47.9	48.0	0.209
Anions and Nutrients																		
Total Kjeldahl Nitrogen	0.311	0.381	20.2	0.137	0.129	-	0.344	0.352	2.30	0.102	0.116	-	0.0950	0.0950	-	0.0770	0.0710	-
Ammonia, Total (as N)	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Bromide (Br)	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	<0.050	-
Chloride (Cl)	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-
Fluoride (F)	0.0270	0.0260	-	0.0470	0.0450	-	0.0270	0.0320	-	0.0440	0.0440	-	0.0500	0.0470	-	0.0450	0.0440	-
Nitrate (as N)	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Nitrite (as N)	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-
Orthophosphate-Dissolved (as P)	0.00210	0.00210	-	0.00290	0.00280	-	0.00300	0.00290	-	0.00430	0.00410	-	0.00510	0.00510	0	0.00380	0.00370	-
Phosphorus (P)-Total	0.0193	0.0176	9.21	0.00790	0.00780	-	0.0473	0.0490	3.53	0.00860	0.00820	-	0.0126	0.0109	14.5	0.00660	0.00690	-
Phosphorus Total Dissolved	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfate (SO ₄)	0.850	0.800	-	2.47	2.47	0	0.620	0.620	-	1.68	1.68	0	2.38	2.20	7.86	2.24	2.24	0
Cyanides																		
Cyanide, Total	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Cyanide, Weak Acid Diss	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Thiocyanate	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-
Organic / Inorganic Carbon																		
Dissolved Organic Carbon	14.8	14.9	0.673	6.72	6.70	0.298	12.3	13.8	11.5	4.73	4.83	2.09	2.98	2.90	2.72	4.39	4.45	1.36
Total Organic Carbon	15.3	15.3	0	6.95	6.81	2.03	13.7	13.9	1.45	5.22	4.78	8.80	3.13	3.19	1.90	4.37	4.10	6.38

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ7			WQ7			WQ7			WQ7			WQ7			WQ7		
Depth	Surface			Surface			Surface			Surface			Surface			Surface		
Date	5/11/2017			11/7/2017			5/16/2018			7/17/2018			9/12/2018			10/24/2018		
LabID	L1926080-4	L1926080-8		L2020333-2	L2020333-6		L2097084-1	L2097084-8		L2132128-1	L2132128-7		L2164448-3	L2164448-4		L2187638-3	L2187638-4	
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Total Metals																		
Aluminum (Al)-Total	0.463	0.488	5.26	0.0611	0.0657	7.26	1.16	1.20	3.39	0.0469	0.0461	1.72	0.0476	0.0662	32.7	0.0215	0.0254	16.6
Antimony (Sb)-Total	<0.00010	<0.00010	0	<0.00010	<0.00010	0	<0.00010	<0.00010	0	<0.00010	<0.00010	0	<0.00010	<0.00010	0	<0.00010	<0.00010	0
Arsenic (As)-Total	0.000680	0.000670	1.48	0.000510	0.000480	-	0.000940	0.000960	2.11	0.000580	0.000560	3.51	0.000620	0.000630	1.60	0.000480	0.000500	-
Barium (Ba)-Total	0.00955	0.00960	0.522	0.00669	0.00643	3.96	0.0146	0.0157	7.26	0.00853	0.00816	4.43	0.00897	0.00970	7.82	0.00671	0.00719	6.91
Beryllium (Be)-Total	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Bismuth (Bi)-Total	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Boron (B)-Total	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-
Cadmium (Cd)-Total	0.0000110	0.0000100	-	0.00000500	<0.0000050	-	0.0000185	0.0000221	-	0.00000640	0.00000850	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-
Calcium (Ca)-Total	6.85	7.06	3.02	8.97	9.40	4.68	4.00	4.19	4.64	11.3	11.6	2.62	15.1	15.0	0.664	12.9	13.7	6.02
Chromium (Cr)-Total	0.000610	0.000800	27.0	0.000360	0.000360	-	0.00166	0.00188	12.4	0.000210	0.000210	-	0.000200	0.000290	-	0.000170	0.000180	-
Cobalt (Co)-Total	0.000160	0.000170	-	<0.00010	<0.00010	-	0.000510	0.000500	1.98	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Copper (Cu)-Total	0.00103	0.00100	-	0.000540	0.000530	-	0.00162	0.00161	-	<0.00070	0.000640	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Iron (Fe)-Total	0.410	0.439	6.83	0.146	0.148	-	1.19	1.26	5.71	0.0890	0.0870	-	0.156	0.178	13.2	0.0900	0.100	-
Lead (Pb)-Total	0.000138	0.000127	-	<0.000050	<0.000050	-	0.000394	0.000493	22.3	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Lithium (Li)-Total	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-
Magnesium (Mg)-Total	1.75	1.78	1.70	2.54	2.39	6.09	1.09	1.08	0.922	2.57	2.48	3.56	3.38	3.46	2.34	2.67	2.81	5.11
Manganese (Mn)-Total	0.0231	0.0209	10.0	0.0131	0.0140	6.64	0.0453	0.0441	2.68	0.00854	0.00870	1.86	0.0134	0.0161	18.3	0.00819	0.00881	7.29
Mercury (Hg)-Total	0.0000100	0.0000100	-	<0.0000050	<0.0000050	-	0.0000127	0.0000137	-	0.00000590	0.0000105	-	<0.0000050	<0.0000050	-	0.00000990	0.00000690	-
Molybdenum (Mo)-Total	0.000297	0.000313	5.25	0.000525	0.000514	2.12	0.000279	0.000310	10.5	0.000675	0.000667	1.19	0.000846	0.000826	2.39	0.000600	0.000629	4.72
Nickel (Ni)-Total	0.000700	0.000710	-	<0.00050	<0.00050	-	0.00135	0.00145	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Phosphorus (P)-Total	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-
Potassium (K)-Total	0.585	0.592	1.19	0.370	0.351	5.27	0.505	0.481	4.87	0.526	0.518	1.53	0.590	0.603	2.18	0.430	0.449	4.32
Selenium (Se)-Total	0.0000610	0.0000710	-	<0.000050	<0.000050	-	<0.000050	0.0000810	-	0.0000830	0.0000910	-	<0.000050	<0.000050	-	<0.000050	0.0000560	-
Silicon (Si)-Total	5.25	5.57	5.91	6.52	6.28	3.75	5.93	6.08	2.50	6.29	6.25	0.638	6.04	5.96	1.33	6.25	6.46	3.30
Silver (Ag)-Total	0.0000120	0.0000130	-	<0.000010	<0.000010	-	0.0000170	0.0000170	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Sodium (Na)-Total	2.30	2.30	-	2.50	2.60	-	<2.0	<2.0	-	3.00	2.90	-	3.70	3.80	-	3.00	3.10	-
Strontium (Sr)-Total	0.0439	0.0451	2.70	0.0672	0.0684	1.77	0.0294	0.0299	1.69	0.0740	0.0740	0	0.0976	0.0927	5.15	0.0709	0.0716	0.982
Sulfur (S)-Total	-	-	-	0.600	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	0.640	0.780	-
Thallium (Tl)-Total	<0.000010	<0.000010	-	<0.000010	<0.000010	-	0.0000110	0.0000130	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Tin (Sn)-Total	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Titanium (Ti)-Total	0.0140	0.0140	-	<0.010	<0.010	-	0.0430	0.0470	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-
Uranium (U)-Total	0.000171	0.000168	1.77	0.000101	0.000111	9.43	0.000296	0.000324	9.03	0.000107	0.000110	2.76	0.000184	0.000176	4.44	0.000108	0.000116	7.14
Vanadium (V)-Total	0.00127	0.00133	-	0.000600	0.000590	-	0.00321	0.00342	6.33	0.000900	0.000840	-	0.000930	0.00105	-	0.000560	0.000640	-
Zinc (Zn)-Total	<0.0030	<0.0030	-	<0.0030	<0.0030	-	0.00420	0.00420	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ7			WQ7			WQ7			WQ7			WQ7			WQ7		
Depth	Surface			Surface			Surface			Surface			Surface			Surface		
Date	5/11/2017			11/7/2017			5/16/2018			7/17/2018			9/12/2018			10/24/2018		
LabID	L1926080-4	L1926080-8		L2020333-2	L2020333-6		L2097084-1	L2097084-8		L2132128-1	L2132128-7		L2164448-3	L2164448-4		L2187638-3	L2187638-4	
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Dissolved Metals																		
Aluminum (Al)-Dissolved	0.173	0.162	6.57	0.0366	0.0378	3.23	0.153	0.158	3.22	0.0155	0.0189	19.8	0.00790	0.00780	-	0.0121	0.0128	-
Antimony (Sb)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Arsenic (As)-Dissolved	0.000460	0.000440	-	0.000450	0.000470	-	0.000390	0.000400	-	0.000470	0.000560	-	0.000560	0.000570	1.77	0.000440	0.000440	-
Barium (Ba)-Dissolved	0.00618	0.00607	1.80	0.00657	0.00640	2.62	0.00381	0.00408	6.84	0.00773	0.00787	1.79	0.00952	0.00960	0.837	0.00736	0.00680	7.91
Beryllium (Be)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Bismuth (Bi)-Dissolved	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Boron (B)-Dissolved	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-
Cadmium (Cd)-Dissolved	0.00000600	<0.0000050	-	0.00000900	<0.0000050	-	0.00000720	0.00000660	-	<0.0000050	0.0000123	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-
Calcium (Ca)-Dissolved	6.49	6.41	1.24	9.64	9.65	0.104	3.69	3.77	2.14	11.2	11.5	2.64	15.1	15.4	1.97	11.9	12.5	4.92
Chromium (Cr)-Dissolved	0.000270	0.000230	-	0.000180	0.000180	-	0.000260	0.000250	-	0.000170	0.000130	-	0.000100	0.000130	-	0.000130	0.000140	-
Cobalt (Co)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Copper (Cu)-Dissolved	0.000730	0.000650	-	0.000510	<0.00050	-	0.000660	0.000660	-	<0.00050	0.000710	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Iron (Fe)-Dissolved	0.152	0.153	0.656	0.102	0.101	-	0.108	0.112	-	0.0510	0.0520	-	0.0900	0.0910	-	0.0770	0.0790	-
Lead (Pb)-Dissolved	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Lithium (Li)-Dissolved	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-
Magnesium (Mg)-Dissolved	1.59	1.50	5.83	2.16	2.19	1.38	0.806	0.820	1.72	2.56	2.56	0	3.28	3.37	2.71	2.48	2.51	1.20
Manganese (Mn)-Dissolved	0.00455	0.00422	7.53	0.0113	0.0110	2.69	0.00546	0.00567	3.77	0.00618	0.00678	9.26	0.0104	0.0105	0.957	0.00726	0.00732	0.823
Mercury (Hg)-Dissolved	0.00000800	0.00000900	-	<0.0000050	<0.0000050	-	0.00000930	0.0000101	-	0.00000580	0.00000780	-	<0.0000050	<0.0000050	-	<0.0000050	0.00000690	-
Molybdenum (Mo)-Dissolved	0.000259	0.000232	-	0.000482	0.000452	6.42	0.000210	0.000210	-	0.000690	0.000663	3.99	0.000819	0.000792	3.35	0.000566	0.000596	5.16
Nickel (Ni)-Dissolved	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	0.000520	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Phosphorus (P)-Dissolved	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-
Potassium (K)-Dissolved	0.542	0.508	6.48	0.437	0.430	1.61	0.326	0.322	1.23	0.569	0.538	5.60	0.630	0.649	2.97	0.437	0.456	4.26
Selenium (Se)-Dissolved	0.0000570	<0.000050	-	<0.000050	0.0000510	-	<0.000050	0.0000630	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Silicon (Si)-Dissolved	4.72	4.70	0.425	6.10	6.21	1.79	3.82	3.95	3.35	5.71	5.86	2.59	5.97	6.00	0.501	5.83	5.87	0.684
Silver (Ag)-Dissolved	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Sodium (Na)-Dissolved	2.10	<2.0	-	2.70	2.60	-	<2.0	<2.0	-	2.90	3.00	-	3.60	3.70	-	2.90	2.90	-
Strontium (Sr)-Dissolved	0.0414	0.0401	3.19	0.0631	0.0626	0.796	0.0239	0.0242	1.25	0.0762	0.0701	8.34	0.0916	0.0927	1.19	0.0715	0.0715	0
Sulfur (S)-Dissolved	-	-	-	0.780	0.760	-	<0.50	<0.50	-	<0.50	0.710	-	0.610	0.510	-	0.840	0.890	-
Thallium (Tl)-Dissolved	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Tin (Sn)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Titanium (Ti)-Dissolved	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-
Uranium (U)-Dissolved	0.000112	0.000107	4.57	0.0000970	0.0000960	1.04	0.000157	0.000159	1.27	0.000115	0.000104	10.0	0.000172	0.000174	1.16	0.000103	0.000107	3.81
Vanadium (V)-Dissolved	0.000540	0.000500	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	0.000660	0.000720	-	0.000610	0.000630	-	<0.00050	<0.00050	-
Zinc (Zn)-Dissolved	<0.0030	<0.0030	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-	<0.0010	0.00150	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-

Notes:
All measurements are mg/L unless otherwise noted.

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ7			WQ7			WQ7			WQ7			WQ7		
Depth	Surface			Surface			Surface			Surface			Surface		
Date	1/29/2019			5/4/2019			6/4/2019			7/6/2020			8/11/2020		
LabID	L2227101-1	L2227101-6		L2269368-1	L2269368-6		L2286702-1	L2286702-5		VA20A9918-001	VA20A9918-005		VA20B2542-003	VA20B2542-005	
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Physical Tests															
pH	7.89	7.97	1.01	7.47	7.58	1.46	7.77	7.82	0.641	7.53	7.51	0.266	7.85	7.82	0.383
Conductivity	102	104	1.94	52.5	51.9	1.15	59.6	54.9	8.21	59.4	59.9	0.838	87.5	87.5	0
Hardness (as CaCO ₃)	47.6	47.3	0.632	24.6	24.5	0.407	25.1	25.0	0.399	27.1	27.5	1.47	39.1	39.4	0.764
Hardness, Total (as CaCO ₃)	-	-	-	-	-	-	-	-	-	28.2	28.4	0.707	40.4	40.4	0
Total Dissolved Solids	71.0	74.0	4.14	59.0	56.0	-	60.0	59.0	-	56.0	54.0	-	77.0	70.0	9.52
Total Suspended Solids	<3.0	<3.0	-	17.2	19.0	9.94	6.40	8.40	-	4.20	4.30	-	<3.0	9.10	-
Turbidity	0.570	0.540	5.41	4.75	4.14	13.7	1.51	1.35	11.2	0.610	0.560	8.55	0.310	0.390	-
Acidity (as CaCO ₃)	2.20	2.10	-	2.20	2.10	-	2.30	1.80	-	2.70	2.80	-	<2.0	<2.0	-
Alkalinity, Total (as CaCO ₃)	52.7	53.1	0.756	24.3	24.4	0.411	28.4	27.0	5.05	29.8	29.3	1.69	42.9	43.3	0.928
Anions and Nutrients															
Total Kjeldahl Nitrogen	0.0600	0.0580	-	0.258	0.245	-	0.235	0.226	-	0.184	0.188	-	0.116	0.120	-
Ammonia, Total (as N)	<0.0050	<0.0050	-	0.00530	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	0.00750	0.00640	-
Bromide (Br)	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	<0.050	-
Chloride (Cl)	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-
Fluoride (F)	0.0440	0.0430	-	0.0410	0.0410	-	0.0410	0.0360	-	0.0350	0.0350	-	0.0410	0.0440	-
Nitrate (as N)	0.0153	0.0135	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Nitrite (as N)	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-
Orthophosphate-Dissolved (as P)	0.00390	0.00380	-	0.00130	0.00150	-	0.00140	0.00180	-	0.00240	0.00230	-	0.00340	0.00400	-
Phosphorus (P)-Total	0.00710	0.00680	-	0.0198	0.0216	8.70	0.00890	0.0101	-	0.00950	0.00980	-	0.00460	0.00560	-
Phosphorus Total Dissolved	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfate (SO ₄)	2.32	2.33	0.430	1.20	1.20	-	1.08	1.01	-	0.800	0.790	-	1.48	1.47	-
Cyanides															
Cyanide, Total	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Cyanide, Weak Acid Diss	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Thiocyanate	<0.50	<0.50	-	0.300	0.290	-	0.240	0.260	-	<0.50	<0.50	-	<0.50	<0.50	-
Organic / Inorganic Carbon															
Dissolved Organic Carbon	2.91	2.84	2.43	11.1	11.3	1.79	9.37	9.55	1.90	9.30	9.41	1.18	5.32	5.18	2.67
Total Organic Carbon	2.83	2.86	1.05	12.7	11.3	11.7	9.29	9.00	3.17	9.20	9.53	3.52	5.80	5.95	2.55

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ7			WQ7			WQ7			WQ7			WQ7		
Depth	Surface			Surface			Surface			Surface			Surface		
Date	1/29/2019			5/4/2019			6/4/2019			7/6/2020			8/11/2020		
LabID	L2227101-1	L2227101-6		L2269368-1	L2269368-6		L2286702-1	L2286702-5		VA20A9918-001	VA20A9918-005		VA20B2542-003	VA20B2542-005	
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Total Metals															
Aluminum (Al)-Total	0.0249	0.0220	12.4	0.299	0.335	11.4	0.133	0.133	0	0.0895	0.104	15.0	0.0460	0.0537	15.4
Antimony (Sb)-Total	<0.00010	<0.00010	0	<0.00010	<0.00010	0	<0.00010	<0.00010	0	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Arsenic (As)-Total	0.000480	0.000460	-	0.000630	0.000650	3.12	0.000500	0.000500	0	0.000540	0.000500	7.69	0.000610	0.000640	4.80
Barium (Ba)-Total	0.00835	0.00739	12.2	0.00706	0.00767	8.28	0.00627	0.00629	0.318	0.00584	0.00580	0.687	0.00759	0.00769	1.31
Beryllium (Be)-Total	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	0.0000240	0.0000220	-	<0.000020	<0.000020	-
Bismuth (Bi)-Total	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Boron (B)-Total	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-
Cadmium (Cd)-Total	<0.0000050	<0.0000050	-	0.00000910	0.00000850	-	<0.0000050	<0.0000050	-	<0.0000050	0.00000560	-	<0.0000050	<0.0000050	-
Calcium (Ca)-Total	13.0	13.0	0	7.56	7.68	1.57	7.41	7.50	1.21	8.33	8.34	0.120	11.7	11.7	0
Chromium (Cr)-Total	0.000190	0.000200	-	0.000440	0.000470	-	<0.00060	<0.00060	-	0.000200	0.000240	-	0.000210	0.000200	-
Cobalt (Co)-Total	<0.00010	<0.00010	-	0.000120	0.000140	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Copper (Cu)-Total	<0.00050	<0.00050	-	0.000770	0.000800	-	0.000590	0.000600	-	<0.00050	0.000540	-	<0.00050	<0.00050	-
Iron (Fe)-Total	<0.20	<0.20	-	0.353	0.384	8.41	0.139	0.135	-	0.118	0.130	9.68	0.108	0.125	14.6
Lead (Pb)-Total	<0.000050	<0.000050	-	0.0000990	0.000126	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Lithium (Li)-Total	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-
Magnesium (Mg)-Total	3.27	3.10	5.34	1.58	1.58	0	1.57	1.62	3.13	1.79	1.84	2.75	2.74	2.70	1.47
Manganese (Mn)-Total	0.0134	0.0128	4.58	0.0166	0.0195	16.1	0.00910	0.00878	3.58	0.00890	0.00919	3.21	0.00924	0.0115	21.8
Mercury (Hg)-Total	<0.0000050	<0.0000050	-	0.00000690	0.00000720	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-
Molybdenum (Mo)-Total	0.000731	0.000653	11.3	0.000378	0.000383	1.31	0.000363	0.000397	8.95	0.000426	0.000343	21.6	0.000622	0.000610	1.95
Nickel (Ni)-Total	<0.00050	<0.00050	-	<0.00050	0.000510	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Phosphorus (P)-Total	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.050	<0.050	-	<0.050	<0.050	-
Potassium (K)-Total	0.490	0.468	4.59	0.448	0.457	1.99	0.369	0.372	0.810	0.341	0.346	-	0.507	0.487	-
Selenium (Se)-Total	0.0000630	<0.000050	-	0.0000610	0.0000570	-	<0.000050	0.0000500	-	<0.000050	0.0000700	-	0.0000630	<0.000050	-
Silicon (Si)-Total	6.19	6.04	2.45	5.38	5.35	0.559	5.38	5.56	3.29	5.65	5.77	2.10	6.40	6.48	1.24
Silver (Ag)-Total	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Sodium (Na)-Total	3.50	3.20	-	2.10	2.20	-	2.30	2.30	-	2.34	2.36	0.851	3.47	3.43	1.16
Strontium (Sr)-Total	0.0882	0.0818	7.53	0.0446	0.0444	0.449	0.0491	0.0505	2.81	0.0523	0.0509	2.71	0.0782	0.0762	2.59
Sulfur (S)-Total	0.720	0.620	-	0.510	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-
Thallium (Tl)-Total	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Tin (Sn)-Total	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Titanium (Ti)-Total	<0.010	<0.010	-	<0.010	0.0110	-	<0.010	<0.010	-	0.00173	0.00195	12.0	0.00125	0.00133	-
Uranium (U)-Total	0.000168	0.000154	8.70	0.000140	0.000154	9.52	0.000127	0.000132	3.86	0.000137	0.000139	1.45	0.000134	0.000136	1.48
Vanadium (V)-Total	0.000520	<0.00050	-	0.00105	0.00117	-	0.000710	0.000720	-	0.000520	0.000580	-	0.000670	0.000670	-
Zinc (Zn)-Total	<0.0030	<0.0030	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ7			WQ7			WQ7			WQ7			WQ7		
Depth	Surface			Surface			Surface			Surface			Surface		
Date	1/29/2019			5/4/2019			6/4/2019			7/6/2020			8/11/2020		
LabID	L2227101-1	L2227101-6		L2269368-1	L2269368-6		L2286702-1	L2286702-5		VA20A9918-001	VA20A9918-005		VA20B2542-003	VA20B2542-005	
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Dissolved Metals															
Aluminum (Al)-Dissolved	0.00980	0.00950	-	0.111	0.113	1.79	0.0627	0.0613	2.26	0.0642	0.0660	2.76	0.0217	0.0229	5.38
Antimony (Sb)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Arsenic (As)-Dissolved	0.000420	0.000440	-	0.000500	0.000490	-	0.000430	0.000450	-	0.000510	0.000510	0	0.000580	0.000590	1.71
Barium (Ba)-Dissolved	0.00757	0.00785	3.63	0.00520	0.00534	2.66	0.00536	0.00514	4.19	0.00571	0.00588	2.93	0.00759	0.00757	0.264
Beryllium (Be)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.000020	<0.000020	-	<0.000020	<0.000020	-
Bismuth (Bi)-Dissolved	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Boron (B)-Dissolved	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-
Cadmium (Cd)-Dissolved	<0.0000050	<0.0000050	-	<0.0000050	0.00000620	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-
Calcium (Ca)-Dissolved	13.8	13.6	1.46	7.14	7.14	0	7.37	7.32	0.681	7.86	7.94	1.01	11.3	11.4	0.881
Chromium (Cr)-Dissolved	0.000140	0.000110	-	0.000230	0.000220	-	0.000240	0.000210	-	0.000180	0.000190	-	0.000180	0.000150	-
Cobalt (Co)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Copper (Cu)-Dissolved	<0.00050	<0.00050	-	0.000620	0.000660	-	0.000550	0.000530	-	0.000460	0.000460	-	0.000360	0.000330	-
Iron (Fe)-Dissolved	0.0790	0.0790	-	0.136	0.138	-	0.0720	0.0710	-	0.0790	0.0830	4.94	0.0810	0.0810	0
Lead (Pb)-Dissolved	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Lithium (Li)-Dissolved	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-
Magnesium (Mg)-Dissolved	3.21	3.21	0	1.64	1.62	1.23	1.62	1.63	0.615	1.82	1.86	2.17	2.61	2.64	1.14
Manganese (Mn)-Dissolved	0.0122	0.0124	1.63	0.00527	0.00542	2.81	0.00554	0.00555	0.180	0.00548	0.00557	1.63	0.00840	0.00833	0.837
Mercury (Hg)-Dissolved	<0.0000050	<0.0000050	-	0.00000550	0.00000520	-	0.00000510	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-
Molybdenum (Mo)-Dissolved	0.000721	0.000699	3.10	0.000352	0.000319	9.84	0.000355	0.000336	5.50	0.000359	0.000346	3.69	0.000540	0.000554	2.56
Nickel (Ni)-Dissolved	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Phosphorus (P)-Dissolved	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.050	<0.050	-	<0.050	<0.050	-
Potassium (K)-Dissolved	0.493	0.490	0.610	0.433	0.448	3.41	0.402	0.398	1.00	0.353	0.364	-	0.477	0.477	-
Selenium (Se)-Dissolved	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	0.0000590	-	<0.000050	0.0000510	-	0.0000830	<0.000050	-
Silicon (Si)-Dissolved	6.35	6.29	0.949	5.20	5.28	1.53	5.55	5.68	2.32	5.36	5.46	1.85	5.87	5.73	2.41
Silver (Ag)-Dissolved	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Sodium (Na)-Dissolved	3.50	3.60	-	2.40	2.40	-	2.20	2.20	-	2.55	2.53	0.787	3.09	3.10	0.323
Strontium (Sr)-Dissolved	0.0839	0.0852	1.54	0.0418	0.0410	1.93	0.0455	0.0443	2.67	0.0526	0.0546	3.73	0.0732	0.0714	2.49
Sulfur (S)-Dissolved	0.590	<0.50	-	0.560	0.570	-	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-
Thallium (Tl)-Dissolved	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Tin (Sn)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Titanium (Ti)-Dissolved	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	0.000700	0.000610	-	<0.00030	<0.00030	-
Uranium (U)-Dissolved	0.000145	0.000145	0	0.000113	0.000123	8.47	0.000115	0.000118	2.58	0.000127	0.000123	3.20	0.000132	0.000130	1.53
Vanadium (V)-Dissolved	<0.00050	<0.00050	-	0.000550	0.000570	-	0.000570	0.000600	-	0.000540	0.000540	-	0.000510	0.000520	-
Zinc (Zn)-Dissolved	<0.0010	<0.0010	-	<0.0010	0.00110	-	<0.0010	<0.0010	-	<0.0010	0.00130	-	<0.0010	<0.0010	-

Notes:
All measurements are mg/L unless otherwise noted.

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ8			WQ8			WQ8			WQ8			WQ8			WQ8		
Depth	Surface			Surface			Surface			Surface			Surface			Surface		
Date	5/24/2011			6/13/2011			3/11/2013			12/9/2014			1/23/2018			12/19/2018		
LabID													L2049224-1	L2049224-5		L2213684-2	L2213684-6	
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Physical Tests																		
pH	8.15	8.08	0.863	7.81	7.82	0.128	7.87	7.88	0.127	7.77	7.79	0.257	8.15	8.22	0.855	7.96	7.98	0.251
Conductivity	146	141	3.48	134	135	0.743	153	153	0	163	167	2.42	155	162	4.42	141	146	3.48
Hardness (as CaCO ₃)	-	-	-	-	-	-	-	-	-	82.8	80.8	2.44	79.3	80.6	1.63	67.9	68.9	1.46
Hardness, Total (as CaCO ₃)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids	-	-	-	-	-	-	92.0	104	12.2	104	116	10.9	105	104	0.957	92.0	93.0	1.08
Total Suspended Solids	5.00	5.00	-	6.00	5.00	-	3.00	< 2	-	<2	<2	-	<3.0	<3.0	-	<3.0	<3.0	-
Turbidity	1.60	1.80	11.8	3.50	3.30	5.88	1.40	0.700	66.7	0.300	0.300	-	0.260	0.260	-	0.720	0.610	16.5
Acidity (as CaCO ₃)	-	-	-	-	-	-	-	-	-	-	-	-	<1.0	<1.0	-	1.50	1.40	-
Alkalinity, Total (as CaCO ₃)	69.0	69.0	0	63.0	62.0	1.60	80.0	79.0	1.26	79.0	79.0	0	78.3	77.4	1.16	74.3	75.7	1.87
Anions and Nutrients																		
Total Kjeldahl Nitrogen	0.180	0.280	-	0.750	1.03	31.5	0.290	0.180	-	0.130	0.110	-	0.241	0.255	-	0.274	0.293	6.70
Ammonia, Total (as N)	< 0.02	< 0.02	-	< 0.02	0.0200	-	< 0.02	< 0.02	-	<0.02	<0.02	-	0.00950	0.00650	-	<0.0050	<0.0050	-
Bromide (Br)	-	-	-	-	-	-	-	-	-	-	-	-	<0.050	<0.050	-	<0.050	<0.050	-
Chloride (Cl)	0.400	0.500	-	0.300	0.300	-	0.500	0.300	-	0.300	0.200	-	<0.50	<0.50	-	<0.50	<0.50	-
Fluoride (F)	0.0800	0.0800	-	0.0700	0.0700	-	0.0800	0.0800	-	0.0900	0.0900	-	0.0550	0.0550	-	0.0600	0.0590	-
Nitrate (as N)	0.0210	0.0180	-	0.00700	< 0.005	-	0.0880	0.0860	2.30	0.103	0.123	17.7	0.0949	0.102	7.21	0.114	0.106	7.27
Nitrite (as N)	< 0.003	< 0.003	-	< 0.003	< 0.003	-	< 0.003	< 0.003	-	<0.003	<0.003	-	<0.0010	<0.0010	-	0.00160	0.00150	-
Orthophosphate-Dissolved (as P)	< 0.003	< 0.003	-	< 0.003	< 0.003	-	< 0.003	< 0.003	-	<0.003	<0.003	-	0.0229	0.0240	4.69	0.0225	0.0213	5.48
Phosphorus (P)-Total	-	-	-	-	-	-	-	-	-	-	-	-	0.0316	0.0286	9.97	0.0309	0.0287	7.38
Phosphorus Total Dissolved	0.00400	0.00400	-	0.0110	0.0110	0	0.0320	0.0270	16.9	0.0230	0.0230	0	-	-	-	-	-	-
Sulfate (SO ₄)	4.40	4.80	8.70	4.00	4.10	2.47	4.40	4.50	2.25	3.80	3.80	0	4.09	4.05	0.983	3.87	3.89	0.515
Cyanides																		
Cyanide, Total	0.00550	0.00900	-	-	-	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Cyanide, Weak Acid Diss	<0.0050	<0.0050	-	-	-	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Thiocyanate	-	-	-	-	-	-	-	-	-	-	-	-	<0.50	<0.50	-	<0.50	<0.50	-
Organic / Inorganic Carbon																		
Dissolved Organic Carbon	10.9	11.2	2.71	9.80	9.90	1.02	7.40	7.40	0	7.10	7.10	0	7.66	8.61	11.7	7.94	7.79	1.91
Total Organic Carbon	7.00	7.30	4.20	10.0	10.0	0	7.50	7.70	2.63	7.10	7.10	0	7.83	7.99	2.02	7.58	7.90	4.13

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ8			WQ8			WQ8			WQ8			WQ8			WQ8		
Depth	Surface			Surface			Surface			Surface			Surface			Surface		
Date	5/24/2011			6/13/2011			3/11/2013			12/9/2014			1/23/2018			12/19/2018		
LabID													L2049224-1	L2049224-5		L2213684-2	L2213684-6	
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Total Metals																		
Aluminum (Al)-Total	0.0390	0.0530	30.4	0.0660	0.0700	5.88	< 0.002	0.00400	-	< 0.002	<0.002	-	<0.0030	<0.0030	-	<0.0030	0.00440	-
Antimony (Sb)-Total	< 0.00005	< 0.00005	0	< 0.00005	< 0.00005	0	< 0.00005	< 0.00005	0	< 0.00005	<0.00005	0	<0.00010	<0.00010	0	<0.00010	<0.00010	0
Arsenic (As)-Total	0.000400	0.000400	-	0.000500	0.000500	0	0.000500	0.000500	0	0.000700	0.000700	0	0.000640	0.000600	6.45	0.000600	0.000590	1.68
Barium (Ba)-Total	0.00571	0.00591	3.44	0.00623	0.00637	2.22	0.00604	0.00613	1.48	0.00517	0.00509	1.56	0.00548	0.00557	1.63	0.00486	0.00514	5.60
Beryllium (Be)-Total	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	<0.0001	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Bismuth (Bi)-Total	-	-	-	-	-	-	-	-	-	-	-	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Boron (B)-Total	0.00300	0.00200	-	0.00200	0.00200	-	< 0.001	< 0.001	-	0.00100	<0.001	-	<0.010	<0.010	-	<0.010	<0.010	-
Cadmium (Cd)-Total	0.0000240	0.0000220	-	< 0.000015	< 0.000015	-	< 0.000015	< 0.000015	-	< 0.000015	<0.000015	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-
Calcium (Ca)-Total	20.5	20.6	0.487	18.1	18.2	0.551	24.1	24.7	2.46	24.2	23.6	2.51	21.6	21.8	0.922	21.0	21.5	2.35
Chromium (Cr)-Total	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	-	< 0.0003	<0.0003	-	<0.00010	0.000120	-	<0.00010	<0.00010	-
Cobalt (Co)-Total	0.0000300	0.0000300	-	0.0000700	0.0000600	-	< 0.00002	< 0.00002	-	< 0.00002	<0.00002	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Copper (Cu)-Total	0.000300	0.000200	-	0.000600	0.000600	0	0.000400	0.000500	-	0.000300	0.000300	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Iron (Fe)-Total	0.0541	0.0693	24.6	0.128	0.123	3.98	0.0140	0.0178	23.9	0.0186	0.0187	0.536	<0.030	<0.030	-	<0.030	<0.030	-
Lead (Pb)-Total	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	<0.00005	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Lithium (Li)-Total	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	<0.001	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-
Magnesium (Mg)-Total	4.61	4.62	0.217	4.39	4.42	0.681	5.43	5.55	2.19	5.42	5.34	1.49	4.99	5.04	0.997	4.72	4.76	0.844
Manganese (Mn)-Total	0.00630	0.00750	17.4	0.0208	0.0194	6.97	0.00137	0.00166	19.1	0.00947	0.00938	0.955	0.00500	0.00563	11.9	0.0105	0.0116	9.95
Mercury (Hg)-Total	< 0.000008	< 0.000008	-	< 0.000008	< 0.000008	-	< 0.000005	< 0.000005	-	< 0.000005	<0.000005	-	<0.0000050	<0.0000050	-	0.00000710	0.00000920	-
Molybdenum (Mo)-Total	0.000460	0.000440	4.44	0.000500	0.000490	2.02	0.000580	0.000590	1.71	0.000540	0.000550	1.83	0.000565	0.000551	2.51	0.000526	0.000524	0.381
Nickel (Ni)-Total	0.000250	0.000280	-	0.000310	0.000300	-	0.000240	0.000260	-	0.000270	0.000250	7.69	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Phosphorus (P)-Total	< 0.02	< 0.02	-	0.0200	0.0200	-	0.0200	0.0200	-	0.0200	0.0300	-	<0.30	<0.30	-	<0.30	<0.30	-
Potassium (K)-Total	0.800	0.800	-	0.800	0.800	-	1.00	1.00	-	0.900	0.900	-	0.863	0.872	1.04	0.819	0.862	5.12
Selenium (Se)-Total	< 0.0006	< 0.0006	-	< 0.0006	< 0.0006	-	< 0.0006	< 0.0006	-	< 0.0001	<0.0001	-	0.0000860	0.0000980	-	0.0000650	0.0000590	-
Silicon (Si)-Total	3.80	3.87	1.83	3.97	4.01	1.00	4.15	4.16	0.241	5.00	4.75	5.13	4.31	4.40	2.07	4.28	4.39	2.54
Silver (Ag)-Total	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	<0.00005	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Sodium (Na)-Total	3.40	3.40	0	3.20	3.20	0	4.10	4.10	0	4.00	4.00	0	4.00	4.00	-	3.40	3.60	-
Strontium (Sr)-Total	0.0920	0.0933	1.40	0.0885	0.0899	1.57	0.107	0.110	2.76	0.105	0.105	0	0.106	0.106	0	0.104	0.105	0.957
Sulfur (S)-Total	-	-	-	-	-	-	-	-	-	-	-	-	1.69	1.50	-	1.63	1.63	-
Thallium (Tl)-Total	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	<0.00005	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Tin (Sn)-Total	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	<0.0001	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Titanium (Ti)-Total	0.00120	0.00160	28.6	0.00210	0.00240	13.3	< 0.0002	< 0.0002	-	< 0.0002	<0.0002	-	<0.010	<0.010	-	<0.010	<0.010	-
Uranium (U)-Total	0.0000900	0.0000900	-	0.000100	0.0000900	-	0.000100	0.000100	-	0.0000900	0.0000800	-	0.0000830	0.0000830	0	0.0000880	0.0000870	1.14
Vanadium (V)-Total	< 0.0001	< 0.0001	-	0.000300	0.000400	-	< 0.00005	< 0.00005	-	0.000680	0.000580	15.9	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Zinc (Zn)-Total	0.00460	0.00230	-	0.00120	0.00110	-	0.00200	0.00560	-	0.00250	0.00250	0	<0.0030	<0.0030	-	<0.0030	<0.0030	-

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ8			WQ8			WQ8			WQ8			WQ8			WQ8		
Depth	Surface			Surface			Surface			Surface			Surface			Surface		
Date	5/24/2011			6/13/2011			3/11/2013			12/9/2014			1/23/2018			12/19/2018		
LabID													L2049224-1	L2049224-5		L2213684-2	L2213684-6	
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Dissolved Metals																		
Aluminum (Al)-Dissolved	-	-	-	0.0180	0.0180	0	< 0.002	< 0.002	-	< 0.002	<0.002	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-
Antimony (Sb)-Dissolved	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	<0.00005	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Arsenic (As)-Dissolved	0.000400	0.000400	-	0.000400	0.000400	-	0.000500	0.000500	0	0.000600	0.000500	18.2	0.000610	0.000590	3.33	0.000570	0.000630	10.0
Barium (Ba)-Dissolved	0.00528	0.00536	1.50	0.00577	0.00586	1.55	0.00554	0.00537	3.12	0.00506	0.00493	2.60	0.00543	0.00552	1.64	0.00485	0.00489	0.821
Beryllium (Be)-Dissolved	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	<0.0001	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Bismuth (Bi)-Dissolved	-	-	-	-	-	-	-	-	-	-	-	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Boron (B)-Dissolved	0.00300	0.00200	-	0.00200	0.00100	-	< 0.001	< 0.001	-	0.00100	<0.001	-	<0.010	<0.010	-	<0.010	<0.010	-
Cadmium (Cd)-Dissolved	< 0.000015	< 0.000015	-	< 0.000015	< 0.000015	-	< 0.000015	< 0.000015	-	< 0.000015	<0.000015	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-
Calcium (Ca)-Dissolved	19.1	19.1	0	17.7	17.7	0	24.1	23.5	2.52	24.2	23.6	2.51	23.0	23.5	2.15	19.2	19.6	2.06
Chromium (Cr)-Dissolved	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	-	< 0.0003	<0.0003	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Cobalt (Co)-Dissolved	< 0.00002	< 0.00002	-	0.0000400	0.0000400	-	< 0.00002	< 0.00002	-	< 0.00002	<0.00002	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Copper (Cu)-Dissolved	0.000300	0.000200	-	0.000600	0.000600	0	0.000400	0.000500	-	0.000300	0.000300	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Iron (Fe)-Dissolved	0.0143	0.0137	4.29	0.0468	0.0438	6.62	0.0105	0.00990	5.88	0.0107	0.00970	9.80	<0.030	<0.030	-	<0.030	<0.030	-
Lead (Pb)-Dissolved	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	<0.00005	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Lithium (Li)-Dissolved	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	<0.001	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-
Magnesium (Mg)-Dissolved	4.33	4.42	2.06	4.12	4.17	1.21	5.43	5.55	2.19	5.42	5.24	3.38	5.29	5.34	0.941	4.83	4.88	1.03
Manganese (Mn)-Dissolved	0.000980	0.000990	1.02	0.0122	0.0107	13.1	0.000590	0.000840	35.0	0.00297	0.00300	1.01	0.00179	0.00204	13.1	0.00246	0.00237	3.73
Mercury (Hg)-Dissolved	< 0.000008	< 0.000008	-	< 0.000008	< 0.000008	-	< 0.000005	< 0.000005	-	< 0.000005	<0.000005	-	<0.0000050	<0.0000050	-	0.00000540	<0.0000050	-
Molybdenum (Mo)-Dissolved	0.000390	0.000420	7.41	0.000490	0.000460	6.32	0.000540	0.000550	1.83	0.000470	0.000480	2.11	0.000488	0.000497	1.83	0.000509	0.000491	3.60
Nickel (Ni)-Dissolved	0.000190	0.000180	-	0.000310	0.000300	3.28	0.000240	0.000250	-	0.000240	0.000230	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Phosphorus (P)-Dissolved	< 0.01	< 0.01	-	< 0.01	0.0100	-	0.0200	0.0200	-	0.0200	0.0200	-	<0.30	<0.30	-	<0.30	<0.30	-
Potassium (K)-Dissolved	0.700	0.700	-	0.700	0.700	-	1.00	1.00	-	0.900	0.900	-	0.854	0.856	0.234	0.837	0.851	1.66
Selenium (Se)-Dissolved	< 0.0006	< 0.0006	-	< 0.0006	< 0.0006	-	< 0.0006	< 0.0006	-	< 0.0001	<0.0001	-	0.000102	0.000119	-	0.0000520	<0.000050	-
Silicon (Si)-Dissolved	3.66	3.53	3.62	3.62	3.70	2.19	4.10	4.16	1.45	5.00	4.75	5.13	4.15	4.19	0.959	4.28	4.20	1.89
Silver (Ag)-Dissolved	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	<0.00005	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Sodium (Na)-Dissolved	3.20	3.20	0	3.00	3.00	0	4.10	4.10	0	4.00	3.90	2.53	4.20	4.20	-	3.70	3.80	-
Strontium (Sr)-Dissolved	0.0919	0.0919	0	0.0871	0.0871	0	0.106	0.105	0.948	0.102	0.101	0.985	0.111	0.113	1.79	0.0962	0.0952	1.04
Sulfur (S)-Dissolved	-	-	-	-	-	-	-	-	-	-	-	-	1.70	1.77	-	1.33	1.49	-
Thallium (Tl)-Dissolved	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	<0.00005	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Tin (Sn)-Dissolved	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	<0.0001	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Titanium (Ti)-Dissolved	0.000300	0.000300	-	0.000500	0.000500	-	< 0.0002	< 0.0002	-	< 0.0002	<0.0002	-	<0.010	<0.010	-	<0.010	<0.010	-
Uranium (U)-Dissolved	0.0000800	0.0000800	-	0.0000800	0.0000800	-	0.0000900	0.0000900	-	0.0000800	0.0000800	-	0.0000860	0.0000890	3.43	0.0000850	0.0000830	2.38
Vanadium (V)-Dissolved	< 0.00005	< 0.00005	-	0.000220	0.000180	-	< 0.00005	< 0.00005	-	< 0.00005	<0.00005	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Zinc (Zn)-Dissolved	0.00460	< 0.0005	-	0.00120	0.00110	-	0.00200	0.00560	-	0.00250	0.00250	0	<0.0030	0.00360	-	<0.0010	<0.0010	-

Notes:
All measurements are mg/L unless otherwise noted.

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ9			WQ9			WQ9			WQ9			WQ9			WQ9		
Depth	Surface			Surface			Surface			Surface			Surface			Surface		
Date	3/30/2011			4/19/2011			5/30/2011			5/22/2012			12/10/2012			5/28/2013		
LabID																		
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Physical Tests																		
pH	8.23	8.25	0.243	8.17	8.18	0.122	7.70	7.72	0.259	7.88	7.86	0.254	7.84	7.80	0.512	7.87	7.83	0.510
Conductivity	157	159	1.27	155	154	0.647	98.0	98.0	0	113	114	0.881	148	148	0	104	104	0
Hardness (as CaCO ₃)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardness, Total (as CaCO ₃)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids	-	-	-	-	-	-	-	-	-	-	-	-	92.0	80.0	14.0	64.0	88.0	31.6
Total Suspended Solids	3.00	4.00	-	4.00	5.00	-	4.00	3.00	-	10.0	9.00	-	< 2	< 2	-	7.00	6.00	-
Turbidity	1.50	2.40	46.2	2.20	2.60	16.7	2.90	3.10	6.67	2.20	1.80	20.0	1.30	1.10	16.7	2.30	17.0	152
Acidity (as CaCO ₃)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Total (as CaCO ₃)	82.0	82.0	0	76.0	77.0	1.31	43.0	43.0	0	54.0	55.0	1.83	77.0	77.0	0	50.0	50.0	0
Anions and Nutrients																		
Total Kjeldahl Nitrogen	0.280	0.250	-	0.670	0.580	14.4	0.580	0.180	-	0.200	0.210	-	0.200	0.250	-	0.140	0.170	-
Ammonia, Total (as N)	< 0.02	< 0.02	-	< 0.02	< 0.02	-	< 0.02	< 0.02	-	< 0.02	< 0.02	-	< 0.02	< 0.02	-	< 0.02	< 0.02	-
Bromide (Br)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride (Cl)	0.300	0.300	-	0.400	0.300	-	0.200	0.300	-	0.900	1.10	20.0	0.700	0.700	0	0.500	0.600	18.2
Fluoride (F)	0.0900	0.100	-	0.0800	0.0900	-	0.0800	0.0800	-	0.0800	0.0900	-	0.0700	0.0700	-	0.0400	0.0400	-
Nitrate (as N)	0.0690	0.0650	5.97	0.0420	0.0420	0	< 0.005	< 0.005	-	< 0.005	< 0.005	-	0.113	0.103	9.26	0.0260	0.0320	20.7
Nitrite (as N)	< 0.003	< 0.003	-	< 0.003	< 0.003	-	0.0190	0.0150	23.5	0.00500	0.00400	-	0.0140	0.0200	-	< 0.003	< 0.003	-
Orthophosphate-Dissolved (as P)	< 0.003	< 0.003	-	< 0.003	< 0.003	-	< 0.003	< 0.003	-	< 0.003	< 0.003	-	< 0.003	< 0.003	-	< 0.003	< 0.003	-
Phosphorus (P)-Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phosphorus Total Dissolved	0.0120	0.00800	40.0	0.0160	0.0160	0	0.0130	0.0120	8.00	0.00700	0.00800	13.3	0.0140	0.0130	7.41	< 0.001	< 0.001	-
Sulfate (SO ₄)	4.70	5.10	8.16	4.40	4.50	2.25	5.10	5.30	3.85	3.60	4.30	17.7	5.50	5.60	1.80	3.40	3.30	2.99
Cyanides																		
Cyanide, Total	-	-	-	<0.0050	<0.0050	-	-	-	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Cyanide, Weak Acid Diss	-	-	-	<0.0050	<0.0050	-	-	-	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Thiocyanate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Organic / Inorganic Carbon																		
Dissolved Organic Carbon	5.50	5.60	1.80	2.60	5.10	64.9	12.1	12.5	3.25	9.40	9.40	0	6.60	6.80	2.99	9.70	9.70	0
Total Organic Carbon	5.90	6.00	1.68	5.90	7.20	19.8	25.1	37.1	38.6	9.40	9.40	0	6.60	6.80	2.99	9.70	9.70	0

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ9			WQ9			WQ9			WQ9			WQ9			WQ9		
Depth	Surface			Surface			Surface			Surface			Surface			Surface		
Date	3/30/2011			4/19/2011			5/30/2011			5/22/2012			12/10/2012			5/28/2013		
LabID																		
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Total Metals																		
Aluminum (Al)-Total	0.0420	0.0314	28.9	0.0740	0.0510	36.8	0.172	0.178	3.43	0.145	0.210	36.6	0.00900	0.0160	-	0.121	0.134	10.2
Antimony (Sb)-Total	< 0.00005	< 0.00005	0	< 0.00005	< 0.00005	0	< 0.00005	< 0.00005	0	< 0.00005	0.0000500	-	< 0.00005	< 0.00005	0	0.0000500	< 0.00005	-
Arsenic (As)-Total	0.000400	0.000300	-	0.000200	0.000200	-	0.000500	0.000500	0	0.000500	0.000500	0	0.000500	0.000500	0	0.000500	0.000500	0
Barium (Ba)-Total	0.00806	0.00792	1.75	0.00913	0.00848	7.38	0.00770	0.00784	1.80	0.00761	0.00812	6.48	0.00719	0.00737	2.47	0.00652	0.00661	1.37
Beryllium (Be)-Total	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-
Bismuth (Bi)-Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron (B)-Total	0.00100	< 0.001	-	< 0.001	0.00100	-	0.00200	0.00200	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-	0.00100	0.00100	-
Cadmium (Cd)-Total	< 0.000015	< 0.000015	-	< 0.000015	< 0.000015	-	< 0.000015	< 0.000015	-	< 0.000015	< 0.000015	-	< 0.000015	< 0.000015	-	< 0.000015	< 0.000015	-
Calcium (Ca)-Total	21.7	22.0	1.37	21.8	21.7	0.460	13.7	13.9	1.45	15.0	15.1	0.664	22.2	22.6	1.79	18.3	17.7	3.33
Chromium (Cr)-Total	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	-	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	-
Cobalt (Co)-Total	< 0.00005	< 0.00005	-	0.0000700	0.0000500	-	0.0000700	0.0000800	-	0.0000400	0.0000500	-	0.0000300	0.0000300	-	0.0000400	0.0000500	-
Copper (Cu)-Total	0.000200	0.000200	-	0.000400	0.000300	-	0.000700	0.000800	13.3	0.00190	0.000400	-	< 0.0001	< 0.0001	-	0.000600	0.000600	0
Iron (Fe)-Total	0.199	0.179	10.6	0.295	0.241	20.1	0.193	0.209	7.96	0.235	0.281	17.8	0.134	0.133	0.749	0.169	0.181	6.86
Lead (Pb)-Total	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	0.000140	0.0000600	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Lithium (Li)-Total	< 0.005	< 0.005	-	< 0.005	< 0.005	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Magnesium (Mg)-Total	4.89	4.83	1.23	4.95	5.00	1.01	3.19	3.24	1.56	3.53	3.58	1.41	5.06	5.19	2.54	3.83	3.71	3.18
Manganese (Mn)-Total	0.0292	0.0268	8.57	0.0424	0.0372	13.1	0.0101	0.0103	1.96	0.0284	0.0293	3.12	0.0258	0.0264	2.30	0.0180	0.0197	9.02
Mercury (Hg)-Total	< 0.000008	< 0.000008	-	< 0.000008	< 0.000008	-	< 0.000008	< 0.000008	-	< 0.000005	< 0.000005	-	< 0.000005	< 0.000005	-	< 0.000005	< 0.000005	-
Molybdenum (Mo)-Total	0.000670	0.000680	1.48	0.000700	0.000720	2.82	0.000500	0.000490	2.02	0.000500	0.000500	0	0.000590	0.000600	1.68	0.000490	0.000500	2.02
Nickel (Ni)-Total	0.000200	0.000300	-	0.000320	0.000290	-	0.000450	0.000480	-	0.000120	0.000200	-	0.000190	0.000200	-	0.000160	0.000150	-
Phosphorus (P)-Total	0.0200	< 0.02	-	0.0300	0.0300	-	0.0200	0.0200	-	0.0200	0.0300	-	0.0200	< 0.02	-	< 0.01	< 0.01	-
Potassium (K)-Total	0.900	0.900	-	0.900	0.900	-	0.900	0.900	-	0.700	0.700	-	0.900	0.900	-	0.800	0.800	-
Selenium (Se)-Total	< 0.0006	< 0.0006	-	< 0.0006	< 0.0006	-	< 0.0006	< 0.0006	-	< 0.0006	< 0.0006	-	< 0.0006	< 0.0006	-	< 0.0001	< 0.0001	-
Silicon (Si)-Total	5.16	5.10	1.17	5.40	5.10	5.71	4.58	4.39	4.24	4.58	4.64	1.30	5.02	5.22	3.91	3.97	3.98	0.252
Silver (Ag)-Total	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Sodium (Na)-Total	3.70	3.60	2.74	3.80	3.80	0	2.60	2.60	0	2.90	2.90	0	3.80	3.80	0	3.20	3.10	3.17
Strontium (Sr)-Total	0.112	0.112	0	0.116	0.115	0.866	0.0735	0.0738	0.407	0.0791	0.0796	0.630	0.103	0.104	0.966	0.0782	0.0804	2.77
Sulfur (S)-Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium (Tl)-Total	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Tin (Sn)-Total	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-
Titanium (Ti)-Total	0.00240	0.00170	34.1	0.00400	0.00250	46.2	0.00420	0.00460	9.09	0.00510	0.00760	39.4	0.000400	0.000500	-	0.00420	0.00420	0
Uranium (U)-Total	0.000140	0.000140	-	0.000160	0.000150	-	0.000110	0.000110	-	0.000110	0.000110	-	0.000120	0.000120	-	0.000100	0.000100	-
Vanadium (V)-Total	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	0.000400	0.000500	-	0.000400	0.000600	-	< 0.0001	< 0.0001	-	< 0.00005	< 0.00005	-
Zinc (Zn)-Total	0.00400	< 0.001	-	0.00200	0.00280	-	0.00490	0.00220	-	0.00300	0.000500	-	0.000800	0.000700	-	< 0.0005	< 0.0005	-

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ9			WQ9			WQ9			WQ9			WQ9			WQ9		
Depth	Surface			Surface			Surface			Surface			Surface			Surface		
Date	3/30/2011			4/19/2011			5/30/2011			5/22/2012			12/10/2012			5/28/2013		
LabID																		
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Dissolved Metals																		
Aluminum (Al)-Dissolved	< 0.002	< 0.002	-	0.0310	0.00200	-	0.0660	0.0580	12.9	0.0480	0.0450	6.45	0.00300	0.00300	-	0.0530	0.0520	1.90
Antimony (Sb)-Dissolved	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Arsenic (As)-Dissolved	0.000400	0.000300	-	0.000200	0.000100	-	0.000400	0.000400	-	0.000300	0.000400	-	0.000500	0.000400	-	0.000500	0.000500	0
Barium (Ba)-Dissolved	0.00733	0.00777	5.83	0.00863	0.00790	8.83	0.00661	0.00647	2.14	0.00668	0.00664	0.601	0.00719	0.00737	2.47	0.00595	0.00600	0.837
Beryllium (Be)-Dissolved	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-
Bismuth (Bi)-Dissolved	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron (B)-Dissolved	< 0.001	< 0.001	-	< 0.001	< 0.001	-	0.00200	0.00200	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Cadmium (Cd)-Dissolved	< 0.000015	< 0.000015	-	< 0.000015	< 0.000015	-	< 0.000015	< 0.000015	-	< 0.000015	< 0.000015	-	< 0.000015	< 0.000015	-	< 0.000015	< 0.000015	-
Calcium (Ca)-Dissolved	21.3	22.0	3.23	21.2	20.7	2.39	13.3	13.2	0.755	14.4	14.2	1.40	22.2	22.6	1.79	18.3	17.7	3.33
Chromium (Cr)-Dissolved	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	-
Cobalt (Co)-Dissolved	0.0000300	0.0000300	-	0.0000600	0.0000400	-	0.0000400	0.0000300	-	< 0.00002	< 0.00002	-	< 0.00002	< 0.00002	-	< 0.00002	< 0.00002	-
Copper (Cu)-Dissolved	0.000200	0.000200	-	0.000300	0.000200	-	0.000800	0.000600	28.6	0.00190	0.000200	-	< 0.0001	< 0.0001	-	0.000500	0.000400	-
Iron (Fe)-Dissolved	0.0851	0.0817	4.08	0.246	0.117	71.1	0.0845	0.0755	11.3	0.0778	0.0807	3.66	0.0838	0.0820	2.17	0.0743	0.0751	1.07
Lead (Pb)-Dissolved	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	0.000140	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Lithium (Li)-Dissolved	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Magnesium (Mg)-Dissolved	4.83	4.70	2.73	4.78	5.00	4.50	3.01	2.97	1.34	3.23	3.20	0.933	5.06	5.19	2.54	3.83	3.71	3.18
Manganese (Mn)-Dissolved	0.0219	0.0214	2.31	0.0393	0.0334	16.2	0.00475	0.00464	2.34	0.0144	0.0147	2.06	0.0236	0.0238	0.844	0.0102	0.0103	0.976
Mercury (Hg)-Dissolved	< 0.000008	< 0.000008	-	< 0.000008	< 0.000008	-	< 0.000008	< 0.000008	-	< 0.000005	< 0.000005	-	< 0.000005	< 0.000005	-	< 0.000005	< 0.000005	-
Molybdenum (Mo)-Dissolved	0.000610	0.000640	4.80	0.000600	0.000590	1.68	0.000400	0.000400	0	0.000350	0.000350	0	0.000510	0.000590	14.5	0.000110	0.000100	-
Nickel (Ni)-Dissolved	0.000200	0.000230	-	0.000260	0.000230	-	0.000330	0.000320	3.08	0.000380	0.000200	-	0.000140	0.000140	-	< 0.00005	< 0.00005	-
Phosphorus (P)-Dissolved	0.0100	0.0100	-	0.0200	0.0100	-	0.0100	0.0100	-	< 0.01	< 0.01	-	0.0200	0.0100	-	< 0.01	< 0.01	-
Potassium (K)-Dissolved	0.900	0.900	-	0.900	0.900	-	0.800	0.800	-	0.700	0.700	-	0.900	0.900	-	0.800	0.800	-
Selenium (Se)-Dissolved	< 0.0006	< 0.0006	-	< 0.0006	< 0.0006	-	< 0.0006	< 0.0006	-	< 0.0006	< 0.0006	-	< 0.0006	< 0.0006	-	< 0.0001	< 0.0001	-
Silicon (Si)-Dissolved	5.07	4.96	2.19	4.90	4.61	6.10	4.13	4.18	1.20	4.58	4.64	1.30	5.02	5.22	3.91	3.97	3.89	2.04
Silver (Ag)-Dissolved	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Sodium (Na)-Dissolved	3.60	3.50	2.82	3.60	3.80	5.41	2.50	2.40	-	2.90	2.90	0	3.80	3.80	0	3.20	3.10	3.17
Strontium (Sr)-Dissolved	0.107	0.110	2.76	0.109	0.107	1.85	0.0680	0.0675	0.738	0.0791	0.0790	0.127	0.101	0.104	2.93	0.0635	0.0619	2.55
Sulfur (S)-Dissolved	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium (Tl)-Dissolved	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Tin (Sn)-Dissolved	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-
Titanium (Ti)-Dissolved	0.000300	0.000300	-	0.00160	0.000300	-	0.00100	0.000700	-	0.000800	0.00120	-	< 0.0002	< 0.0002	-	0.000900	0.00100	-
Uranium (U)-Dissolved	0.000120	0.000130	-	0.000150	0.000150	-	0.000110	0.000100	-	0.0000700	0.0000700	-	0.000100	0.000100	-	0.0000900	0.0000900	-
Vanadium (V)-Dissolved	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-	0.000240	0.000200	-	0.000270	0.000260	3.77	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Zinc (Zn)-Dissolved	0.00390	0.000900	-	0.00200	0.00280	-	0.00490	0.000900	-	0.00300	< 0.0005	-	< 0.0005	0.000700	-	< 0.0005	< 0.0005	-

Notes:
All measurements are mg/L unless otherwise noted.

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ9			WQ9			WQ9			WQ9			WQ9			WQ9		
Depth	Surface			Surface			Surface			Surface			Surface			Surface		
Date	7/2/2014			9/7/2016			10/17/2017			12/11/2017			5/30/2018			1/27/2020		
LabID				L1826303-10	L1826303-6		L2009845-3	L2009845-6		L2034610-3	L2034610-6		L2104479-3	L2104479-5		VA20A0960-003	VA20A0960-005	
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Physical Tests																		
pH	7.72	7.69	0.389	7.72	7.90	2.30	8.04	8.04	0	7.85	7.83	0.255	7.96	8.00	0.501	7.96	7.97	0.126
Conductivity	128	126	1.57	82.0	123	40.0	127	127	0	133	141	5.84	120	119	0.837	147	147	0
Hardness (as CaCO ₃)	65.1	65.9	1.22	37.9	60.4	45.8	57.5	58.6	1.89	65.1	63.9	1.86	56.3	55.4	1.61	70.7	71.6	1.26
Hardness, Total (as CaCO ₃)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	66.2	66.4	0.302
Total Dissolved Solids	64.0	96.0	40.0	80.0	98.0	20.2	80.0	85.0	6.06	98.0	98.0	0	100	100	0	97.0	97.0	0
Total Suspended Solids	<2	<2	-	<3.0	<3.0	-	<3.0	3.70	-	<3.0	<3.0	-	5.30	5.70	-	<3.0	<3.0	-
Turbidity	0.900	1.00	10.5	0.480	1.29	-	2.01	1.96	2.52	0.850	0.680	22.2	1.84	2.23	19.2	0.680	0.680	0
Acidity (as CaCO ₃)	-	-	-	2.20	2.10	-	1.80	2.20	-	2.30	2.90	-	2.20	2.00	-	2.50	2.40	-
Alkalinity, Total (as CaCO ₃)	61.0	62.0	1.63	43.7	65.0	39.2	62.5	62.7	0.319	71.1	71.4	0.421	59.8	60.9	1.82	69.7	70.6	1.28
Anions and Nutrients																		
Total Kjeldahl Nitrogen	0.270	0.200	-	0.181	0.327	-	0.293	0.262	11.2	0.256	0.276	7.52	0.319	0.303	5.14	0.271	0.246	-
Ammonia, Total (as N)	<0.02	<0.01	-	<0.0050	0.00640	-	0.00630	0.00590	-	0.00800	0.00760	-	0.00800	0.00780	-	0.0143	0.00790	-
Bromide (Br)	-	-	-	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	<0.050	-
Chloride (Cl)	0.300	0.400	-	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-
Fluoride (F)	0.0700	0.0700	-	0.0420	0.0540	-	0.0530	0.0520	-	0.0520	0.0520	-	0.0530	0.0520	-	0.0590	0.0580	-
Nitrate (as N)	<0.005	0.0100	-	<0.0050	0.00690	-	<0.0050	<0.0050	-	0.0520	0.0521	0.192	<0.0050	<0.0050	-	0.0755	0.0746	1.20
Nitrite (as N)	<0.003	<0.003	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-
Orthophosphate-Dissolved (as P)	0.00400	0.00500	-	0.00360	0.00310	-	0.00250	0.00270	-	0.0119	0.0129	8.06	0.00620	0.00600	3.28	0.0158	0.0157	0.635
Phosphorus (P)-Total	-	-	-	0.00910	0.0186	-	0.0128	0.00960	-	0.0208	0.0216	3.77	0.0207	0.0220	6.09	0.0294	0.0358	19.6
Phosphorus Total Dissolved	<0.010	<0.010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfate (SO ₄)	3.00	3.20	6.45	1.44	3.31	-	3.70	3.70	0	3.75	3.74	0.267	3.20	3.32	3.68	4.08	4.02	1.48
Cyanides																		
Cyanide, Total	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Cyanide, Weak Acid Diss	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Thiocyanate	-	-	-	-	-	-	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-
Organic / Inorganic Carbon																		
Dissolved Organic Carbon	7.80	7.90	1.27	7.01	9.66	31.8	6.53	6.61	1.22	7.57	7.40	2.27	10.0	10.1	0.995	7.29	7.07	3.06
Total Organic Carbon	7.90	7.90	0	6.90	9.86	35.3	6.67	6.60	1.06	7.55	8.25	8.86	10.6	10.2	3.85	8.17	8.13	0.491

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ9			WQ9			WQ9			WQ9			WQ9			WQ9		
Depth	Surface			Surface			Surface			Surface			Surface			Surface		
Date	7/2/2014			9/7/2016			10/17/2017			12/11/2017			5/30/2018			1/27/2020		
LabID				L1826303-10	L1826303-6		L2009845-3	L2009845-6		L2034610-3	L2034610-6		L2104479-3	L2104479-5		VA20A0960-003	VA20A0960-005	
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Total Metals																		
Aluminum (Al)-Total	0.0170	0.0230	30.0	0.0381	0.0228	50.2	0.0534	0.0578	7.91	0.0289	0.0246	16.1	0.0632	0.0616	2.56	0.0153	0.0173	12.3
Antimony (Sb)-Total	< 0.00005	<0.00005	0	<0.00010	<0.00010	0	<0.00010	<0.00010	0	<0.00010	<0.00010	0	<0.00010	<0.00010	0	<0.00010	<0.00010	-
Arsenic (As)-Total	0.000600	0.000600	0	0.000630	0.000760	18.7	0.000700	0.000680	2.90	0.000620	0.000620	0	0.000620	0.000660	6.25	0.000580	0.000680	15.9
Barium (Ba)-Total	0.0105	0.00856	20.4	0.00748	0.00726	2.99	0.00888	0.00769	14.4	0.00710	0.00720	1.40	0.00648	0.00631	2.66	0.00690	0.00700	1.44
Beryllium (Be)-Total	< 0.0001	<0.0001	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00020	<0.00020	-
Bismuth (Bi)-Total	-	-	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Boron (B)-Total	< 0.001	<0.001	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-
Cadmium (Cd)-Total	< 0.000015	<0.000015	-	<0.000050	<0.000050	-	0.00000700	0.0000120	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Calcium (Ca)-Total	< 0.5	19.6	-	11.9	19.2	46.9	17.0	16.8	1.18	20.2	21.0	3.88	16.0	15.9	0.627	19.1	19.2	0.522
Chromium (Cr)-Total	< 0.0003	<0.0003	-	0.000210	0.000150	-	0.000160	0.000200	-	0.000110	0.000120	-	0.000160	0.000230	-	0.000120	<0.00010	-
Cobalt (Co)-Total	< 0.00002	0.0000300	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Copper (Cu)-Total	< 0.0001	0.0000500	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	0.000570	0.000620	-	<0.00050	<0.00050	-
Iron (Fe)-Total	< 0.0001	0.127	-	0.119	0.184	-	0.245	0.226	8.07	0.134	0.132	-	0.116	0.119	-	0.106	0.100	5.83
Lead (Pb)-Total	< 0.00005	<0.00005	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Lithium (Li)-Total	< 0.001	<0.001	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-
Magnesium (Mg)-Total	< 0.50	4.13	-	2.41	3.79	44.5	4.10	3.77	8.39	4.40	4.46	1.35	3.83	3.83	0	4.48	4.50	0.445
Manganese (Mn)-Total	< 0.00005	0.0209	-	0.00932	0.0261	94.7	0.0275	0.0257	6.77	0.0233	0.0238	2.12	0.0153	0.0154	0.651	0.0142	0.0146	2.78
Mercury (Hg)-Total	< 0.000005	<0.000005	-	<0.000050	<0.000050	-	<0.000050	<0.000025	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Molybdenum (Mo)-Total	< 0.00005	0.000400	-	0.000558	0.000660	16.7	0.000632	0.000676	6.73	0.000623	0.000591	5.27	0.000509	0.000501	1.58	0.000586	0.000604	3.03
Nickel (Ni)-Total	< 0.00005	<0.00005	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Phosphorus (P)-Total	< 0.01	0.0100	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.050	<0.050	-
Potassium (K)-Total	< 0.5	0.800	-	0.467	0.707	40.9	0.801	0.748	6.84	0.760	0.764	0.525	0.770	0.744	3.43	0.788	0.796	1.01
Selenium (Se)-Total	< 0.0001	<0.0001	-	0.0000530	0.0000890	-	0.0000790	0.0000760	-	0.0000700	0.0000850	-	0.0000570	0.0000510	-	0.0000740	0.0000800	-
Silicon (Si)-Total	< 0.01	3.80	-	6.08	3.12	64.3	4.42	4.46	0.901	4.62	4.75	2.77	4.05	3.56	12.9	5.23	5.03	3.90
Silver (Ag)-Total	< 0.00005	<0.00005	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Sodium (Na)-Total	< 0.5	3.20	-	2.90	3.10	-	3.30	3.40	-	3.70	3.70	-	3.10	3.10	-	3.62	3.65	0.825
Strontium (Sr)-Total	< 0.000005	0.0911	-	0.0754	0.0997	27.8	0.0912	0.0875	4.14	0.102	0.102	0	0.0810	0.0799	1.37	0.101	0.101	0
Sulfur (S)-Total	-	-	-	-	-	-	1.60	1.38	-	1.31	1.06	-	0.780	0.940	-	1.48	1.26	-
Thallium (Tl)-Total	< 0.00005	<0.00005	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Tin (Sn)-Total	< 0.0001	<0.0001	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Titanium (Ti)-Total	< 0.0002	0.000800	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	0.000640	0.000560	-
Uranium (U)-Total	< 0.00005	0.0000900	-	0.000122	0.000105	15.0	0.000114	0.0000930	20.3	0.000106	0.000111	4.61	0.0000950	0.0000970	2.08	0.000107	0.000104	2.84
Vanadium (V)-Total	< 0.00005	0.000570	-	0.000560	0.000520	-	0.000510	0.000700	-	<0.00050	<0.00050	-	0.000550	0.000890	-	<0.00050	<0.00050	-
Zinc (Zn)-Total	< 0.0005	0.00250	-	<0.0030	<0.0030	-	<0.0030	0.00390	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ9			WQ9			WQ9			WQ9			WQ9			WQ9		
Depth	Surface			Surface			Surface			Surface			Surface			Surface		
Date	7/2/2014			9/7/2016			10/17/2017			12/11/2017			5/30/2018			1/27/2020		
LabID				L1826303-10	L1826303-6		L2009845-3	L2009845-6		L2034610-3	L2034610-6		L2104479-3	L2104479-5		VA20A0960-003	VA20A0960-005	
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Dissolved Metals																		
Aluminum (Al)-Dissolved	0.00600	0.00600	-	0.0248	0.00770	-	0.00610	0.00610	-	0.00540	0.00600	-	0.0207	0.0196	5.46	0.00470	0.00400	-
Antimony (Sb)-Dissolved	< 0.00005	<0.00005	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Arsenic (As)-Dissolved	0.000500	0.000500	0	0.000560	0.000750	29.0	0.000570	0.000570	0	0.000520	0.000550	5.61	0.000550	0.000540	1.83	0.000520	0.000580	10.9
Barium (Ba)-Dissolved	0.00655	0.00654	0.153	0.00720	0.00714	0.837	0.00811	0.00706	13.8	0.00648	0.00722	10.8	0.00627	0.00599	4.57	0.00725	0.00705	2.80
Beryllium (Be)-Dissolved	< 0.0001	<0.0001	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.000020	<0.000020	-
Bismuth (Bi)-Dissolved	-	-	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Boron (B)-Dissolved	< 0.001	<0.001	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-
Cadmium (Cd)-Dissolved	< 0.000015	<0.000015	-	<0.0000050	<0.0000050	-	0.00000600	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-
Calcium (Ca)-Dissolved	18.9	19.1	1.05	11.4	17.9	44.4	16.4	17.1	4.18	19.0	18.4	3.21	16.2	16.0	1.24	20.5	21.1	2.88
Chromium (Cr)-Dissolved	< 0.0003	<0.0003	-	0.000160	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Cobalt (Co)-Dissolved	< 0.00002	<0.00002	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Copper (Cu)-Dissolved	0.000400	0.000500	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	0.000510	<0.00050	-	0.000540	0.000330	-
Iron (Fe)-Dissolved	0.0808	0.0794	1.75	0.0820	0.113	-	0.0970	0.0850	-	0.0720	0.0760	-	0.0550	0.0540	-	0.0620	0.0600	3.28
Lead (Pb)-Dissolved	< 0.00005	<0.00005	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Lithium (Li)-Dissolved	< 0.001	<0.001	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-
Magnesium (Mg)-Dissolved	4.08	4.13	1.22	2.30	3.80	49.2	4.06	3.88	4.53	4.25	4.34	2.10	3.86	3.74	3.16	4.75	4.60	3.21
Manganese (Mn)-Dissolved	0.0162	0.0160	1.24	0.00596	0.0181	101	0.0158	0.0151	4.53	0.0172	0.0179	3.99	0.00924	0.00862	6.94	0.0120	0.0118	1.68
Mercury (Hg)-Dissolved	< 0.000005	<0.000005	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-
Molybdenum (Mo)-Dissolved	0.000330	0.000340	2.99	0.000521	0.000614	16.4	0.000593	0.000594	0.168	0.000548	0.000571	4.11	0.000524	0.000499	4.89	0.000554	0.000562	1.43
Nickel (Ni)-Dissolved	< 0.00005	<0.00005	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Phosphorus (P)-Dissolved	< 0.01	<0.01	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.30	<0.30	-	<0.050	<0.050	-
Potassium (K)-Dissolved	0.700	0.700	-	0.450	0.733	47.8	0.776	0.739	4.88	0.730	0.754	3.23	0.769	0.747	2.90	0.796	0.780	2.03
Selenium (Se)-Dissolved	< 0.0001	<0.0001	-	<0.000050	0.0000560	-	0.0000630	0.0000530	-	0.0000650	0.0000580	-	0.0000640	0.0000620	-	0.0000720	0.0000580	-
Silicon (Si)-Dissolved	3.74	3.80	1.59	5.89	2.96	66.2	3.97	4.27	7.28	4.68	4.67	0.214	4.21	4.05	3.87	4.94	4.98	0.806
Silver (Ag)-Dissolved	< 0.00005	<0.00005	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Sodium (Na)-Dissolved	3.20	3.20	0	2.80	3.00	-	3.30	3.40	-	3.40	3.50	-	3.00	2.90	-	3.62	3.69	1.92
Strontium (Sr)-Dissolved	0.0881	0.0869	1.37	0.0710	0.0923	26.1	0.0861	0.0855	0.699	0.103	0.100	2.96	0.0801	0.0787	1.76	0.0982	0.102	3.80
Sulfur (S)-Dissolved	-	-	-	-	-	-	1.33	1.30	-	0.870	1.04	-	0.750	0.730	-	1.21	1.17	-
Thallium (Tl)-Dissolved	< 0.00005	<0.00005	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Tin (Sn)-Dissolved	< 0.0001	<0.0001	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Titanium (Ti)-Dissolved	0.000300	0.000200	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.00030	<0.00030	-
Uranium (U)-Dissolved	0.0000800	0.000130	-	0.000106	0.0000900	16.3	0.0000930	0.0000830	11.4	0.0000900	0.0000990	9.52	0.0000890	0.0000910	2.22	0.000101	0.000104	2.93
Vanadium (V)-Dissolved	0.000100	0.000110	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Zinc (Zn)-Dissolved	0.00120	0.00250	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-	<0.0010	<0.0010	-

Notes:
All measurements are mg/L unless otherwise noted.

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ9			WQ9			WQ9		
Depth	Surface			Surface			Surface		
Date	5/7/2020			5/20/2020			8/17/2020		
LabID	VA20A6218-003	VA20A6218-005		VA20A6869-002	VA20A6869-006		VA20B3033-003	VA20B3033-005	
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Physical Tests									
pH	7.70	7.73	0.389	7.77	7.78	0.129	8.03	7.99	0.499
Conductivity	114	115	0.873	103	103	0	134	131	2.26
Hardness (as CaCO ₃)	55.9	53.9	3.64	49.3	49.9	1.21	62.6	61.7	1.45
Hardness, Total (as CaCO ₃)	54.5	54.7	0.366	49.2	47.6	3.31	64.0	63.8	0.313
Total Dissolved Solids	89.0	90.0	1.12	88.0	87.0	1.14	99.0	101	2.00
Total Suspended Solids	<3.0	4.80	-	5.80	6.20	-	8.70	4.90	-
Turbidity	1.15	0.960	18.0	1.59	1.42	11.3	16.7	5.46	101
Acidity (as CaCO ₃)	<2.0	<2.0	-	2.00	<2.0	-	<2.0	<2.0	-
Alkalinity, Total (as CaCO ₃)	53.5	54.5	1.85	52.4	53.3	1.70	65.3	65.3	0
Anions and Nutrients									
Total Kjeldahl Nitrogen	0.296	0.287	3.09	0.302	0.303	0.331	0.831	0.733	12.5
Ammonia, Total (as N)	0.00500	0.00720	-	<0.0050	0.0123	-	0.0283	0.0282	0.354
Bromide (Br)	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	<0.050	-
Chloride (Cl)	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-
Fluoride (F)	0.0510	0.0510	-	0.0480	0.0490	-	0.0610	0.0650	-
Nitrate (as N)	0.0273	0.0243	-	<0.0050	<0.0050	-	0.00640	0.00860	-
Nitrite (as N)	0.00240	0.00140	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-
Orthophosphate-Dissolved (as P)	0.00980	0.0100	2.02	0.00490	0.00490	-	<0.0010	<0.0010	-
Phosphorus (P)-Total	0.0236	0.0224	5.22	0.0205	0.0220	7.06	0.0663	0.0436	41.3
Phosphorus Total Dissolved	-	-	-	-	-	-	-	-	-
Sulfate (SO ₄)	3.38	3.36	0.593	2.91	2.90	0.344	3.62	3.60	0.554
Cyanides									
Cyanide, Total	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Cyanide, Weak Acid Diss	<0.0050	<0.0050	-	<0.0050	<0.0050	-	<0.0050	<0.0050	-
Thiocyanate	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-
Organic / Inorganic Carbon									
Dissolved Organic Carbon	9.63	9.48	1.57	10.4	10.3	0.966	8.75	8.53	2.55
Total Organic Carbon	9.75	10.0	2.53	10.2	10.2	0	9.67	9.60	0.727

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ9			WQ9			WQ9		
Depth	Surface			Surface			Surface		
Date	5/7/2020			5/20/2020			8/17/2020		
LabID	VA20A6218-003	VA20A6218-005		VA20A6869-002	VA20A6869-006		VA20B3033-003	VA20B3033-005	
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Total Metals									
Aluminum (Al)-Total	0.0699	0.0323	73.6	0.0908	0.0921	1.42	0.0284	0.0331	15.3
Antimony (Sb)-Total	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Arsenic (As)-Total	0.000550	0.000510	7.55	0.000600	0.000540	10.5	0.000730	0.000720	1.38
Barium (Ba)-Total	0.00717	0.00587	19.9	0.00632	0.00661	4.49	0.00793	0.00796	0.378
Beryllium (Be)-Total	<0.000020	<0.000020	-	<0.000020	<0.000020	-	<0.000020	<0.000020	-
Bismuth (Bi)-Total	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Boron (B)-Total	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-
Cadmium (Cd)-Total	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-
Calcium (Ca)-Total	16.1	16.1	0	14.0	13.8	1.44	18.8	18.8	0
Chromium (Cr)-Total	0.000190	0.000110	-	0.000190	0.000240	-	0.000120	0.000140	-
Cobalt (Co)-Total	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Copper (Cu)-Total	0.000530	<0.00050	-	0.000570	0.000520	-	0.000500	<0.00050	-
Iron (Fe)-Total	0.113	0.0540	70.7	0.138	0.130	5.97	0.150	0.150	0
Lead (Pb)-Total	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Lithium (Li)-Total	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-
Magnesium (Mg)-Total	3.48	3.51	0.858	3.46	3.19	8.12	4.10	4.08	0.489
Manganese (Mn)-Total	0.0177	0.0102	53.8	0.0163	0.0158	3.12	0.0272	0.0258	5.28
Mercury (Hg)-Total	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-
Molybdenum (Mo)-Total	0.000534	0.000463	14.2	0.000531	0.000484	9.26	0.000715	0.000700	2.12
Nickel (Ni)-Total	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Phosphorus (P)-Total	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	0.0610	-
Potassium (K)-Total	0.775	0.746	3.81	0.682	0.674	1.18	0.812	0.817	0.614
Selenium (Se)-Total	0.0000640	<0.000050	-	<0.000050	0.0000770	-	0.0000800	0.0000680	-
Silicon (Si)-Total	4.61	4.69	1.72	4.46	4.53	1.56	4.55	4.58	0.657
Silver (Ag)-Total	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Sodium (Na)-Total	2.84	3.31	15.3	2.64	2.62	0.760	3.40	3.24	4.82
Strontium (Sr)-Total	0.0812	0.0897	9.95	0.0720	0.0694	3.68	0.0966	0.0981	1.54
Sulfur (S)-Total	1.32	1.19	-	1.00	1.16	-	1.07	1.21	-
Thallium (Tl)-Total	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Tin (Sn)-Total	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Titanium (Ti)-Total	0.00195	0.000570	-	0.00214	<0.00240	-	0.000940	0.00130	-
Uranium (U)-Total	0.0000910	0.0000900	1.10	0.000111	0.000108	2.74	0.0000980	0.0000940	4.17
Vanadium (V)-Total	0.000530	<0.00050	-	0.000560	0.000550	-	0.000560	0.000580	-
Zinc (Zn)-Total	<0.0030	<0.0030	-	<0.0030	<0.0030	-	<0.0030	<0.0030	-

Appendix G: Relative Percent Difference (RPD) Results for Stream Water Quality Duplicates, Blackwater Gold Project

Site	WQ9			WQ9			WQ9		
Depth	Surface			Surface			Surface		
Date	5/7/2020			5/20/2020			8/17/2020		
LabID	VA20A6218-003	VA20A6218-005		VA20A6869-002	VA20A6869-006		VA20B3033-003	VA20B3033-005	
QAQC	Regular	Replicate	RPD%	Regular	Replicate	RPD%	Regular	Replicate	RPD%
Dissolved Metals									
Aluminum (Al)-Dissolved	0.0339	0.0646	62.3	0.0443	0.0459	3.55	0.00850	0.00830	2.38
Antimony (Sb)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Arsenic (As)-Dissolved	0.000510	0.000540	5.71	0.000520	0.000530	1.90	0.000630	0.000630	0
Barium (Ba)-Dissolved	0.00618	0.00674	8.67	0.00624	0.00639	2.38	0.00745	0.00725	2.72
Beryllium (Be)-Dissolved	<0.000020	<0.000020	-	<0.000020	<0.000020	-	<0.000020	<0.000020	-
Bismuth (Bi)-Dissolved	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Boron (B)-Dissolved	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-
Cadmium (Cd)-Dissolved	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-
Calcium (Ca)-Dissolved	16.2	15.7	3.13	14.2	14.4	1.40	18.5	18.3	1.09
Chromium (Cr)-Dissolved	0.000110	0.000140	-	0.000120	0.000110	-	<0.00010	<0.00010	-
Cobalt (Co)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Copper (Cu)-Dissolved	0.000450	0.000640	-	0.000490	0.000460	-	0.000400	0.000440	-
Iron (Fe)-Dissolved	0.0560	0.103	59.1	0.0670	0.0650	3.03	0.0840	0.0820	2.41
Lead (Pb)-Dissolved	<0.000050	<0.000050	-	<0.000050	<0.000050	-	<0.000050	<0.000050	-
Lithium (Li)-Dissolved	<0.0010	<0.0010	-	<0.0010	<0.0010	-	<0.0010	<0.0010	-
Magnesium (Mg)-Dissolved	3.72	3.58	3.84	3.37	3.38	0.296	3.95	3.88	1.79
Manganese (Mn)-Dissolved	0.0100	0.0184	59.2	0.00849	0.00843	0.709	0.0186	0.0180	3.28
Mercury (Hg)-Dissolved	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-	<0.0000050	<0.0000050	-
Molybdenum (Mo)-Dissolved	0.000484	0.000548	12.4	0.000509	0.000510	0.196	0.000628	0.000643	2.36
Nickel (Ni)-Dissolved	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Phosphorus (P)-Dissolved	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	<0.050	-
Potassium (K)-Dissolved	0.778	0.766	1.55	0.721	0.723	0.277	0.778	0.757	2.74
Selenium (Se)-Dissolved	<0.000050	<0.000050	-	0.0000840	<0.000050	-	0.0000510	0.0000780	-
Silicon (Si)-Dissolved	4.58	4.60	0.436	4.44	4.62	3.97	4.49	4.44	1.12
Silver (Ag)-Dissolved	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Sodium (Na)-Dissolved	3.02	3.14	3.90	2.95	2.90	1.71	3.22	3.15	2.20
Strontium (Sr)-Dissolved	0.0798	0.0881	9.89	0.0753	0.0819	8.40	0.101	0.0977	3.32
Sulfur (S)-Dissolved	1.26	1.31	-	1.08	1.09	-	1.12	1.08	-
Thallium (Tl)-Dissolved	<0.000010	<0.000010	-	<0.000010	<0.000010	-	<0.000010	<0.000010	-
Tin (Sn)-Dissolved	<0.00010	<0.00010	-	<0.00010	<0.00010	-	<0.00010	<0.00010	-
Titanium (Ti)-Dissolved	0.000680	0.00168	-	0.000600	0.000570	-	<0.00030	<0.00030	-
Uranium (U)-Dissolved	0.0000860	0.0000940	8.89	0.000106	0.000103	2.87	0.000103	0.000100	2.96
Vanadium (V)-Dissolved	<0.00050	<0.00050	-	<0.00050	<0.00050	-	<0.00050	<0.00050	-
Zinc (Zn)-Dissolved	0.00110	<0.0010	-	<0.0010	0.00190	-	<0.0010	<0.0010	-

Notes:

All measurements are mg/L unless otherwise noted.